

*USDA-ARS Collection  
of Entomopathogenic  
Fungal Cultures*

*ARSEf*

# **Beauveria**



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*Includes 4832 isolates*

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# New nomenclatural rules bring new challenges, and new taxonomic revisions for entomopathogenic fungi

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The previous (2007) version of this introductory material for ARSEF catalogs sought to explain some of the phylogenetically-based rationale for major changes to the taxonomy of many key fungal entomopathogens, especially those involving some key conidial and sexual genera of the ascomycete order Hypocreales. Phylogenetic revisions of the taxonomies of entomopathogenic fungi continued to appear, and the results of these revisions are reflected in the ARSEF catalog as quickly and completely as we can do so.

As many of people dealing with entomopathogenic fungi are already aware, there has been one still recent event that has a more far-reaching and pervasive influence whose magnitude still remains to be fully appreciated, but that leaves much of the mycological world (including insect mycology) semi paralyzed by uncertainty and worried about the extent and impacts of changes that still remain unformalized and, hence, a continuing subject for speculation and prediction. At the 2011 International Botanical Congress in Melbourne (Australia), however, a far-reaching nomenclatural revolution was imposed on the fungal world as the result of the abandonment of the existing dual nomenclatural standard that allowed separate, valid names for anamorphic and teleomorphic stages of pleomorphic fungi. This dual nomenclatural system was replaced by a new standard allowing only *one* correct name for any pleomorphic fungus regardless of how many morphs might have been previously and validly recognized for that fungus. The new rule (also known as One Fungus = One Name, or, even more concisely, 1F=1N) has deeply split mycologists into opposed camps greeting the new rules with either cheers or jeers. Whether one supports or opposes this change (for the record, I strongly object to this change), these basic points are indisputable and must be accepted (whether happily or not):

- Dual nomenclature is no longer recognized (now and for the indefinite future).
- 1F=1N is the ***only*** nomenclatural standard applicable for the nomenclature of pleomorphic fungi.
- The main impacts of 1F=1N are apparent at the rank of genera.
- After the competing possible names are evaluated, a ***single*** correct generic name will be chosen by decisions of committees as defined by the International Association for Plant Taxonomy (IAPT) which oversees the ***International Code of Nomenclature for algae, fungi and plants (ICN; McNeill et al. 2012*** or online at <http://www.iapt-taxon.org/nomen/main.php>).
- The use of the specified correct names, once fully confirmed, is obligatory and ***must*** be followed because all such names will be treated as if they have been conserved against all possible alternative names.
- Other taxonomic changes (especially below the generic level)—e.g., when the chosen correct generic name is of a different gender from that which it

replaces, specific epithets must be changed to reflect the newer generic gender as when *Paecilomyces farinosus* became *Isaria farinosa*.

- Some very familiar, cherished generic names will disappear, and the traditional generic circumscriptions for pleomorphic fungi will expand and be revised to reflect all phylogenetically related morphs for their included taxa.

**How correct names will be chosen:** The ultimate selection of correct names over all possible competing names will depend on a number of sequential actions by a significant number of persons in a series of committees, and will be subject to all of the difficulties that routinely accompany committee actions. The exact set of actions that will be occurring still remain uncertain in many quarters. For fungi in the Hypocreales (the entomopathogens most affected by the new rule and also raising the greatest concerns for insect pathologists), there is a world-wide group of mycologists with strong taxonomic/systematics expertise who will consider the demonstrated phylogenies of these fungi, assemble lists of generic names that appear to apply to monophyletic groups of taxa, and that will formally propose a set of choices of correct genera (and their synonyms) to the IAPT's Nomenclature Committee for Fungi. Once this committee has cast their votes to accept (or to modify) any of the proposed choices, the lists of accepted and rejected names will be sent forward to the General Committee of the IAPT for ratification, and then to the Nomenclature Session of the next International Botanical Congress (the next such meeting will be in 2017, in Beijing; any reports from the Committee for Fungi that miss the deadlines for this next Congress would be passed on to the following Congress in 2023 (wherever that may be held). No nomenclatural changes or decisions of any type become completely official until they have been accepted by majority votes during the Nomenclature Session at an International Botanical Congress and then ratified by a plenary vote of the Congress participants at that Congress. It is interesting to note that the only constitutive reason for holding any International Botanical Congress is actually for holding these Nomenclatural Sessions (before the main Congress) and the final, obligatory vote on the acceptance of the report from the Nomenclatural Session during the closing plenary session of the Congress.

The selection of which name among competing possibilities will be selected as correct is not entirely arbitrary, but it is also necessary to remember that it will be a matter of consensus opinion among the members of the committees that will consider the proposals coming to them. The criteria that are supposed to be used for ultimately choosing the names that will be used are to be based in the first place on priority of publication (which name is the oldest available name). There is no longer any automatic preference in the Code to choose names as correct that are typified by teleomorphs; names for conidial and sexual states are to be treated on an equal basis for purposes of selecting the correct name.

It is apparent that even now (early in 2014), there is still a great deal of uncertainty among mycologists about exactly how to handle names of pleomorphic fungi during this transitional period from the defunct dual nomenclatural system to the new rule. Hawksworth (2012) provides what may be the most comprehensive opinion about how to proceed from this point, but it is only one opinion about how the mechanics should proceed.

Changes to the International Code of Nomenclature (ICN) for botanical and related taxa are supposed to result in greater stability and predictability for the names of organisms covered by these rules. Whether the newly adopted rules do this remains a source of active and heated controversy. It probably is fair to say that a new stability will be an eventual result of these new rules, and that within another decade many of the fundamental arguments about the value of these changes will have been settled. I will note that the names for the entomopathogenic hypocrealean fungi (which comprise the vast majority of fungi in the ARSEF culture collection) are among the fungi most drastically affected by this dramatic change in the ICN rules. While nomenclatural stability will eventually come, it will still be a number of years before that stabilization process has been completed and before the resulting changes are fully incorporated into the scientific literature. It is probable that all or, at least, the great majority of the basic changes outlined here will be ready for final ratification during the 2017 International Botanical Congress in Beijing.

Just as there is enormous confusion and controversy still about whether the abandonment of dual nomenclature for the 1F=1N rule was a good and necessary change or will prove to be a superfluous and destructive catastrophe, there are many analyses covering a range of opinions from opposed to and troubled by the change (e.g., **Korf 2005** precedes the adoption of the new rules but raises important and pertinent issues; **Gams et al. 2011, 2012**) to those who seem to be cautiously and a bit vigilantly supportive (e.g., **Braun 2012**) to those leading full-throated cheers for these changes (**Hawksworth 2011; Hibbett & Taylor 2013**) to even a suggestion that the naming of fungi may cause more problems than it solves (**Money 2013**).

**ARSEF responses to taxonomic revisions:** The identifications in the ARSEF catalog have always incorporated new taxa and appropriately revised classifications as soon as the collection staff can confirm the correct new identifications for ARSEF holdings. We make every attempt in the catalog to note specifically when those identifications are based on genomic sequence data. For taxa where extensive molecular revisions have occurred, those isolates with genomically confirmed identifications—for example, for isolates of *Beauveria bassiana* and *Metarhizium anisopliae* in their molecularly redefined, phylogenetically narrowed, strict senses (**sensu stricto**)—are listed in the catalog as these species; isolates that have not been molecularly confirmed are placed in separate listings for these species in their broad senses (**sensu lato**).

## GENERAL AND PHYLOGENETIC RECLASSIFICATIONS OF FUNGI

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (**James et al. 2006**). The second publication (**Hibbett et al. 2007**) provided many of the necessary taxonomic readjustments that were indicated by the phylogenetic studies. The ITS locus sequence has been adopted as a supposedly universal biological bar code gene (**Schoch et al. 2012**) because of its wide usefulness for a vast range of fungi; however, reality has consistently indicated that the ITS sequence has very little usefulness for the identification of fungi in some important groups of ascomycete (**especially including** taxa in the order Hypocreales). As is noted here, however, there have been many later phylogenetic studies that are important for the taxonomy and systematics of entomopathogenic fungi. Some of these major studies involving entomopathogens from the order Hypocreales are listed here by anamorphic or teleomorphic generic name:

*Beauveria* — **Rehner et al. 2011; Kepler et al. 2017, Khonsanit et al., 2020**

*Fusarium* — **O'Donnell et al. 2012**

*Isaria* - **Mongkolsamrit et al., 2018**

*Metarhizium* — **Bischoff et al. 2009; Kepler & Rehner 2013; Kepler et al. 2014**

*Metacordyceps* — **Kepler et al. 2012**

*Polycephalomyces* — **Kepler et al. 2013**

Table 1. UPDATES for probable outcomes under 1F=1N standards for which genera of entomopathogens in Hypocreales are likely to be treated as ‘correct’ differing (where underlined) from those suggested in RA Humber’s (2012) poster presented at the annual meeting of the Society for Invertebrate Pathology in Buenos Aires, AR.

### Family Clavicipitaceae

Humber (2012)

*Metarhizium* (syn. *Metacordyceps*, *Nomuraea*, *Pochonia*, *Rotiferophthora*, etc.)

*Aschersonia* (syn. *Hypocrella*)

Other aschersonioid genera;

*Moelleriella*, *Orbiocrella*, *Regiocrella*, *Samuelsia*

Updated (see Kepler et al. 2014)

*Metarhizium* (syn. *Chamaeleomyces*, *Metacordyceps*, *Nomuraea*)

*Pochonia*

*Metapochonia*

*Rotiferophthora*

*Aschersonia* (syn. *Hypocrella*)

Other aschersonioid genera;

*Moelleriella*, *Orbiocrella*, *Regiocrella*, *Samuelsia*

### Family Cordycipitaceae

Humber (2012)

*Cordyceps* (syn. *Beauveria*, *Isaria*, *Lecanicillium*, *Evlachovaea*, *Microhilum*, *Simplicillium*, etc.)

*Torrubiella* (syn. *Akanthomyces*, *Gibellula*, *Granulomanus*, *Pseudogibellula*)

*Ascopolyporus*

*Conoidiocrella*

Updated (see Kepler et al. 2017)\*

*Cordyceps* (synonyms *Isaria*, *Microhilum*, *Evlachovaea*)

*Beauveria*

*Gibellula* (synonym: *Granulomanus*)

*Hevansia*

*Ascopolyporus*

*Conoidiocrella*

*Simplicillium*

### Family Ophiocordycipitaceae

Humber (2012)

*Elaphocordyceps* (synonym *Tolypocladium*)

*Ophiocordyceps* (synonyms *Hirsutella*<sup>2</sup>, *Hymenostilbe*, *Paraisaria*, *Sorosporella*, *Syngliocladium*)

Updated (see Quandt et al. 2014)\*

*Ophiocordyceps* (synonyms *Hirsutella*, *Hymenostilbe*, *Paraisaria*, *Sorosporella*, *Syngliocladium*)

*Purpureocillium*

*Tolypocladium* (synonym *Elaphocordyceps*)

**Table 2. Phylum Entomophthoromycota (Humber 2012)**

Class Basidiobolomycetes	
Order Basidiobolales	
Family Basidiolaceae	<i>Basidiobolus</i> , <i>Schizangiella</i> <sup>1</sup> , <i>Drechslerosporium</i> <sup>1</sup>
Class Neozygitomycetes	
Order Neozygitales	
Family Neozygitaceae	<i>Neozygites</i> , <i>Apterivorax</i> , <i>Thaxterosporium</i>
Class Entomophthoromycetes	
Order Entomophthorales	
Family Ancylistaceae	<i>Ancylistes</i> , <i>Conidiobolus</i> <sup>2</sup> , <i>Macrobotophthora</i>
Family Completoriaceae	<i>Completozia</i>
Family Entomophthoraceae	
Subfamily Entomophthoroideae	<i>Entomophthora</i> , <i>Entomophaga</i> , <i>Eryniopsis</i> , <i>Massospora</i> <sup>4</sup>
Subfamily Erynioideae <sup>3</sup>	<i>Erynia</i> , <i>Furia</i> , <i>Orthomyces</i> , <i>Pandora</i> , <i>Strongwellsea</i> , <i>Zoophthora</i>
Family Meristacraceae <sup>5</sup>	<i>Meristacrum</i> , <i>Tabanomyces</i>

<sup>1</sup> Genus with phylogenetic support but still awaiting formal description.

<sup>2</sup> Phylogenetic data indicate this genus must be revised and split.

<sup>3</sup> Phylogenetic data support *Zoophthora*, but distinctions among other genera remain uncertain.

<sup>4</sup> Subfamily Massosporoideae proposed by **Keller & Petrini (2005)** is not phylogenetically supported.

<sup>5</sup> Two previously included genera—*Ballocephala* and *Zygnemomyces*—have been excluded from Entomophthoromycota and reclassified in subphylum Kickxellomycotina (see **Humber 2012**).

## FLAGELLATE FUNGI AND FUNGAL ALLIES

The removal of the Oomycetes (biflagellate water molds whose zoospores have one whiplash and one tinsel flagellum) from the true fungi to the class Peronosporomycetes in the kingdom Straminipila (also known as kingdom Chromista) has been widely accepted within mycology for several decades now. There are, however, a small number of water molds that produce uniflagellate zoospores (with a single posterior whiplash flagellum) that have traditionally been treated in the Chytridiomycota. The massive phylogenetic review of fungi (**James et al. 2006**) known under the All-Fungal Tree of Life (AFTOL) Project resulted in indicating that a large group of taxa—including the entomopathogenic genera *Coelomomyces*, *Coelomycidium*, and *Myiophagus*—needed to be removed from the Chytridiomycota; these semi-terrestrial chytrids with golden-brown resistant sporangia and complex life histories were reclassified by **Hibbett et al. (2007)** into the newer kingdom Blastocladiomycota.

## ENTOMOPHTHOROMYCOTA: A NEW PHYLUM\*

The phylogenetically driven reclassification of all fungi (**Hibbett et al., 2007**) resulted in the abandonment of the phylum Zygomycota (as well as the subphylum Zygomycotina and class Zygomycetes) because these long-recognized taxa were finally proven to be distinctly polyphyletic. A series of subphyla *not assigned to any phylum* were described in **Hibbett et al. (2007)** while placing arbuscular mycorrhizal fungi (Glomales) in a clearly distinct phylum, Glomeromycota. Since that initial formal dispersal of zygomycete fungi, the new (still unassigned) subphylum Mortierellomycotina was described (**Hoffmann et al. 2011**). It was always understood that it was probable that further phylogenetic studies on these unassigned subphyla of zygomycetous fungi could eventually result in raising each of these subphyla to phylum ranking. In the case of the Entomophthoromycotina, these 'missing' phylogenetic studies have been

completed in a sufficiently convincing manner (**Gryganskyi et al. 2012a,b**) to support the description of the phylum Entomophthoromycota (Humber 2012) with a new and phylogenetically revised classification of entomophthoroid fungi into three classes (see Table 2).

\* A study by **Spatafora et al. (2016)** utilizing genome-scale data to analyze zygomycete fungi, proposed the creation of a new phylum, **Zoopagomycota**, with subphyla Entomophthoromycotina, Kickxellomycotina, and Zoopagomycotina. The authors rejected use of the name Zygomycota since zygospore formation is not a synapomorphy, but a sympleisiomorphic trait (i.e., trait shared by common ancestors of Zoopagomycota and other phyla). The phylum name Zoopagomycota was selected over other possible names, including Entomophthoromycota, because of its broader and more inclusive meaning. This new proposal retained the three classes in the subphylum Entomophthoromycotina proposed by **Humber (2012)**.

\* Updates by LA Castrillo (June 2020)

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# ARS Collection of Entomopathogenic Fungal Cultures

## History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures, and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2016 as the Emerging Pests and Pathogens Research Unit (EPPRU). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

EPPRU operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

## Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS EPPRU and state the ARSEF accession numbers of these strains. We would greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. **Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution. Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other culture collections.**

## Depositing and Exchanging Cultures

EPPRU and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection—particularly strains used in published studies—and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

**Prior to shipping cultures from countries outside the United States** contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

**When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:**

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is required***)
4. Date and site of collection. (*This information is required*)
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

## Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis, after consultation with the curator. This service is an important function of ARSEF and is provided without charge, but is generally limited to initial identification based on morphological characters. *We do not provide free identification requiring multi-locus sequencing.*

## Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the EPPRU is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

## Ordering Information

Please send all requests for isolates directly to the Acting Curator (Louela A. Castrillo):

ARS Collection of Entomopathogenic Fungal Cultures  
Robert W. Holley Center for Agriculture & Health  
538 Tower Rd.  
Ithaca, NY 14853-2901

Telephone: [+1] 607 255-7008  
**OR** Email: Louela.Castrillo@usda.gov

### **Academic, Government, and Other Nonprofit Institutions**

1–12 isolates [up to 24 per calendar year]

13 or more isolates per order [25 or more per calendar year]

**contact Curator**

Users from nonprofit institutions can receive up to twelve isolates in any 6 month period, and up to 24 cultures in any calendar year.

### **Commercial and Industrial Institutions**

1–12 isolates [per calendar year]

Users from for profit institutions can receive up to twelve isolates in any calendar year.

## Terms of Shipment

**All recipients of cultures are requested to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.**

We request confirmation of receipt and viability of cultures shipped. Inviable strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF nor EPPRU is liable for damages arising from the misidentification of strains.

## Interpretation of Strain Accession Data

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

### ***Beauveria bassiana* (Balsamo) Vuillemin**

**2828 M Feng (MD8903). *Metopolophium dirhodum* [Homoptera: Aphididae] on spring wheat. 21 Jul 89. USA: Parma, Idaho.**

2828	ARSEF accession number.
M Feng (MD8903)	Depositor and depositor's reference or accession number.
<i>Metopolophium dirhodum</i> [Homoptera: Aphididae]	Original host [host's order and family]
On spring wheat	The substrate on which the host was found
21 Jul 89	Date of accession or receipt by ARSEF.
USA: Parma, Idaho	Country of origin followed by the locality and state.

### ***Conidiobolus thromboides* Drechsler**

**73 [CSIRO EM534; FPMI 28] RG Kenneth (3040)←ATCC (24419)←DM MacLeod←G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd Jan 18 1976. France: Val-de-Marne, La Varenne.**

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
←ATCC (24419)←DM MacLeod←G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
<i>Rhopalosiphum insertum</i> [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.

### ***Hirsutella thompsonii* Fisher**

**137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptruta oleivora* [Acari: Eriophyidae]. Jan 1 1970. USA: Orlando, Florida.**

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
<i>Phyllocoptruta oleivora</i> [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

## Abbreviations

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <[http://wdcm.nig.ac.jp/WDCHomePage\\_text.html](http://wdcm.nig.ac.jp/WDCHomePage_text.html)>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS EPRU Research Unit, Robert W. Holley Center for Agriculture & Health, Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Geéticos e Biotecnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates <i>may</i> be transferred to DAOM.

GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK
INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	The Pennsylvania State University, 211 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Department of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada



List of strains by genus: *Beauveria* spp.

**Beauveria sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Almost all strains listed here closely resemble *B. bassiana* (or *B. brongniartii*) but were not so identified because of small (and possibly insignificant) differences in conidia size and/or shape.

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- 32 JE Henry. [Orthoptera: Acrididae]. 12 Jul 1973. USA: Montana.
- 547 VA Dyck. *Pachybrachis pallicornis* [Coleoptera: Chrysomelidae]. Acc'd 17 Sep 1986. Malaysia.
- 590 JM Lenné. *Mocis* sp. [Lepidoptera: Noctuidae]. Rec'd 13 Apr 1981. Colombia: Carimagua.
- 1040 J Aoki (Beau. 2) ← K Kawakami. *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Suginami, Tokyo Prefecture. Identification verified genomically.
- 1195 TJ Poprawski (001). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 18 May 1983. Italy: Vetralla, Lazio.
- 1196 TJ Poprawski (002). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1197 TJ Poprawski (004). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1198 TJ Poprawski (005). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1199 TJ Poprawski (013). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1200 TJ Poprawski (014). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1201 TJ Poprawski (023). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1202 TJ Poprawski (024). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1203 TJ Poprawski (025). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1204 TJ Poprawski (026). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1205 TJ Poprawski (027). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1206 TJ Poprawski (028). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1207 TJ Poprawski (030). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1208 TJ Poprawski (034). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Piancastagnaio, Toscana.
- 1209 TJ Poprawski (035). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 22 May 1983. Italy: Acquapendente, Lazio.
- 1210 TJ Poprawski (037). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1211 TJ Poprawski (038). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1213 TJ Poprawski (046). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1214 TJ Poprawski (047). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1215 TJ Poprawski (049). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1216 TJ Poprawski (050). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1218 TJ Poprawski (051). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1219 TJ Poprawski (052). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1220 TJ Poprawski (057). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1221 TJ Poprawski (059). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1222 TJ Poprawski (060). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1224 TJ Poprawski (061). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1327 TJ Poprawski (082). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1983. France: Saint-Laurent, Vosges.
- 1669 G Riba (C-37). [Araneida]. Acc'd 29 Oct 1984. France.
- 1681 M Shimazu (F-333). *Shirahoshizo insidiosus* [Coleoptera: Curculionidae]. 27 Jan 1982. Japan: Takao, Tokyo Prefecture.
- 1682 M Shimazu (F-357(11)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1835 SB Alves (295). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.

- 1886 H David. *Chilo infuscatellus* [Lepidoptera: Pyralidae] on sugar cane. Rec'd 1 Jun 1985. India: Sugarcane Breeding Institute, Coimbatore, Tamil Nadu.
- 2164 BN Muthappa (PNG 12723). [Hemiptera: Membracidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2412 K Narayanan (9). *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 6 May 1987. India.
- 2998 CBS (607.80) ← HC Evans. Larva, [Lepidoptera]. Rec'd 22 May 1990. Ecuador.
- 3289 J Gutierrez Samperio (5) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1988. Mexico: Colima.
- 3510 I Quintela (VL1). Rec'd 13 Dec 1991. Location not specified.
- 3859 [JB Tavares BRA-000027] MS Tigano-Milani (CG-76#1). *Solenopsis invicta* [Hymenoptera: Formicidae]. Rec'd 13 Jan 1993. Brazil.
- 3929 DR Sosa-Gómez (CNPSO-Bb48). Host not specified. Rec'd Jun 1993. Location not specified. Hybrid? of ARSEF: 944 & 933.
- 3936 DR Sosa-Gómez (CNPSO-Bb56). Host not specified. Rec'd Jun 1993. Location not specified. Hybrid? of ARSEF 944& 933.
- 4027 T Steenberg (231) ← CW Riedel. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1990. Denmark: Slangerup, Zealand.
- 4196 LA Lacey (940416). [Orthoptera: Acrididae]. Rec'd 12 May 1994. Russian Federation.
- 4197 LA Lacey (94015). [Orthoptera: Acrididae]. Rec'd 12 May 1994. Russian Federation.
- 4364 LA Lacey (94129). Soil. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4365 LA Lacey (94130). Soil. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4390 LA Lacey (94132). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4391 LA Lacey (94133). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4392 LA Lacey (94134). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4393 LA Lacey (94111). Soil. 28 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4394 LA Lacey (94112). Soil. 28 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4395 LA Lacey (94113). Soil. 28 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4396 LA Lacey (94114). Soil. 28 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4397 LA Lacey (94115). Soil. 28 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido.
- 4853 JM Sung (C-332). Adult, [Coleoptera: Coccinellidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.
- 4909 LA Lacey (95011). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4910 LA Lacey (95012). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4911 LA Lacey (95013). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4912 LA Lacey (95014). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4913 LA Lacey (95015). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4914 LA Lacey (95016). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4915 LA Lacey (95017). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4916 LA Lacey (95018). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4917 LA Lacey (95019). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4918 LA Lacey (95020). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4920 LA Lacey (95022). Host not specified. Rec'd 27 Apr 1995. Portugal: Terceira Island, Azores.
- 5078 SR Booth (Quinby; BSP). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. 17 Jan 1994. USA: Cranberry bog, Grayland, Washington.
- 5174 S Gouli (GA-86). [Araneida: Araneae]. 24 Jun 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.
- 5186 S Gouli (GA-96). [Coleoptera: Lampyridae]. 2 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5187 S Gouli (GA-97). [Araneida: Araneae]. 1 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5686 BL Parker (SPT-101). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.
- 5697 JM Sung (KEFC-1105). [Coleoptera]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 5831 BL Parker (SPT 003). [Coleoptera]. 17 Jan 1998. Turkey: Karabiyikli, Narli, Kahraman Maras.

- 5832 BL Parker (SPT 11(a)). [Lepidoptera]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 5833 BL Parker (SPT 013/1). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 6533 FE Vega (EBCL 99076). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 8 Jun 2000. Republic of Georgia: Bulachauri, Bulachauri, Mtskheta-Mtianeti.
- 6534 FE Vega (EBCL 99077). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 8 Jun 2000. Republic of Georgia: Bulachauri, Bulachauri, Mtskheta-Mtianeti.
- 6535 FE Vega (EBCL 99080). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 8 Jun 2000. Republic of Georgia: Breti, Mtskheta-Mtianeti.
- 6536 FE Vega (EBCL 99085). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 8 Jun 2000. Republic of Georgia: Breti, Mtskheta-Mtianeti.
- 6537 FE Vega (EBCL 99088). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 8 Jun 2000. Republic of Georgia: Lagodekhi Nature Reserve, Kakheti.
- 6691 [Araneida: Araneae]. Rec'd 17 Jan 2001. Ethiopia: Gusquam.
- 7079 KT Hodge (PR32). Edges of cocoon on underside of leaf, *Fabaceae*. 6 Jul 2002. USA: El Yunque, Caribbean National Forest, Tradewinds Trail, Río Grande Municipio, Puerto Rico.
- 7463 [CEP 061] C López Lastra. [Coleoptera: Curculionidae] on *Eryngium* sp. (Apiaceae). 13 Jul 2004. Argentina: San Vicente, Buenos Aires.
- 7562 I Klingen (NCRI 225/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7563 I Klingen (NCRI 226/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7564 I Klingen (NCRI 228/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, field margin of organic apple orchard, Balestrand, Sogn og Fjordane.
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- 13370 [SP Wraight ] Adult, [Coleoptera: Carabidae]. Apr 2017. USA: South Point, Island of Hawaii, Hawaii. 18.9111 -155.681111.
- 13377 [SP Wraight HI-65b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 30 Apr 2014. USA: feral coffee grove, Mamalahoa highway, Captain Cook, District of South Kona, Hawai'i. 19.39038, -155.87710.
- 13378 [SP Wraight HI-1639a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.

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- 13380 [SP Wraight HI-1655c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13381 [SP Wraight HI-2707b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13382 [SP Wraight HI-1706b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13383 [SP Wraight HI-1708] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13384 [SP Wraight HI-1709] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13385 [SP Wraight HI-1713a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13386 [SP Wraight HI-1714] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13387 [SP Wraight HI-1717] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13388 [SP Wraight HI-1723] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13389 [SP Wraight HI-1746] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13390 [SP Wraight HI-1750] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13391 [SP Wraight HI-1751] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13392 [SP Wraight HI-1754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13393 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd Nov 2017. USA: Kunia Research Farm, Hawai'i Agricultural Research Center, Oahu, Hawaii. collected in 2016 .
- 13394 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Jun 2017. USA: Maunawili Research Farm, Hawai'i Agricultural Research Center, Oahu, Hawaii.
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- 13396 Adult, *Tupiocoris* sp. [Hemiptera: Miridae] Rhododendron. Rec'd 24 Aug 2017. USA: State Game Lands #295, Centre County, Pennsylvania. collected near stream August 2017 by Michael Skvarla 40.987833, -77.494749.
- 13397 [SP Wraight HI-1657b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13398 [SP Wraight HI-1735] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13399 [SP Wraight HI-1755] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee bean. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13400 Adult, *Lycorma delicatula* [Hemiptera: Fulgoridae]. 28 Aug 2017. USA: Boyertown Reservoir, Berks County, Pennsylvania. collected by Miriam Cooperband and Sven-Erik Spichiger 40.340401, -75.684455.
- 13407 [SP Wraight HI-1641d] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13408 [SP Wraight HI-1641e] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13409 [SP Wraight HI-1645b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13410 [SP Wraight HI-1646b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13411 [SP Wraight HI-1649b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.
- 13412 [SP Wraight HI-1653a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 29 Mar 2016. USA: Goschke Farm, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.86602.



- 13413 [SP Wraight HI-1688b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13414 [SP Wraight HI-1716a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13415 [SP Wraight HI-1716b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13416 [SP Wraight HI-1728] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13417 [SP Wraight HI-1737] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13418 [SP Wraight HI-1738b1] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13419 [SP Wraight HI-1738b2] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13420 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Grenwell [sic] Farm, Captain Cook, District of South Kona, Hawai'i.
- 13421 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Big Tuki, Hawaii.
- 13422 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Andreas Farm, Hawaii.
- 13423 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Koa, Captain Cook, District of South Kona, Hawai'i.
- 13424 Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] green coffee berry. Rec'd 14 Feb 2018. USA: Terry Farm, Hawaii.
- 13432 [DW Roberts DWR 2429] Isolated from soil sample SS 267154 Aug 2010. USA: Harney County, Oregon. 43.261913, -118.583929.
- 13435 [DW Roberts DWR 2475] Isolated from soil sample SS 2800613 May 2011. USA: Maricopa County, Arizona. 33.27744, -112.7898.
- 13436 [DW Roberts DWR 2476] Isolated from soil sample SS 2879611 Jul 2011. USA: Maricopa County, Arizona. 33.44999, -113.22591.
- 13440 [DW Roberts DWR 2485] Isolated from soil sample SS 2805122 Jun 2011. USA: Maricopa County, Arizona. 33.45015, -112.66551.
- 13441 [DW Roberts DWR 2495] Isolated from soil sample SS 3096222 Jun 2011. USA: Millard County, Utah. 39.2125, -112.2357.
- 13450 [DW Roberts DWR 2524] Isolated from soil sample SS 3235911 Aug 2011. USA: Montana. 48.63118, -112.12357.
- 13455 [DW Roberts DWR 2533] Isolated from soil sample SS 3219411 Aug 2011. USA: Montana. 47.51710, -106.71938.
- 13457 [DW Roberts DWR 2537] Isolated from soil sample SS 32294Aug 2011. USA: Montana. 45.81816 - 109.03430.
- 13458 [DW Roberts DWR 2548] Isolated from soil sample SS 32733 C16 May 2012. USA: Hayes County, Nebraska. 40.49223, -100.93043.
- 13459 [DW Roberts DWR 2549] Isolated from soil sample SS 3280321 May 2012. USA: Frontier County, Nebraska. 40.64253, -100.35468.
- 13460 [DW Roberts DWR 2550] Isolated from soil sample SS 3315722 Jun 2012. USA: Millard County, Utah. 39.27280, -113.58490.
- 13461 [DW Roberts DWR 2552] Isolated from soil sample SS 32630 B30 May 2012. USA: Uintah County, Utah. 40.13400, -109.08510.
- 13464 [DW Roberts DWR 2559] Isolated from soil sample SS 32733 A16 May 2012. USA: Hayes County, Nebraska. 40.49223, -100.93043.
- 13465 [DW Roberts DWR 2561] Isolated from soil sample SS 327719 May 2012. USA: Dundy County, Nebraska. 40.27127, -101.70108.
- 13466 [DW Roberts DWR 2562] Isolated from soil sample SS 3420823 May 2012. USA: Morrill County, Nebraska. 41.64252, -102.75391.
- 13467 [DW Roberts DWR 2563] Isolated from soil sample SS 34681Summer 2012. USA: Lincoln County, Montana. 48.68815, -114.87564.
- 13468 [DW Roberts DWR 2564] Isolated from soil sample SS 33938 A5 Jun 2012. USA: Sheridan County, Nebraska. 42.67236, -102.55834.
- 13471 [DW Roberts DWR 2568] Isolated from soil sample SS 3263030 May 2012. USA: Uintah County, Utah. 40.13400, -109.08510.
- 13570 *Diaphorina citri* [Hemiptera: Psyllidae]. Rec'd 31 May 2018. USA: Spyke's Grove, 1330 Okeechobee Road, Fort Pierce, Florida. 27.39128, -80.46181.
- 13571 *Diaphorina citri* [Hemiptera: Psyllidae]. Rec'd 31 May 2018. USA: Spyke's Grove, 1330 Okeechobee Road, Fort Pierce, Florida. 27.39128, -80.46181.
- 13595 [SP Wraight HI-1668] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Scarr Farm, Island of Hawaii, Hawaii.
- 13599 *Lycorma delicatula* [Hemiptera: Fulgoridae]. Acc'd 26 Sep 2018. USA: Pennsylvania.
- 13600 *Lycorma delicatula* [Hemiptera: Fulgoridae]. Acc'd 26 Sep 2018. USA: Pennsylvania.

- 13601 *Lycorma delicatula* [Hemiptera: Fulgoridae]. Acc'd 26 Sep 2018. USA: Pennsylvania.
- 13602 *Lycorma delicatula* [Hemiptera: Fulgoridae]. Acc'd 26 Sep 2018. USA: Pennsylvania.
- 13603 *Lycorma delicatula* [Hemiptera: Fulgoridae]. Acc'd 26 Sep 2018. USA: Pennsylvania.
- 13661 [A Khan plam weevil Bb2] *Rhynchophorus palmarum* [Coleoptera: Curculionidae] Coconut Palm. Acc'd 30 Sep 2018. Trinidad: Ceno.
- 13678 [M Burjanadze MB-017] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13683 [M Burjanadze MB-022] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13687 [M Burjanadze MB-027] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13688 [M Burjanadze MB-028] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13689 [M Burjanadze MB-029] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13691 [M Burjanadze MB-031] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13696 [M Burjanadze MB-036] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13697 [M Burjanadze MB-037] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13711 [M Burjanadze MB-053] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13735 [M Burjanadze MB-079] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13748 [M Burjanadze MB-092] [Lepidoptera: Geometridae]. Rec'd 17 Sep 2018. Republic of Georgia: Dusheti, Mtskheta-Mtianeti.
- 13752 [M Burjanadze MB-096] [Hymenoptera]. Rec'd 17 Sep 2018. Republic of Georgia: Dusheti, Mtskheta-Mtianeti.
- 13755 [M Burjanadze MB-099] *Phytoptus avellanae* [Prostigmata: Eriophyidae]. Rec'd 17 Sep 2018. Republic of Georgia: Guria.
- 13756 [M Burjanadze MB-100] *Phytoptus avellanae* [Prostigmata: Eriophyidae]. Rec'd 17 Sep 2018. Republic of Georgia: Guria.
- 13757 [M Burjanadze MB-101] *Halyomorpha halys* [Hemiptera: Pentatomidae]. Rec'd 17 Sep 2018. Republic of Georgia. collected winter 2017-2018.
- 13758 [M Burjanadze MB-102] *Halyomorpha halys* [Hemiptera: Pentatomidae]. Rec'd 17 Sep 2018. Republic of Georgia. collected winter 2017-2018.
- 13765 [D Flores ACP 18001] *Diaphorina citri* [Hemiptera: Psyllidae]. Rec'd 17 Sep 2018. USA: Mission, Texas. Collected July 2018.
- 13766 [D Flores ACP 18002] *Diaphorina citri* [Hemiptera: Psyllidae]. Rec'd 17 Sep 2018. USA: Mission, Texas. Collected July 2018.
- 13770 [ST Jaronski 14 RAU 185] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13771 [ST Jaronski 14 RAU 207] *Melanoplus confusus* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.



- 13800 [ST Jaronski 14 RAU 254] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13801 [ST Jaronski 14 RAU 255] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13802 [ST Jaronski 14 RAU 256] *Melanoplus* sp. [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13803 [ST Jaronski 14 RAU 257] *Melanoplus* sp. [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13804 [ST Jaronski 14 RAU 258] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13805 [ST Jaronski 14 RAU 259] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13806 [ST Jaronski 14 RAU 261] *Melanoplus keeleri* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13807 [ST Jaronski 14 RAU 262] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13808 [ST Jaronski 14 RAU 263] *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13809 [ST Jaronski 14 RAU 264] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13810 [ST Jaronski 14 RAU 265] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13811 [ST Jaronski 14 RAU 266] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13812 [ST Jaronski 14 RAU 267] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 9 Mar 2014. USA: Teddy Roosevelt National Grasslands, McKenzie County, North Dakota. N 47.664161, W -103.948028.
- 13814 *Musca domestica* [Diptera: Muscidae]. 12 Jul 2018. USA: Shadybrae poultry farm, Marietta, Lancaster County, Pennsylvania. Alexandra Pagac collector.
- 13818 [ST Jaronski 14 Rau 001] *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 1 Jul 2014. USA: Near Lingle, Cochrane Ranch field trial site, Goshen County, Wyoming. Collected Near Lingle WY, Cochrane Ranch field trial site, July 2014 from untreated block.
- 13819 [ST Jaronski 14 Rau 002] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13820 [ST Jaronski 14 Rau 003] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13821 [ST Jaronski 14 Rau 004] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13822 [ST Jaronski 14 Rau 005] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13823 [ST Jaronski 14 Rau 006] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13824 [ST Jaronski 14 Rau 007] *Melanoplus packardii* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13825 [ST Jaronski 14 Rau 008] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13826 [ST Jaronski 14 Rau 009] *Aulocara* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13827 [ST Jaronski 14 Rau 010] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13828 [ST Jaronski 14 Rau 011] *Melanoplus confusus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .





- 13874 [ST Jaronski 14 Rau 061] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13875 [ST Jaronski 14 Rau 065] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13876 [ST Jaronski 14 Rau 066] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13877 [ST Jaronski 14 Rau 067] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13878 [ST Jaronski 14 Rau 068] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13879 [ST Jaronski 14 Rau 069] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13880 [ST Jaronski 14 Rau 070] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13881 [ST Jaronski 14 Rau 071] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13882 [ST Jaronski 14 Rau 072] *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13883 [ST Jaronski 14 Rau 073] *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13884 [ST Jaronski 14 Rau 074] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13885 [ST Jaronski 14 Rau 075] *Melanoplus confusus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13886 [ST Jaronski 14 Rau 076] *Aulocara* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13887 [ST Jaronski 14 Rau 077] *Aulocara* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13888 [ST Jaronski 14 Rau 078] *Melanoplus confusus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13889 [ST Jaronski 14 Rau 079] *Melanoplus keeleri* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13890 [ST Jaronski 14 Rau 081] *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13891 [ST Jaronski 14 Rau 083] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13892 [ST Jaronski 14 Rau 087] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13893 [ST Jaronski 14 Rau 088] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13894 [ST Jaronski 14 Rau 089] *Melanoplus dawsonii* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13895 [ST Jaronski 14 Rau 090] *Arphia pseudonietana* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .
- 13896 [ST Jaronski 14 Rau 092] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028 .







- 13945 [ST Jaronski 14 Rau 148] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. Colorado. Also frozen as ARSEF 11526. N 39.200398 W -102.968711.
- 13946 [ST Jaronski 14 Rau 149] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13960 DW Roberts (DWR 2470). Isolated from soil sample using selective media Isolated from soil sample SS 29432. 24 May 2011. USA: Maricopa County, Arizona. N 33.15976 W -112.69422.
- 13947 [ST Jaronski 14 Rau 150] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13961 DW Roberts (DWR 2471). Isolated from soil sample using selective media Isolated from soil sample SS 28316. 2 May 2011. USA: Yuma County, Arizona. N 32.74206 W -114.44456.
- 13948 [ST Jaronski 14 Rau 151] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13962 DW Roberts (DWR 2473). Isolated from soil sample using selective media Isolated from soil sample SS 30166. 28 Jun 2011. USA: Pershing County, Nevada. N 40.23081 W -118.47694.
- 13949 [ST Jaronski 14 Rau 153] *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13963 DW Roberts (DWR 2477). Isolated from soil sample using selective media Isolated from soil sample SS 28797. 11 Jul 2011. USA: Maricopa County, Arizona. N 33.44723 W -113.23093.
- 13950 [ST Jaronski 14 Rau 155] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13964 DW Roberts (DWR 2478). Isolated from soil sample using selective media Isolated from soil sample SS 29754. 7 Jun 2011. USA: Maricopa County, Arizona. N 33.26125 W -112.46097.
- 13951 [ST Jaronski 14 Rau 156] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13965 DW Roberts (DWR 2483). Isolated from soil sample using selective media Isolated from soil sample SS 29382. 2 Jun 2011. USA: Maricopa County, Arizona. N 33.25775 W -112.44466.
- 13952 [ST Jaronski 14 Rau 172] *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13966 DW Roberts (DWR 2486). Isolated from soil sample using selective media Isolated from soil sample SS 29865. 13 Jun 2011. USA: Washington County, Idaho. N 44.22648 W -116.95317.
- 13953 [ST Jaronski 14 Rau 175] *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13967 DW Roberts (2489). Isolated from soil sample using selective media Isolated from soil sample SS 26892. 12 May 2011. USA: Maricopa County, Arizona. N 33.28848 W -112.78511.
- 13954 [ST Jaronski 14 Rau 177] *Melanoplus bivittatus* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13968 DW Roberts (DWR 2494). Isolated from soil sample using selective media Isolated from soil sample SS 30823. 20 Jul 2011. USA: San Juan County, Utah. N 37.5921 W -109.3659.
- 13955 [ST Jaronski 14 Rau 179] *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13969 DW Roberts (DWR 2498). Isolated from soil sample using selective media Isolated from soil sample SS 31295. 27 Jul 2011. USA: Park County, Wyoming. N 44.12899 W -108.82316.
- 13956 [ST Jaronski 14 Rau 180] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13970 DW Roberts (DWR 2525). Isolated from soil sample using selective media Isolated from soil sample SS 32335. 3 Aug 2011. USA: Montana. N 46.55588 W -113.29155.
- 13957 [ST Jaronski 14 Rau 181] *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2014. USA: Teddy Roosevelt National Grasslands, 'Rau' site, McKenzie County, North Dakota. N 47.664161, W -103.948028. 13971 DW Roberts (DWR 2526). Isolated from soil sample using selective media Isolated from soil sample SS 32276. 23 Aug 2011. USA: Montana. N 45.13806 W -105.78712.
- 13959 DW Roberts (DWR 1902). Isolated from soil sample using selective media Isolated from soil sample SS 13419. 20 May 2009. USA: Kit Carson County, 13972 DW Roberts (DWR 2528). Isolated from soil sample using selective media Isolated from soil sample SS 32394. Summer 2011. USA: Montana. N 47.14430 W -113.99132.

- 13973 DW Roberts (DWR 2551). Isolated from soil sample using selective media Isolated from soil sample SS 32843. 24 May 2012. USA: Garden County, Nebraska. N 41.39513 W -102.06029.
- 13974 DW Roberts (DWR2554). Isolated from soil sample using selective media Isolated from soil sample SS 32521. 21 May 2012. USA: Millard County, Utah. N 39.45120 W -112.44450.
- 13975 DW Roberts (DWR 2555). Isolated from soil sample using selective media Isolated from soil sample SS 32897. 4 Jun 2012. USA: Thomas County, Nebraska. N 41.87461 W -100.82108.
- 13976 DW Roberts (DWR 2557). Isolated from soil sample using selective media Isolated from soil sample SS 32772. 9 May 2012. USA: Lincoln County, Nebraska. N 40.22390 W -101.93168.
- 13977 DW Roberts (DWR 2558). Isolated from soil sample using selective media Isolated from soil sample SS 32866. 29 May 2012. USA: Lincoln County, Nebraska. N 41.37893 W -100.25467.
- 13978 DW Roberts (DWR 2565). Isolated from soil sample using selective media Isolated from soil sample SS 32897. 4 Jun 2012. USA: Thomas County, Nebraska. N 41.87461 W -100.82108.
- Beauveria amorpha*** (von Hoehnel) Minnick, SA  
Rehner & Humber  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Replaces *B. amorpha* (von Hoehnel)  
Samson & Evans.
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- 656 DW Roberts (101481-5). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 14 Oct 1981. PR China: Hunan.
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- 1680 M Shimazu (F-313). *Psacotha hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Takao, Tokyo Prefecture.
- 1969 KV Raman. *Premnotrypes suturicallus* [Coleoptera: Curculionidae]. 1985. Peru: Andes Mountains. Identification verified genomically.
- 2641 DW Roberts ← SB Alves (621). *Solenopsis* sp. [Hymenoptera: Formicidae]. Rec'd 23 Nov 1988. Brazil: Alambari, São Paulo. Identification verified genomically.
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- 4990 LA Lacey (95048). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 6227 [RCEF 0288] [Lepidoptera]. 13 May 1997. PR China: Anhui.
- 6376 WK Reeves. [Orthoptera: ?Gryllacrididae]. 1 Dec 1999. USA: Rich Mountain Blowhole Cave, Blount County, Tennessee.
- 6577 WK Reeves. [Orthoptera: ?Gryllacrididae]. Rec'd 18 Aug 2000. USA: Rich Mountain Blowhole Cave, Blount County, Tennessee.
- 7542 BJ Cole (C33). *Pogonomyrmex occidentalis* [Hymenoptera: Formicidae] Colony 7437. Summer 2004. USA: Mesa County, Colorado. Identification verified genomically.
- 10650 DW Roberts (DWR 675). Isolated from soil sample SS 7873. 7 Aug 2008. USA: Big Horn County, Montana.
- 10947 DW Roberts (DWR 1074). Isolated from soil sample SS 7295. 25 Jul 2008. USA: Millard County, Utah. N 39.0925, W 112.1329.
- 11113 DW Roberts (DWR 1305). Isolated from soil sample SS 8995. 30 Jun 2008. USA: Yuma County, Colorado. N 40.039758, W 102.11466.
- 13451 [DW Roberts DWR 2527] Isolated from soil sample SS 324019 Aug 2011. USA: Montana. 47.99192, -112.48170.
- 13452 [DW Roberts DWR 2529] Isolated from soil sample SS 3221923 Aug 2011. USA: Montana. 48.15757, -105.64705.
- 13470 [DW Roberts DWR 2567] Isolated from soil sample SS 3467612 Aug 2012. USA: Sanders, Montana. 47.50779, -114.82486.
- Beauveria amorpha*(?)** (van Hoehnel) Samson & HC  
Evans  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae
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- 6827 TL Dubois (WU 20 (2)). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.
- Beauveria asiatica*** SA Rehner & Humber  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Defined primarily by genotypic characters
- 
- 4384 LA Lacey (94135). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. Identification verified genomically.
- 4474 LA Lacey (94152). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou. Identification verified genomically.
- 4850 JM Sung (C-322). Adult, longicorn. 14 Jul 1994. Republic of Korea: Chiag Mt., Kangwon-do. CULTURE EX TYPE.
- Beauveria australis*** SA Rehner & Humber  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Defined primarily by genotypic characters
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- 4580 [DAT 460] AC Rath (F460). [Orthoptera: Acrididae].

- Rec'd 1 Sep 1994. Australia: Tasmania. Identification verified genomically.
- 4598 [DAT 308] AC Rath (F308) ← H Yip (HY51). Soil. 18 Feb 1988. Australia: Benham, Avoca, Tasmania. CULTURE EX TYPE.
- 4622 [DAT 459] AC Rath (F459). [Orthoptera: Acrididae]. Rec'd 1 Sep 1993. Australia: Tasmania. Identification verified genomically.
- Beauveria bassiana*** (Balsamo-Crivelli) Vuillemin [Sordariomycetes: Hypocreales]  
Cordycipitaceae. Major synonym: *Beauveria densa* (Link:Fries) Picard
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- 1 [ATCC 24318] 1st instar larva, *Malacosoma americanum* [Lepidoptera: Lasiocampidae] on *Prunus maritima*. 18 Apr 1972. USA: Chapin Beach, Dennis, Massachusetts.
- 33 R Vollock. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 13 Nov 1973. USA: greenhouse, Orono, Maine.
- 34 GL Barnes. Russian commercial formulation. Apr 1974. Laboratory manipulation.
- 149 M Wojciechowska (28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 Jul 1977. France.
- 150 M Wojciechowska (24). [Coleoptera: Elateridae]. Rec'd 18 Jul 1977. France.
- 151 M Wojciechowska (17). *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 18 Jul 1977. France.
- 153 M Wojciechowska (2-72). *Chrysopa* sp. [Neuroptera: Chrysopidae]. Rec'd 18 Jul 1977. Commonwealth of Independent States.
- 154 M Wojciechowska (51-75). *Pamphilius betulae* [Hymenoptera: Pamphiliidae]. Rec'd 18 Jul 1977. Commonwealth of Independent States.
- 155 M Wojciechowska (75-67). *Lymantria dispar* [Lepidoptera: Lymantriidae]. Rec'd 18 Jul 1977. Commonwealth of Independent States.
- 158 M Wojciechowska (N-2). Soil. Rec'd 18 Jul 1977. Poland.
- 159 M Wojciechowska (70). Rec'd 18 Jul 1977. Czech Republic.
- 160 M Wojciechowska (72). Rec'd 18 Jul 1977. Czech Republic.
- 201 JD Vandenberg. *Diabrotica undecimpunctata* [Coleoptera: Chrysomelidae] on greenbeans. 22 Oct 1977. USA: greenhouse, Corvallis, Oregon. Mycotech's GHA (US Patent 5,939,065; 17 Aug 1999), the active ingredient in Mycotrol products, is a reisolat of this strain.
- 220 Boverin formulation. Rec'd Jun 1978. Commonwealth of Independent States.
- 252 C Madore. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Sep 1978. USA: greenhouse, Orono, Maine.
- 275 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 276 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 277 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 278 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 279 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 280 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 281 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 282 Single spore reisolat of ARSEF 252. 4 Dec 1978. Laboratory manipulation.
- 283 DW Roberts ← O Alyoshina. Single spore reisolat of Boverin formulation. 2 Dec 1978. Commonwealth of Independent States.
- 284 DW Roberts (N-2) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
- 285 DW Roberts (1110) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
- 286 DW Roberts (BSS-1) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
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- 288 DW Roberts (BSS-3) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
- 289 DW Roberts (BSS-4) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
- 290 DW Roberts (BSS-5) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
- 291 DW Roberts (3T) ← O Alyoshina. Single spore reisolat of Boverin formulation. Apr 1978. Commonwealth of Independent States.
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- 296 DW Roberts (CLB-2) ← E West-Davidson. 1967. USA: Ohio State University, Ohio.
- 301 DW Roberts ← B Schaerffenberg. [Coleoptera]. Acc'd 23 Mar 1979. Poland.
- 302 DW Roberts (Bbass-2) ← K Kawakami. *Bombyx mori* [Lepidoptera: Bombycidae]. 1967. Japan.

- 303 DW Roberts (Bbass-3) ← K Kawakami. *Bombyx mori* [Lepidoptera: Bombycidae]. 1967. Japan.
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- 305 DW Roberts (Bbass-5) ← K Kawakami. *Bombyx mori* [Lepidoptera: Bombycidae]. 1967. Japan.
- 306 DW Roberts (SG-8). Acc'd Apr 1979. USA: Ohio.
- 307 DW Roberts (SH-8). Acc'd Mar 1979. USA: Ohio.
- 308 DW Roberts (I FAR) ← K Kawakami. Acc'd Mar 1979. Japan.
- 317 RA LeBrun. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 27 Feb 1979. USA: Rhode Island.
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- 319 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. Mexico.
- 320 GR Buckingham. *Mesovelia mulsanti* [Hemiptera: Mesoveliidae]. Dec 1978. USA: Gainesville, Florida.
- 325 [CSIRO FI49] RS Soper. [Coleoptera: Nitidulidae] on maize. 14 Feb 1979. Australia: Atherton, Queensland.
- 326 [CSIRO FI50] RS Soper ← R Teakle (M-168). *Chilo plejadellus* [Lepidoptera: Pyralidae]. Acc'd 26 Mar 1979. Australia: Brisbane, Queensland.
- 333 DW Roberts (SG-(G)) or (2A2-B(b)) ← B Schaerffenberg. Single spore reisolat of ARSEF 301. 1970. Poland.
- 334 DW Roberts (SG-(F)) or (2A3-B(a)) ← B Schaerffenberg. Single spore reisolat of ARSEF 301. 1970. Poland.
- 335 DW Roberts (SG-(G)) or (2B2-A) ← B Schaerffenberg. Single spore reisolat of ARSEF 301. 1970. Poland.
- 336 C Russel. *Chalcoedermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
- 337 C Russel. *Chalcoedermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
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- 339 T Nash. *Diprion pini* [Hymenoptera: Diprionidae]. 16 Jun 1978. Location not specified.
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- 344 J Lindegren. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Feb 1979. USA: Yakima, Washington.
- 350 IM Abalis. [Coleoptera]. Acc'd 8 Jun 1979. USA: Ithaca, New York.
- 353 C Gordon. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. May 1978. USA: laboratory colony, Orono, Maine.
- 356 [CSIRO FI51] RS Soper (Bb-1). [Orthoptera: Acrididae]. 31 Jan 1979. Australia: Armidale, New South Wales.
- 357 RS Soper (Bb-2). [Orthoptera: Acrididae]. 31 Jan 1979. Australia: Armidale, New South Wales.
- 384 INRA. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Sep 1979. France.
- 412 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 27 Jul 1979. USA: Apopka, Florida.
- 413 CW McCoy. *Araecerus fasciculatus* [Coleoptera: Anthribidae]. 8 May 1979. USA: Fruitland Park, Florida.
- 416 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
- 433 *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 14 Jan 1980. Location not specified.
- 474 C Bajan. Rec'd May 1980. Poland.
- 477 RA Daoust (Bb-Z1). *Zulia entreriana* [Hemiptera: Cercopidae]. 26 Jan 1980. Brazil: Mato Grosso do Sul, Mato Grosso.
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- 502 RL Jones. Larva, *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Rec'd 11 Aug 1980. PR China.
- 503 RA Humber and RS Soper. Larva, *Carpocapsa pomonella* [Lepidoptera: Olethreutidae] on pear. 12 Aug 1980. Yugoslavia: orchard nursery nr. Zabari, Zabari, Serbia.
- 504 RS Soper. [Coleoptera: Chrysomelidae]. 12 Aug 1980. Yugoslavia: orchard behind bus station, Zabari, Serbia.
- 505 RA Humber. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Aug 1980. Yugoslavia: potato field at road marker 119 on M22, nr. Srbobran.
- 506 RA Humber and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 14 Aug 1980. Yugoslavia: road marker 82 on M22, nr. Srbobran, Freketic.
- 507 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 16 Aug 1980. Yugoslavia: between Putnici and Indjija.
- 508 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 16 Aug 1980. Yugoslavia: E of Ruma, nr. Krajljvci, Vojvodina.
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- 533 RL Jones. *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Rec'd 11 Aug 1980. PR China.
- 534 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: established laboratory colony, Boyce Thompson Institute, Ithaca, New York.

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- 536 MG Ward. Leaf wash. Rec'd Sep 1980. USA: ARSEF 252 spray plot, Agway Research Farm, Tully, New York.
- 537 DW Roberts. Larva, [Lepidoptera] on lychee tree. 20 Aug 1980. Thailand.
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- 566 RS Soper (81226-3). *Leptocoris* sp. [Hemiptera: Rhopalidae]. 26 Feb 1981. Indonesia: N of Yogyakarta, Sleman District, Yogyakarta, Java.
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- 654 DW Roberts (102081-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 20 Oct 1981. PR China: Wuhan, Hupei.
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- 718 RS Soper. *Bombyx mori* [Lepidoptera: Bombycidae]. 11 Nov 1981. PR China: Hangzhou, Zhijiang.
- 719 RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 11 Nov 1981. PR China: Wuhan, Hupei.
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- 730 [CNPAF 81-11-25-01; CP 1] RA Daoust. Adult, [Hymenoptera: Vespidae]. 25 Nov 1981. Brazil: Costa do Arapapa, Amazonas.
- 731 [CNPAF 81-11-25-05; CP 5] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 732 [CNPAF 81-11-25-07; CP 6] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 733 [CNPAF 82-1-6-01; CP 7] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 734 [CNPAF 82-1-6-03; CP 9] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
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- 737 [CNPAF 82-1-26-01; CP 20] RA Daoust ← E Ferreira. [Hemiptera: Pentatomidae]. 26 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 738 [CNPAF 82-2-9-01; CP 23] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 9 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 739 [CNPAF 82-2-3-01; CP 27] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
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- 753 [CNPAF 82-3-24-01; CP 36] RS Soper. *Aracanthus* sp. [Coleoptera: Curculionidae]. 24 Mar 1982. Brazil: Brejo Santo, Ceará.
- 754 [CNPAF 82-4-4-01; CP 38] RA Daoust. [Coleoptera]. 4 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
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- 757 [CNPAF 82-3-23-01; CP 35] RA Daoust. [Coleoptera: Tenebrionidae]. 23 Mar 1982. Brazil: Missão Velha, Ceará.
- 758 [CNPAF 82-3-1-03; CP 29] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 1 Mar 1982. Brazil: CNPAF, Goiânia, Goiás.
- 783 [CNPAF 82-5-6-02; CP 59] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 784 [CNPAF 82-4-30-01C; CP 47] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
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- 786 [CNPAF 82-5-3-03B; CP 51] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 787 [CNPAF 82-5-6-01; CP 58] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
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- 804 [CNPAF 82-4-30-01D; CP 48] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 805 [CNPAF 82-5-3-01; CP 49] RA Daoust ← LS Teixeira. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: Pacajus, Ceará.
- 806 [CNPAF 82-5-4-06; CP 53] RA Daoust ← SM dos Santos. *Deois flavopicta* [Hemiptera: Cercopidae]. 4 May 1982. Brazil: CNPAF, Goiânia, Goiás.
- 809 [CNPAF 82-6-28-01; CP 61] RA Daoust ← SM dos Santos. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 28 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.
- 812 GG Soares (3) ← G Euverte. Overwintering adults, *Corythucha ciliata* [Hemiptera: Tingidae]. 18 Feb 1981. France: Avignon, Vaucluse.
- 815 GG Soares (12). 6th instar larva, *Otiiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.
- 816 GG Soares (20) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 842 *Metamasius* sp. [Coleoptera: Curculionidae]. Acc'd 6 Jun 1983. Colombia.
- 843 D Jansen. Pupa, [Lepidoptera: Saturniidae]. Acc'd 6 Jun 1983. Costa Rica.
- 886 GG Soares (34) ← D Covtinot. Adult, *Lygus* sp. [Hemiptera: Miridae]. Sep 1982. Spain: Burgos.
- 928 [CNPAF 82-07-27-01; CP 63] RA Daoust ← SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 27 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 930 [CNPAF 82-12-15-02; CP 68] RA Daoust ← SM dos Santos. [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 931 [CNPAF 82-12-20-01; CP 69] RA Daoust ← H da Silva Coelho. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 933 [CNPAF 82-12-20-02; CP 71] RA Daoust ← E Ferreira. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 934 [CNPAF 83-1-25-01; CP 72] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Jan 1983. Brazil: CNPAF, Goiânia, Goiás.
- 937 [CNPAF 83-3-3-01; CP 76] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: F. Itamaraty, Ponta Porã, Mato Grosso.
- 938 [CNPAF 83-3-3-02; CP 77] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 941 [CNPAF 83-03-16C; CP 82] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 942 [CNPAF 83-03-16D; CP 83] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 943 [CNPAF 83-03-16E; CP 84] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 944 [CNPAF 83-03-16F; CP 85] RA Daoust and BP Magalhães. [Hemiptera: Pentatomidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 945 [CNPAF 83-03-16G; CP 86] RA Daoust and BP Magalhães. [Hemiptera: Cicadellidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 946 [CNPAF 83-03-15E; CP 87] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 947 [CNPAF 83-03-15-M; CP 88] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 948 [CNPAF 83-03-15-O; CP 89] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 949 [CNPAF 83-03-15-P; CP 90] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 950 [CNPAF 83-03-15-Q; CP 91] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 951 [CNPAF 83-03-15B; CP 92] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 952 [CNPAF 83-03-15H; CP 93] RA Daoust and BP Magalhães. Adult, [Coleoptera: Carabidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 953 [CNPAF 83-03-16K; CP 98] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 956 [CNPAF 83-5-27; CP 101] RA Daoust ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 27 May 1983. Brazil: CNPAF, Goiânia, Goiás.
- 957 [CNPAF 83-06-06-1; CP 102] RA Daoust. [Hymenoptera: ?Megachilidae]. 6 Jun 1983. Brazil: CNPAF, Goiânia, Goiás.

- 958 [CNPAF 83-01-06A (CB 97); CP 104] RA Daoust ← SM de Carvalho. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 Jan 1983. Brazil: Londrina, Paraná.
- 982 [CNPAF 83-03-17B; CP 95] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 17 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 987 J Aoki (Beau. 1). *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Fuchu, Tokyo Prefecture.
- 1001 J Aoki (Beau. 5) ← K Katagiri ← T Kushida. *Dioryctria sylvestrella* [Lepidoptera: Pyralidae]. Dec 1968. Japan: Hachioji, Tokyo Prefecture.
- 1007 J Aoki (Beau. 3). *Bombyx mori* [Lepidoptera: Bombycidae]. Rec'd 7 Nov 1983. Japan: Fuchu, Tokyo Prefecture.
- 1016 ME McGiffen. *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Nov 1983. Location not specified.
- 1038 G Riba. *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Fall 1983. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1039 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1041 J Aoki (Isa. 1) ← S Miyajima. *Psacotha hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Nagakute, Aichi Prefecture.
- 1053 [CNPS 14] F Moscardi. [Orthoptera: Acrididae]. 1983. Brazil: Londrina, Paraná.
- 1054 [CNPS 15] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.
- 1060 [CNPS 31] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1061 [CNPS 32] F Moscardi ← Francisco. [Coleoptera: Curculionidae]. 1983. Brazil: Londrina, Paraná.
- 1073 TJ Poprawski (83-48). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1074 TJ Poprawski (83-49). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1075 TJ Poprawski (83-54). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 21 Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1079 *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd Feb 1984. USA: Washington.
- 1081 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1098 Y Ando. *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 20 Feb 1983. Japan: Insectron Experiment Station, Tsukuba, Ibaraki Prefecture.
- 1103 [ARSEF 1558] KV Deseö (8) ← Goidanich. Larva, *Cossula cossus* [Lepidoptera: Cossidae]. Jun 1981. Italy: Bologna, Emilia-Romagna.
- 1104 KV Deseö (10) ← Goidanich. Larva, *Cossula cossus* [Lepidoptera: Cossidae]. Jun 1981. Italy: Bologna, Emilia-Romagna.
- 1105 KV Deseö (17). Larva, *Zeuzera pyrina* [Lepidoptera: Cossidae]. Jan 1982. Italy: Galliera.
- 1106 KV Deseö (25) ← Chianella. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Feb 1982. Italy: Sicily.
- 1107 KV Deseö (26) ← Becchi. Pupa, *Lobesia botrana* [Lepidoptera: Tortricidae]. Mar 1982. Italy: Modena, Emilia-Romagna.
- 1110 KV Deseö (31) ← Becchi. Pupa, *Lobesia botrana* [Lepidoptera: Tortricidae]. Apr 1982. Italy: Modena, Emilia-Romagna.
- 1113 KV Deseö (38). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. Jun 1982. Italy: insect colony, Bologna, Emilia-Romagna.
- 1114 KV Deseö (39). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae]. Jun 1982. Italy: insect colony, Bologna, Emilia-Romagna.
- 1115 KV Deseö (40A) ← Celli. Pupa, *Leucoptera scitella* [Lepidoptera: Lyonetiidae]. Aug 1982. Italy: Ravenna, Emilia-Romagna.
- 1117 KV Deseö (41) ← Celli. Pupa, *Leucoptera scitella* [Lepidoptera: Lyonetiidae] with hymenopterous parasite. Aug 1982. Italy: Ravenna, Emilia-Romagna.
- 1118 KV Deseö (45) ← Maini. Larva, *Sesamia cretica* [Lepidoptera: Noctuidae]. Sep 1982. Italy: Forli, Emilia-Romagna.
- 1119 KV Deseö (47). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Oct 1982. Italy: Modena, Emilia-Romagna.
- 1121 KV Deseö (81) ← Chianella. Pupa, *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Mar 1982. Italy: Padua, Venetia.
- 1122 KV Deseö (83). *Cydia pomonella* [Lepidoptera: Tortricidae]. Mar 1983. Italy: Bologna, Emilia-Romagna.
- 1149 TJ Poprawski (83-79). 3rd instar larva, *Helicoverpa armigera* [Lepidoptera: Noctuidae]. 4 Aug 1983. Spain: Córdoba.
- 1150 TJ Poprawski (83-37). Adult, [Diptera: Tachinidae] parasitic on *Sitona lineatus* [Coleoptera: Curculionidae]. 17 Nov 1983. France: Senneville.
- 1151 TJ Poprawski (83-05). Pupa, *Delia radicum* [Diptera: Anthomyiidae]. 24 Aug 1983. Canada: L'Acadie, Québec.
- 1153 TJ Poprawski (074). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1154 TJ Poprawski (072). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 25 Jan 1984. Morocco: Jramma.



- 1155 TJ Poprawski (073). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1156 TJ Poprawski (83-639). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 22 Oct 1983. France: Guyancourt, Yvelines.
- 1157 TJ Poprawski (83-619). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1158 TJ Poprawski (83-634). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Vernon, Eure.
- 1159 TJ Poprawski (83-615). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1160 TJ Poprawski (83-614). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1161 TJ Poprawski (83-626). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Mantes-la-Jolie, Yvelines.
- 1162 TJ Poprawski (83-623). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Limay, Yvelines.
- 1163 TJ Poprawski (071A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1164 TJ Poprawski (070). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1165 TJ Poprawski (83-621). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1166 TJ Poprawski (83-77). 3rd instar larva, *Helicoverpa armigera* [Lepidoptera: Noctuidae]. 2 Aug 1983. Spain: Córdoba.
- 1167 TJ Poprawski (83-701). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Nov 1983. France: Senneville.
- 1168 TJ Poprawski (83-702). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 10 Oct 1983. France: Senneville.
- 1169 TJ Poprawski (83-703). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1170 TJ Poprawski (83-704). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 23 Nov 1983. France: Senneville.
- 1171 TJ Poprawski (A2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1172 TJ Poprawski (A4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1173 TJ Poprawski (A5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Achouria.
- 1174 TJ Poprawski (A6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1175 TJ Poprawski (A7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Achouria.
- 1176 TJ Poprawski (J1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1177 TJ Poprawski (J2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1178 TJ Poprawski (J3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 7 Feb 1984. Morocco: Jorf.
- 1179 TJ Poprawski (J4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1180 TJ Poprawski (J5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1181 TJ Poprawski (J6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Jorf.
- 1182 TJ Poprawski (83-616). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1183 TJ Poprawski (J7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Jorf.
- 1185 [INRA Bb-142] TJ Poprawski. *Sitona discoideus* [Coleoptera: Curculionidae]. May 1977. France: Viols-le-Fort, Hérault.
- 1186 [INRA Bb-195] TJ Poprawski. Adult, *Caryedon serratus* [Coleoptera: Bruchidae]. 6 Jun 1983. France: La Minière.
- 1188 TJ Poprawski (E1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Elbaya.
- 1189 TJ Poprawski (A1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1190 TJ Poprawski (A3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1191 TJ Poprawski (645). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Dec 1983. France: Orléans, Loiret.
- 1192 TJ Poprawski (646). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Anet, Eure-et-Loir.
- 1193 TJ Poprawski (647). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Ecos, Eure.
- 1194 TJ Poprawski (648). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Meulan, Yvelines.
- 1269 [IRRI Pal. 2] MC Rombach. *Leptocoris oratorius* [Hemiptera: Rhopalidae] on rice. Acc'd 3 May 1984. Philippines: Palawan.
- 1270 [IRRI O2III] MC Rombach. *Leptocoris oratorius* [Hemiptera: Rhopalidae] on rice. Acc'd 3 May 1984. Philippines: Palawan.

- 1306 TJ Poprawski (83-611). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1309 TJ Poprawski (A8). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1311 TJ Poprawski (A10). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1312 TJ Poprawski (A11). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1313 TJ Poprawski (A12). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1314 TJ Poprawski (070A). 3rd instar larva, *Helicoverpa virescens* [Lepidoptera: Noctuidae]. 6 Mar 1984. France: La Minière.
- 1315 TJ Poprawski (070B). 3rd instar larva, *Helicoverpa virescens* [Lepidoptera: Noctuidae]. 6 Mar 1984. France: La Minière.
- 1316 TJ Poprawski (070C). 3rd instar larva, *Helicoverpa virescens* [Lepidoptera: Noctuidae]. 6 Mar 1984. France: La Minière.
- 1317 TJ Poprawski (074A). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 18 Mar 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1318 TJ Poprawski (074B). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 18 Mar 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1319 TJ Poprawski (076). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1320 TJ Poprawski (078). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1321 TJ Poprawski (079B). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1322 TJ Poprawski (079C). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1323 TJ Poprawski (079D). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1324 TJ Poprawski (079E). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1325 TJ Poprawski (079F). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1326 TJ Poprawski (080). Nymph, [Orthoptera: Acrididae]. 27 Jun 1983. France: Prades, Pyrénées-Orientales.
- 1389 TJ Poprawski (088). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Baron.
- 1394 TJ Poprawski (071). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 18 Aug 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1395 TJ Poprawski (075). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 23 Aug 1983. France: Saint-Denis du Pin, Seine-Saint-Denis.
- 1396 TJ Poprawski (077A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 30 Aug 1983. France: Senneville.
- 1397 TJ Poprawski (077B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 30 Aug 1983. France: Senneville.
- 1398 TJ Poprawski (086). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Marsanne, Drôme.
- 1399 TJ Poprawski (087). Adult, *Hypera postica* [Coleoptera: Curculionidae]. Mar 1984. France: Marsanne, Drôme.
- 1404 TJ Poprawski (092A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 9 Sep 1983. France: Fort la Latte.
- 1405 TJ Poprawski (092B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 9 Sep 1983. France: Fort la Latte.
- 1406 TJ Poprawski (093A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1407 TJ Poprawski (093B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1408 TJ Poprawski (094A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1409 TJ Poprawski (094B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1410 TJ Poprawski (095). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1411 TJ Poprawski (096A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1412 TJ Poprawski (096B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1413 TJ Poprawski (097). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 13 Oct 1983. France: Senneville.
- 1414 TJ Poprawski (099). Nymph, *Lygus* sp. [Hemiptera: Miridae]. May 1984. France: Senneville.
- 1450 [CNPAF 52; CP 125] F Moscardi. *Sternechus sub-signatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Londrina, Paraná.
- 1451 [CNPAF 84-3-12; CP 124] H da Silva Coelho. [Coleoptera: Chrysomelidae]. 12 Mar 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1453 [CNPAF 84-02-30-2; CP 143] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Mar 1984. Brazil: Francisco Beltrão, Paraná.
- 1454 [CNPAF 84-03-28-1F; CP 144] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1455 [CNPAF 84-03-28-D; CP 145] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.

- 1456 [CNPAP 84-04-03-6A; CP 146] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1457 [CNPAP 84-03-28-1A; CP 147] RA Daoust. *Podisus* sp. [Hemiptera: Pentatomidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1458 [CNPAP 84-03-28-1E; CP 148] RA Daoust. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1459 [CNPAP 84-04-03-1E; CP 149] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1460 [CNPAP 84-04-03-1B; CP 150] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1461 [CNPAP 84-03-29-1; CP 151] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 29 Mar 1984. Brazil: Capitão Leônidas Marques, Paraná.
- 1462 [CNPAP 84-03-28-1G; CP 152] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1463 [CNPAP 84-03-28-1L; CP 153] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1464 [CNPAP 84-04-03-6B; CP 154] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1465 [CNPAP 84-04-03-1A; CP 155] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1466 [CNPAP 84-03-31-6; CP 156] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1467 [CNPAP 84-04-02-5A; CP 157] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: São Carlos, Santa Catarina.
- 1468 [CNPAP 84-04-02-5B; CP 158] RA Daoust and BP Magalhães. [Hymenoptera: Superfamily Apoidea]. 2 Apr 1984. Brazil: São Carlos, Santa Catarina.
- 1469 [CNPAP 84-03-31-2; CP 159] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1470 [CNPAP 84-04-02-3; CP 160] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1471 [CNPAP 84-04-02-4; CP 161] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1472 [CNPAP 84-04-02-2; CP 162] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1473 [CNPAP 84-04-02-1B; CP 163] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1474 [CNPAP 84-04-02-1A; CP 164] RA Daoust, BP Magalhães and M Pinat. *Nezara viridula* [Hemiptera: Pentatomidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1475 [CNPAP 84-04-03-1C; CP 165] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1476 [CNPAP 84-04-25-1; CP 166] SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 25 Apr 1984. Brazil: CNPAP, Goiânia, Goiás.
- 1478 SB Alves (256). *Euschistus heros* [Hemiptera: Pentatomidae] on soybean. Rec'd 6 Jul 1984. Brazil: Goiás. Identification verified genomically.
- 1479 SB Alves (246). *Stenomoma decora* [Lepidoptera: Stenomatinae] on cacao. Rec'd 6 Jul 1984. Brazil: Bahia.
- 1480 SB Alves (252). *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. Rec'd 6 Jul 1984. Brazil: São Paulo.
- 1483 SB Alves (61). *Cosmopolites sordidus* [Coleoptera: Curculionidae] on banana. Rec'd 6 Jul 1984. Brazil: Espírito Santo.
- 1484 SB Alves (196). *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. Rec'd 6 Jul 1984. Brazil: Pernambuco.
- 1491 [INRA Bb-169] GG Soares. *Sitona humeralis* [Coleoptera: Curculionidae]. Mar 1981. France: Lusignan, Vienne.
- 1509 I Majchrowicz (56) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1510 I Majchrowicz (58) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1511 I Majchrowicz (75) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1512 TJ Poprawski (0102A). Adult, *Spodoptera littoralis* [Lepidoptera: Noctuidae]. 21 Jun 1984. France: La Minière.
- 1513 TJ Poprawski (0102B). Adult, *Spodoptera littoralis* [Lepidoptera: Noctuidae]. 21 Jun 1984. France: La Minière.

- 1514 TJ Poprawski (0103A). Pupa, *Musca autumnalis* [Diptera: Muscidae]. 13 Jun 1984. France: Le Trait, Seine-Maritime.
- 1515 TJ Poprawski (0107). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 13 Jun 1984. France.
- 1516 TJ Poprawski (0108). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 19 Aug 1984. France: Senneville.
- 1517 TJ Poprawski (0109). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 19 Jun 1984. France: Dagny.
- 1518 TJ Poprawski (0111). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1519 TJ Poprawski (0112). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1520 TJ Poprawski (0117A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 27 Jun 1984. France: Prades, Pyrénées-Orientales.
- 1521 TJ Poprawski (0117B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 27 Jun 1984. France: Prades, Pyrénées-Orientales.
- 1523 TJ Poprawski (0122). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. France: Ronce.
- 1524 TJ Poprawski (0123). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. France: Ronce.
- 1525 TJ Poprawski (0124A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1526 TJ Poprawski (0124B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1527 TJ Poprawski (0125). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1528 TJ Poprawski (0126). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1529 TJ Poprawski (0127A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.
- 1531 TJ Poprawski (0127B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.
- 1533 TJ Poprawski (0128A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1534 TJ Poprawski (0128B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1535 TJ Poprawski (0130A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1536 TJ Poprawski (0130B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1537 TJ Poprawski (0131A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1538 TJ Poprawski (0131B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1539 TJ Poprawski (0132). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1540 TJ Poprawski (0133A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1553 RS Soper (B). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae] on rice. 5 Jul 1984. Japan: CIBA-Geigy rearings, Osaka, Osaka Prefecture.
- 1554 RS Soper (C). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae] on rice. 5 Jul 1984. Japan: CIBA-Geigy rearings, Osaka, Osaka Prefecture.
- 1555 RS Soper (D). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae] on rice. 5 Jul 1984. Japan: CIBA-Geigy rearings, Osaka, Osaka Prefecture.
- 1556 RS Soper (E). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae] on rice. 5 Jul 1984. Japan: CIBA-Geigy rearings, Osaka, Osaka Prefecture.
- 1558 [ARSEF 1103] KV Deseö (8) ← Goidanich. Larva, *Cossula cossus* [Lepidoptera: Cossidae]. Jun 1981. Italy: Bologna, Emilia-Romagna.
- 1559 KV Deseö (88) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1560 KV Deseö (89) ← Campadelli. *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1561 KV Deseö (90) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1562 KV Deseö (91) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1563 KV Deseö (92) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1564 [CBS 111238] KV Deseö (103) ← Cortellini. Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Mar 1984. Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna. Identification verified genomically. Ex-type isolate.
- 1566 S Keller (D155). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen.
- 1619 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.

- 1620 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1621 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1622 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1623 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1624 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 30 Jul 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1627 TJ Poprawski (0104). Larva, [Lepidoptera: Noctuidae]. 13 Jun 1984. Hungary: Gödöllő.
- 1628 TJ Poprawski (0105). Larva, [Lepidoptera: Noctuidae]. 13 Jun 1984. Hungary: Gödöllő.
- 1629 TJ Poprawski (0106). Larva, [Lepidoptera: Noctuidae]. 13 Jun 1984. Hungary: Gödöllő.
- 1630 TJ Poprawski (0118A). Larva, *Calliphora* sp. [Diptera: Calliphoridae]. 27 Jun 1984. France: Sèvres, Yvelines.
- 1635 TJ Poprawski (0133B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 Jun 1984. Austria: Burgenland.
- 1636 TJ Poprawski (0134). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1637 TJ Poprawski (0135A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1638 TJ Poprawski (0135B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1640 TJ Poprawski (0137). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1643 TJ Poprawski (0140). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1647 TJ Poprawski (0143). Adult, *Sitona* sp. [Coleoptera: Curculionidae]. 22 Aug 1984. France: Orval, Ardennes.
- 1648 TJ Poprawski (0144). Adult, *Lygus* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Charente.
- 1649 TJ Poprawski (0145). Adult, *Lygus* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Drôme.
- 1650 TJ Poprawski (0146). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Saint-Denis du Pin, Seine-Saint-Denis.
- 1651 Abbott Laboratories (122-1). 1984 formulation of ARSEF 252. Acc'd 11 Oct 1984. Location not specified.
- 1652 Abbott Laboratories (106(2)). 1984 formulation of ARSEF 252. Acc'd 11 Oct 1984. Location not specified.
- 1653 Abbott Laboratories (114(2)). 1984 formulation of ARSEF 252. Acc'd 11 Oct 1984. Location not specified.
- 1654 Abbott Laboratories (112). 1984 formulation of ARSEF 252. Acc'd 11 Oct 1984. Location not specified.
- 1677 M Shimazu (F-185). *Dendrolimus spectabilis* [Lepidoptera: Lasiocampidae]. 26 Jul 1976. Japan: Ishikawa Prefecture.
- 1678 M Shimazu (F-237). *Moechotypa diphysis* [Coleoptera: Cerambycidae]. Aug 1978. Japan: Tsushima, Nagasaki Prefecture.
- 1679 M Shimazu (F-263). *Monochamus alternatus* [Coleoptera: Cerambycidae]. 25 Aug 1978. Japan: Kumamoto Prefecture.
- 1683 M Shimazu (F-359(30)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1689 Abbott Laboratories (AARC 8401-A(1)). 1984 formulation of ARSEF 252. Acc'd 5 Nov 1984. Location not specified.
- 1690 Abbott Laboratories (AARC 8401-A(2)). 1984 formulation of ARSEF 252. Acc'd 5 Nov 1984. Location not specified.
- 1691 Abbott Laboratories (AARC 8401-B). 1984 formulation of ARSEF 252. Acc'd 5 Nov 1984. Location not specified.
- 1692 Abbott Laboratories (AARC 8401-D). 1984 formulation of ARSEF 252. Acc'd 5 Nov 1984. Location not specified.
- 1704 L Allee (84-1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1705 L Allee (84-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1706 L Allee (84-4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1707 L Allee (84-5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.

- 1708 L Allee (84-7). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1709 L Allee (84-8). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1710 L Allee (84-9). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1711 L Allee (84-10). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1712 L Allee (84-11). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1713 L Allee (84-12). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1721 L Allee (84-13). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1722 L Allee (84-19). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1723 L Allee (84-20). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1747 Abbott Laboratories (124). 1984 formulation of ARSEF 252. Acc'd 6 Dec 1984. Location not specified.
- 1748 Abbott Laboratories (Bb029-13, "3 of 4"). 1983 formulation of ARSEF 252. Acc'd 6 Dec 1984. Location not specified.
- 1749 L Allee (84-16). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1750 L Allee (84-18). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1775 L Allee (84-22). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1776 L Allee (84-23). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1777 L Allee (84-24). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: insecticide-treated plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1778 L Allee (84-25). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1779 L Allee (84-26). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1780 L Allee (84-27). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1781 L Allee (84-28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1782 Abbott Laboratories (102A). 1984 formulation of ARSEF 252. Acc'd 11 Jan 1985. Location not specified.
- 1783 Abbott Laboratories (104, 106). 1984 formulation of ARSEF 252. Acc'd 11 Jan 1985. Location not specified.
- 1788 TJ Poprawski (0147). Larva, *Helicoverpa virescens* [Lepidoptera: Noctuidae]. Acc'd 22 Jan 1985. Spain.
- 1789 TJ Poprawski (0148A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1790 TJ Poprawski (0148B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1791 TJ Poprawski (0149). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1792 TJ Poprawski (0150A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1793 TJ Poprawski (0150B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1794 TJ Poprawski (0150C). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1795 TJ Poprawski (0151). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Marsanne, Drôme.
- 1796 TJ Poprawski (0152A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.

- 1797 TJ Poprawski (0152B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1798 TJ Poprawski (0152C). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1799 TJ Poprawski (0152D). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1800 TJ Poprawski (0154). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Septeuil, Yvelines.
- 1801 TJ Poprawski (0155). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Septeuil, Yvelines.
- 1802 TJ Poprawski (0156). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Heronia.
- 1803 TJ Poprawski (0157). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Heronia.
- 1804 TJ Poprawski (0158A). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1805 TJ Poprawski (0158B). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1806 TJ Poprawski (0158C). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1807 TJ Poprawski (0159A). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1808 TJ Poprawski (0159B). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1809 TJ Poprawski (0160). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bocequillas.
- 1810 TJ Poprawski (0161). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1811 TJ Poprawski (0167C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf. Identification verified genomically.
- 1812 TJ Poprawski (0163). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Thessaloniki.
- 1813 TJ Poprawski (0164A). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1814 TJ Poprawski (0164B). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1815 TJ Poprawski (0165). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1816 TJ Poprawski (0166A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1817 TJ Poprawski (0166B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1818 TJ Poprawski (0166C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1819 TJ Poprawski (0166D). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1820 TJ Poprawski (0167A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1821 TJ Poprawski (0167B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1822 TJ Poprawski (0162). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Thessaloniki.
- 1831 SB Alves (63). *Atta* sp. [Hymenoptera: Formicidae]. Rec'd 21 Jan 1985. Brazil.
- 1832 SB Alves (197). *Diatraea saccharalis* [Lepidoptera: Pyralidae]. Rec'd 21 Jan 1985. Brazil.
- 1833 SB Alves (267). *Cosmopolites* sp. [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.
- 1834 SB Alves (268). *Diatraea saccharalis* [Lepidoptera: Pyralidae]. Rec'd 21 Jan 1985. Brazil.
- 1836 SB Alves (309). *Terastia meticulosalis* [Lepidoptera: Pyralidae]. Rec'd 21 Jan 1985. Brazil.
- 1838 Abbott Laboratories (102B(2)). 1984 formulation of ARSEF 252. Acc'd 29 Jan 1985. Location not specified.
- 1839 Abbott Laboratories (106). 1984 formulation of ARSEF 252. Acc'd 29 Jan 1985. Location not specified.
- 1842 Abbott Laboratories (Bb028-5F). 1983 formulation of ARSEF 252. Acc'd 13 Feb 1985. Location not specified.
- 1843 Abbott Laboratories (Bb028-138). 1983 formulation of ARSEF 252. Acc'd 13 Feb 1985. Location not specified.
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- 2991 T Searle (LD5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 3018 CENARGEN (CG 68). *Forficula auricularia* [Dermaptera: Forficulidae]. Apr 1988. Brazil: Brasília, Distrito Federal.
- 3019 CENARGEN (CG 69). *Deois flavopicta* [Hemiptera: Cercopidae]. Apr 1988. Brazil: Brasília, Distrito Federal.
- 3020 CENARGEN (CG 86). *Diatraea saccharalis* [Lepidoptera: Pyralidae]. Rec'd 20 Jul 1990. Brazil: Pernambuco.
- 3037 W Mechaber (weevil#2354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.
- 3040 WE Jones (SHB). [Coleoptera: Scolytidae] inside macadamia nut kernel. May 1990. USA: Kona, Island of Hawaii, Hawaii.
- 3041 WE Jones (499v2). *Reticulitermes flavipes* [Isoptera: Rhinotermitidae]. Rec'd 7 Aug 1990. Canada: Toronto, Ontario.
- 3086 J Peña ← H Glenn. *Leptoglossus fulvicornis* [Hemiptera: Coreidae] on holly. 7 Sep 1990. USA: Homestead, Florida.
- 3097 Fermone Corporation (FCI-7744). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 18 Oct 1990. USA: Rio Grande Valley, Texas. **RESTRICTED ACCESS:** contact Curator.
- 3098 L Loch ← G Albuquerque. *Oryzophagus oryzae* [Coleoptera: Curculionidae] on rice. Rec'd 29 Oct 1990. Brazil: Pôrto Alegre, Rio Grande do Sul.
- 3111 DW Watson (P 89) ← L Meinke. *Diabrotica virgifera* [Coleoptera: Chrysomelidae]. 13 Sep 1990. USA: Mead, Nebraska.
- 3112 JK Cawthra and CJ Geden (P 89). [Coleoptera: Staphylinidae] originally from beef feed lot. 10 Sep 1990. USA: laboratory colony, Lincoln, Nebraska.
- 3113 [CIRI Anderson Isolate] LC Lewis. Soil isolate passed through *Ostrinia nubilalis* [Lepidoptera: Pyralidae]. Apr 1990. Laboratory manipulation: Iowa State Univ. Research Farm.
- 3120 G Mercadier and TJ Poprawski (8851). [Hemiptera: Aphididae] on *Senecio* sp. 10 Jun 1988. France: Béhoust, Yvelines.
- 3154 G Mercadier and TJ Poprawski (8809B). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Beypazari, Ankara.
- 3155 G Mercadier and TJ Poprawski (8809C). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Akyurt, Ankara.
- 3156 G Mercadier and TJ Poprawski (8809D). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. Jun 1988. Turkey: Akyurt, Ankara.
- 3157 G Mercadier and TJ Poprawski (8809E). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Güdül, Ankara.
- 3158 G Mercadier and TJ Poprawski (8809G). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Karasar, Ankara.
- 3166 G Mercadier and TJ Poprawski (8835A). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. Jun 1988. Turkey: Beypazari, Ankara.

- 3167 G Mercadier and TJ Poprawski (8835B). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Ayas, Ankara.
- 3168 G Mercadier and TJ Poprawski (8835C). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 12 Jun 1988. Turkey: Sirkeli, Ankara.
- 3169 G Mercadier and TJ Poprawski (8835D). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Urus.
- 3181 GW Riethmacher (B37a). Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. 12 Mar 1990. Philippines: Plaridel, Quezon.
- 3197 GW Riethmacher (Bet1). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3198 GW Riethmacher (Bet2). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3199 GW Riethmacher (Bet3). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3215 G Mercadier and TJ Poprawski (8854 (second form)). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 27 Nov 1990. Laboratory manipulation. Reisolate of ARSEF 3122.
- 3219 [CP 478(479?)] DW Roberts ← JM Gomes. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Rec'd 8 Feb 1991. Brazil.
- 3285 J Gutierrez Samperio (1) ← ERD Reyes. *Atta* sp. [Hymenoptera: Formicidae]. 1987. Mexico: Monterrey, Nuevo León.
- 3286 J Gutierrez Samperio (2) ← ERD Reyes. *Spodoptera littoralis* [Lepidoptera: Noctuidae]. 1987. France: Montpellier, Hérault.
- 3287 J Gutierrez Samperio (3) ← ERD Reyes. *Diabrotica* sp. [Coleoptera: Chrysomelidae] on corn. 1988. Mexico: Colima.
- 3288 J Gutierrez Samperio (4) ← ERD Reyes. *Spodoptera frugiperda* [Lepidoptera: Noctuidae] on corn. 1988. Mexico: Colima.
- 3309 J Gutierrez Samperio (25) ← ERD Reyes. *Diabrotica balteata* [Coleoptera: Chrysomelidae] on corn. 1990. Mexico: Colima.
- 3310 J Gutierrez Samperio (26) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Comala, Colima.
- 3311 J Gutierrez Samperio (27) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3312 J Gutierrez Samperio (28) ← ERD Reyes. [Hemiptera: Membracidae] on sugar cane. 1990. Mexico: Cuauhtémoc, Colima.
- 3385 I Majchrowicz (25-a). *Myzus persicae* [Hemiptera: Aphididae] on potato. 11 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 3386 I Majchrowicz (23). [Coleoptera: Carabidae] nr. potato plants. 3 Jul 1991. USA: garden nr. USDA laboratory, Yakima, Washington.
- 3403 MS Goettel. *Ceutorhynchus litura* [Coleoptera: Curculionidae]. Rec'd 6 Mar 1992. Location not specified.
- 3404 AE Hajek (24). *Lymantria dispar* [Lepidoptera: Lymantriidae]. 3 Jun 1991. USA: C & O Canal, Allegany County, Maryland.
- 3437 [CATIE 1] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Rec'd 28 Oct 1991. Costa Rica: Turrialba, Cartago.
- 3438 [CATIE 2] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3439 [CATIE 3] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3440 [CATIE 4] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3441 [CATIE 5] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3442 [CATIE 6] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3443 [CATIE 7] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3444 [CATIE 8] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3445 [CATIE 9] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3446 [CATIE 10] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Aug 1991. Costa Rica: Turrialba, Cartago.
- 3447 [CATIE 11] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3448 [CATIE 12] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3449 [CATIE 13] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3450 [CATIE 14] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3451 [CATIE 15] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3452 [CATIE 16] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.

- 3453 [CATIE 17] TG Zoebisch. *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica*. Rec'd 28 Oct 1991. Nicaragua: Managua.
- 3454 [CATIE 18] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3455 [CATIE 19] TG Zoebisch. *Notonata* sp. [Coleoptera: Chrysomelidae] on *Bixa orellana*. Jul 1991. Costa Rica: Turrialba, Cartago.
- 3456 [CATIE 20] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3457 [CATIE 21] TG Zoebisch. [Coleoptera: Languriidae] on *Macadamia integrifolia*. Sep 1991. Costa Rica: Turrialba, Cartago.
- 3460 SV Krueger (540). Soil. Jun 1991. USA: Smith Forest, Trumansburg, New York.
- 3462 MS Goettel (MISI). Soil. 12 Jul 1991. Canada: nr. Magrath, Alberta.
- 3477 CENARGEN (CG 187). Soil. 1990. Brazil: Pelotas, Rio Grande do Sul.
- 3513 I Quintela (VL5). Rec'd 13 Dec 1991. Location not specified.
- 3514 I Quintela (VL6). Rec'd 13 Dec 1991. Colombia.
- 3515 I Quintela (VL7). Rec'd 13 Dec 1991. Location not specified.
- 3516 I Quintela. Rec'd 13 Dec 1991. Location not specified.
- 3527 AE Hajek (58a). 6th instar larva, *Lymantria dispar* [Lepidoptera: Lymantriidae]. 13 Jun 1991. USA: nr. Ruckersville, Greene County, Virginia.
- 3530 AE Hajek (220b). *Lymantria dispar* [Lepidoptera: Lymantriidae]. 10 Jun 1991. USA: nr. Piclic Run, Allegany County, Maryland.
- 3534 SM DeFazio and PD McKown (C-7). *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1991. Location not specified.
- 3543 M Brownbridge (B-33). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. 19 Nov 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3607 IMI (I91-612). *Anacridium aegyptium* [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. Greece: Crete.
- 3620 IMI (Mycotech). *Melanoplus* sp. [Orthoptera: Acrididae]. Rec'd 26 Feb 1992. USA. **RESTRICTED ACCESS:** contact Curator.
- 3622 IMI (331275). [Orthoptera]. Rec'd 26 Feb 1992. USA.
- 3667 AE Hajek (BFMS). [Coleoptera: Curculionidae]. Apr 1991. USA: New York.
- 3681 LS Osborne. Organic Naturalis. Rec'd Apr 1992. Location not specified.
- 3716 RA LeBrun ← J Hanula (C-2). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1992. Location not specified.
- 3717 RA LeBrun ← J Hanula (C-3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 3734 SB Alves (447). Rec'd 12 Jun 1992. Location not specified.
- 3769 DC Steinkraus. *Lygus lineolaris* [Hemiptera: Miridae]. 12 Jun 1992. USA: Little River County, Arkansas.
- 3818 ERD Reyes (BbCO1). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] coffee. 9 Oct 1992. Mexico: Oaxaca.
- 3819 ERD Reyes (BbCO2). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. 9 Oct 1992. Mexico: Oaxaca.
- 3825 S Walsh (3762T5) ← ARSEF (3762). Rec'd 19 Feb 1993. Laboratory manipulation.
- 3858 [JB Tavares BRA-000035] MS Tigano-Milani (CG-86). *Diatraea saccharalis* [Lepidoptera: Pyralidae]. Rec'd 13 Jan 1993. Brazil.
- 3866 LA Lacey (92214). *Melanoplus* sp. [Orthoptera: Acrididae]. 19 Nov 1992. Greece: Crete.
- 3867 LA Lacey (92178) ← A Farias. *Diuraphis noxia* [Hemiptera: Aphididae]. 28 Jul 1992. France: Montpellier, Hérault.
- 3890 [ARSEF 3385] N Underwood (U3385). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3891 [ARSEF 3166] N Underwood (3166). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3892 N Underwood (2457). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3893 LA Lacey (92179) ← A Farias. *Diuraphis noxia* [Hemiptera: Aphididae]. 28 Jul 1993. France: Montpellier, Hérault.
- 3897 LA Lacey (92219). *Melanoplus* sp. [Orthoptera: Acrididae]. 19 Nov 1992. Greece: Iráklion, Crete.
- 3898 LA Lacey (92223). *Melanoplus* sp. [Orthoptera: Acrididae]. 19 Nov 1992. Greece: Iráklion, Crete.
- 3905 [ARSEF 2882] N Underwood (U2882). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 5 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3906 [ARSEF 1555] N Underwood (U1555). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3907 [ARSEF 2320] N Underwood (U2320). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3908 [ARSEF 3908] N Underwood (U3908). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3927 DR Sosa-Gómez (CNPSo-Bb46). Host not specified. Rec'd Jun 1993. Location not specified. Reisolate of either ARSEF 944 or 933: not specified.

- 3934 DR Sosa-Gómez (CNPSO-Bb56). Host not specified. Rec'd Jun 1993. Location not specified. Reisolate of either ARSEF 944 or 933: not specified.
- 3937 DR Sosa-Gómez (CNPSO-P23). [Lepidoptera: Noctuidae: Plusiinae]. 19 Jan 1990. Brazil: Londrina, Paraná.
- 3966 LA Lacey (93003) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3967 LA Lacey (93004) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3968 LA Lacey (93005) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3969 LA Lacey (93006) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3970 LA Lacey (93007) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3971 LA Lacey (93008) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 3972 LA Lacey (93009) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3973 LA Lacey (93010) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3974 LA Lacey (93011) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3975 LA Lacey (93012) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3977 LA Lacey (93014) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3978 LA Lacey (93015) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3979 LA Lacey (93016) ← F Herard. Larva, *Cydia pomon-ella* [Lepidoptera: Tortricidae]. 4 May 1993. France: Le Vigan, Gard.
- 3995 LA Lacey (93032) ← A Lacasa. *Frankliniella occi-dentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3996 LA Lacey (93033) ← A Lacasa. *Frankliniella occi-dentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3999 LA Lacey (93036) ← Hermes. [Hemiptera: Membraci-dae]. 4 Apr 1993. Brazil: Bahia.
- 4001 [A Mesquita ] LA Lacey (93038). *Crimissa cruralis* [Coleoptera: Chrysomelidae]. 3 May 1993. Brazil: Pacajus, Ceará.
- 4012 T Steenberg (194) ← M Steen. *Delia radicum* [Dip-tera: Anthomyiidae]. Jul 1989. Denmark: Insect Rearing Unit, Zealand.
- 4013 T Steenberg (195) ← A Kirkeby-Thomse. *Sitona lineatus* [Coleoptera: Curculionidae]. Sep 1993. Denmark: Copenhagen, Tåstrup, Zealand.
- 4014 T Steenberg (195-S) ← A Kirkeby-Thomse. Sep 1989. Laboratory manipulation: Single spore isolate of ARSEF 4013.
- 4015 T Steenberg (196) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Sep 1989. Denmark: Falster, Storstrøm.
- 4016 T Steenberg (201) ← V Langer. *Sitona lineatus* [Coleoptera: Curculionidae] on white clover. Mar 1990. Denmark: Ringsted, Zealand.
- 4017 T Steenberg (201-S) ← V Langer. Mar 1990. Labo-ratory manipulation: Single spore isolate of ARSEF 4016.
- 4018 T Steenberg (202) ← J Eilenberg. *Coccinella septem-punctata* [Coleoptera: Coccinellidae]. Mar 1990. Denmark: Jægerspris, Zealand.
- 4019 T Steenberg (205) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Mar 1990. Denmark.
- 4021 T Steenberg (212) ← HP Ravn. *Sitona lineatus* [Co-leoptera: Curculionidae] on pea. Jul 1990. Denmark: Pajbjerg, Jutland.
- 4023 T Steenberg (217). *Apion* sp. [Coleoptera: Curculion-idae] on alfalfa. Oct 1990. Denmark: Copenhagen, Tåstrup, Zealand.
- 4026 T Steenberg (228). Phylum Arthropoda, Class Insecta soil. Nov 1990. Denmark: Næstved, Zealand.
- 4028 T Steenberg (233) ← CW Riedel. *Tachyporus* sp. [Coleoptera: Staphylinidae]. Jan 1991. Denmark: Svanholm, Zealand.
- 4030 Acc'd 8 Dec 1993.
- 4031 T Steenberg (237) ← CW Riedel. *Amara plebeja* [Co-leoptera: Carabidae]. Jan 1991. Denmark: Foulum, Jutland.
- 4032 T Steenberg (238) ← CW Riedel. *Bembidion lam-pros* [Coleoptera: Carabidae]. Jan 1991. Denmark: Svanholm, Zealand.
- 4034 T Steenberg (240). *Amara familiaris* [Coleoptera: Carabidae]. Mar 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4035 T Steenberg (244) ← A Kirkeby-Thomse. [Het-eroptera: Miridae] Alfalfa. Sep 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4038 T Steenberg (253). *Hypera postica* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4041 T Steenberg (261). *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.

- 4042 T Steenberg (264). [Araneida] extracted from turf of *Medicago sativa*. Dec 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4046 T Steenberg (276) ← V Langer. *Anotylus* sp. [Coleoptera: Staphylinidae]. Nov 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4049 T Steenberg (298). *Hypera postica* [Coleoptera: Curculionidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4051 T Steenberg (349). *Anotylus rugosus* [Coleoptera: Staphylinidae]. Nov 1992. Denmark: Brenderup, Fyn.
- 4052 T Steenberg (355). [Coleoptera: Curculionidae]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4053 T Steenberg (356). *Lygus* sp. [Heteroptera: Miridae]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4054 T Steenberg (359). *Gyrophynus angustatus* [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4055 T Steenberg (362). [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Brenderup, Fyn.
- 4056 T Steenberg (365). *Anotylus rugosus* [Coleoptera: Staphylinidae]. Oct 1992. Denmark: Brenderup, Fyn.
- 4057 T Steenberg (426). [Heteroptera]. Oct 1992. Denmark: Copenhagen, Tåstrup, Zealand.
- 4091 LA Lacey (94001). *Tibraca limbativentres* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4092 LA Lacey (94002). *Nezara viridula* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4093 LA Lacey (94003). *Nezara viridula* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4099 [ARSEF 2879] J McManus (DnBb2g4p.ss1). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolate of ARSEF 4108.
- 4100 [ARSEF 2879] J McManus (DnBb2g4p.ss2). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolate of ARSEF 4108.
- 4101 [ARSEF 2879] J McManus (DnBb2g4p.ss3). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolate of ARSEF 4108.
- 4105 [ARSEF 2879] JD Vandenberg (DnBb2j3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation. Reisolate of ARSEF 2879.
- 4106 JD Vandenberg (DnBb2i3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4107 JD Vandenberg (DnBb2h2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4108 JD Vandenberg (DnBb2g2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4109 JD Vandenberg (DnBb2d2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4110 JD Vandenberg (DnBb2b2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4111 JD Vandenberg (DnBb2e2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4112 JD Vandenberg (DnBb2f2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4113 JD Vandenberg (DnBb1a3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4114 JD Vandenberg (DnBb1b3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4115 JD Vandenberg (DnBb1c3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4116 JD Vandenberg (DnBb1d3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4117 JD Vandenberg (DnBb1e3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4118 JD Vandenberg (DnBb1f3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4119 JD Vandenberg (DnBb1g3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4120 JD Vandenberg (DnBb1h4p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4121 JD Vandenberg (DnBb1j4p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.



- 4122 S Gupta (2934). Rec'd 3 May 1994. Found as a contaminant in ARSEF 2934.
- 4130 [DAT 7; RJ Milner F11] AC Rath (F007). *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Jul 1979. Australia: Guyra, New South Wales.
- 4135 [DAT 15] AC Rath (F015). Larva, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 9 Mar 1986. Australia: Laboratory, Newtown, Tasmania.
- 4136 [DAT 17] AC Rath (F017). Larva, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 9 Mar 1986. Australia: Laboratory, Newtown, Tasmania.
- 4200 LA Lacey (94013) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 28 Feb 1993. Spain: Murcia.
- 4258 [DAT 49] AC Rath (F049). Larva, *Oncopera intricata* [Lepidoptera: Hepialidae]. 6 Nov 1987. Australia: Sorell, Tasmania.
- 4276 [DAT 99] AC Rath (F099) ← H Yip. Soil. 7 Jan 1988. Australia: Weld Pass, Tasmania.
- 4289 [DAT 500] AC Rath (F500). Soil. Rec'd 6 Jun 1994. Australia: Macquarie Island.
- 4305 [DAT 327] AC Rath (F327) ← H Yip (HY31). Soil. Rec'd 6 Jun 1994. Australia: Fairfield, Epping Forest, Tasmania.
- 4377 LA Lacey (94106). Soil. 25 Apr 1994. Japan: Hokkaido University, Hokkaido Prefecture.
- 4378 LA Lacey (94107). Soil. 25 Apr 1994. Japan: Hokkaido University, Hokkaido Prefecture.
- 4379 LA Lacey (94108). Soil. 25 Apr 1994. Japan: Hokkaido University, Hokkaido Prefecture.
- 4382 LA Lacey (94140) ← CAAS (93.1). [Coleoptera]. 7 May 1994. Location not specified.
- 4462 J McManus (DnBb203PSS#1). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4463 J McManus (DnBb203PSS#2). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4464 J McManus (DnBb203PSS#3). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4523 JD Vandenberg (APH3). [Hemiptera: Aphididae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.
- 4524 JD Vandenberg (APH6). [Hemiptera: Aphididae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.
- 4525 JD Vandenberg (DBM1b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] on broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4526 JD Vandenberg (DBM1b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4527 JD Vandenberg (DBM2a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4528 JD Vandenberg (DBM2b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4529 JD Vandenberg (DBM3a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4530 JD Vandenberg (DBM3b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4531 JD Vandenberg (DBM4a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4532 JD Vandenberg (DBM4b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4533 JD Vandenberg (DBM5a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4534 JD Vandenberg (DBM5b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4535 JD Vandenberg (DBM6a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4536 JD Vandenberg (DBM6b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4537 JD Vandenberg (DBM8a). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4538 JD Vandenberg (DBM8b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4539 JD Vandenberg (DBM10b). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae] broccoli. 30 Aug 1993. USA: Ontario County, New York.
- 4540 J Altre (BB5B#1). 4th instar larva, *Plutella xylostella* [Lepidoptera: Plutellidae] Artificial diet. 25 Apr 1994. USA: USDA-ARS-PPRU, Ithaca, New York. Single spore isolate of ARSEF 4534.
- 4541 J Altre (BB5B#2). 4th instar larva, *Plutella xylostella* [Lepidoptera: Plutellidae] Artificial diet. 25 Apr 1994. USA: USDA-ARS-PPRU, Ithaca, New York. Single spore isolate of ARSEF 4534.
- 4542 J Altre (BB5B#3). 4th instar larva, *Plutella xylostella* [Lepidoptera: Plutellidae] Artificial diet. 25 Apr 1994. USA: USDA-ARS-PPRU, Ithaca, New York. Single spore isolate of ARSEF 4534.

- 4543 J Altre (BB5B#4). 4th instar larva, *Plutella xylostella* [Lepidoptera: Plutellidae] Artificial diet. 25 Apr 1994. USA: USDA-ARS-PPRU, Ithaca, New York. Single spore isolate of ARSEF 4534.
- 4589 [DAT 42] AC Rath (F42) ← RJ Milner (F125). Larva, *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 13 Feb 1980. Australia: Ebor, New South Wales.
- 4607 [DAT 41] AC Rath (F041) ← RJ Milner (F117). Larva, *Oncopera alboguttata* [Lepidoptera: Hepialidae]. 6 Dec 1976. Australia: Ebor, New South Wales.
- 4616 [DAT 84] AC Rath (F084). Soil. 30 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4642 [DAT 16] AC Rath (F016). Larva, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 3 Sep 1986. Australia: Laboratory, Newtown, Tasmania.
- 4667 [DAT 509] AC Rath (F509). Phylum Arthropoda, Class Insecta. 11 Feb 1994. USA: Univ. of Florida, Homestead, Florida.
- 4672 [DAT 48] AC Rath (F048). Larva, *Oncopera intricata* [Lepidoptera: Hepialidae]. 30 Sep 1987. Australia: Plenty, Tasmania.
- 4675 [DAT 358] AC Rath (F358) ← H Yip (HY223). Soil. 28 Oct 1988. Australia: Avoca, Tasmania.
- 4679 [DAT 112] AC Rath (F112). Soil. 3 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4685 [DAT 115] AC Rath (F115). Soil. 14 Jan 1988. Australia: Lockfaine Benham, Avoca, Tasmania.
- 4686 [DAT 83] AC Rath (F083). Host not specified. Rec'd 9 Sep 1994. Location not specified.
- 4688 KT Hodge (kth24). [Odonata: suborder Anisoptera]. 31 Aug 1994. USA: Cornell University wildflower garden, Ithaca, New York.
- 4691 J McManus (DnBb30.252.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. Manipulation., Ithaca, New York. Reisolate of ARSEF 252. Passed through RWA.
- 4692 J McManus (DnBb30.320.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 320 passed through RWA.
- 4693 J McManus (DnBb30 and 708.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 708 passed through RWA.
- 4694 J McManus (DnBb25 and 2882.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 2882 passed through RWA.
- 4695 J McManus (DnBb30 and 2883.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 2883 passed through RWA.
- 4696 J McManus (DnBb30 and 3385.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 3385 passed through RWA.
- 4697 J McManus (DnBb25 and F-1.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. An isolate from grasshoppers named F-2 was passed through and reisolated from RWA during a screening assay.
- 4728 [DAT 193] AC Rath (F193) ← H Yip (HY168). Soil. 26 Sep 1988. Australia: Springmere, Beaconsfield, Tasmania.
- 4744 [DAT 346] AC Rath (F346) ← H Yip (HY13). Soil. 30 Dec 1987. Australia: The Braes, Woodbury, Tasmania.
- 4798 J Brito (7A). *Cosmopolites sordidus* [Coleoptera: Curculionidae]. Rec'd 14 Oct 1994. West Africa: Cape Verde Islands.
- 4799 J Brito (14A). *Cosmopolites sordidus* [Coleoptera: Curculionidae]. Rec'd 14 Oct 1994. West Africa: Cape Verde Islands.
- 4866 BL Parker (AVRDC-0511B). Soil. 10 Nov 1994. Republic of China: AVRDC Field #92, Taiwan.
- 4973 J McManus (HcBbV64 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. Rec'd 30 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4974 J McManus (HcBbF66.1 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4975 J McManus (HcBbF66.2 2p). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae]. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4976 J McManus (DnBbV64.1 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4977 J McManus (DnBbV64.2 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4978 J McManus (DnBbV64.3 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4979 J McManus (DnBbV64.4 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4980 LA Lacey (95040). Adult, *Tomicus minor* [Coleoptera: Scolytidae]. 6 Apr 1995. France: Saint-Etienne, de Gourgas.
- 4981 LA Lacey (95036) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.

- 4982 LA Lacey (95037) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 4983 LA Lacey (95038) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 4984 LA Lacey (95039) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 5063 LA Lacey (95055). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5064 LA Lacey (95056). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5065 LA Lacey (95057). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5066 LA Lacey (95058). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5067 LA Lacey (95059). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5068 LA Lacey (95061). *Cydia pomonella* [Lepidoptera: Tortricidae]. 12 Oct 1995. France: Port d' Hérault.
- 5069 LA Lacey (95060). [Hymenoptera: Formicidae]. 12 Oct 1995. France: Port d' Hérault.
- 5071 LA Lacey (95063). *Tomiscus minor* [Coleoptera: Scolytidae]. 5 Oct 1995. France: Lodéve, Hérault.
- 5072 LA Lacey (95064). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodéve, Hérault.
- 5148 DL Hostetter (T090). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 29 Jan 1996. Portugal: Terceira Island, Azores.
- 5150 DL Hostetter (T103). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 29 Jan 1996. Portugal: Terceira Island, Azores.
- 5169 S Gouli (GA-81). [Lepidoptera: Tortricidae] on *Tsuga canadensis*. 29 Jan 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5170 S Gouli (GA-82). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 29 Jan 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5171 S Gouli (GA-83). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Feb 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5172 S Gouli (GA-84). [Araneida: Araneae]. 29 May 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.
- 5173 S Gouli (GA-85). [Araneida: Araneae]. 24 May 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.
- 5195 RA LeBrun. Larva, *Lilioceris lili* [Coleoptera: Chrysomelidae]. Rec'd 20 May 1996. URI.
- 5228 LA Lacey (96006). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5229 LA Lacey (96007). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5230 LA Lacey (96008). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5231 LA Lacey (96009). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5232 LA Lacey (96010). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5233 LA Lacey (96011). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5234 LA Lacey (96012). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5235 LA Lacey (96013). *Cydia pomonella* [Lepidoptera: Tortricidae]. 24 May 1996. France: Pont d' Hérault, Hérault.
- 5273 SARL (33) ← SP Wraight (SARL 33) ← APHIS (WFP-361) and LA Lacey (92221). *Melanoplus* sp. [Orthoptera: Acrididae]. 19 Nov 1992. Greece: Crete.
- 5274 SARL (41) ← SP Wraight (Lacey 92221-Bt1) ← L Lacey (92221-Bt1) and SARL (33). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5275 SARL (106) ← SP Wraight (252-Bt-1; SPW-42) ← ARSEF (252). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5276 SARL (107) ← SP Wraight (252 Bt-2; SPW-43) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5277 SARL (108) ← SP Wraight (252-Bt-3; SPW-44) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.
- 5278 SARL (110) ← SP Wraight (252-Bt-1) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5279 SARL (111) ← SP Wraight (252-Bt-3) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5280 SARL (112) ← SP Wraight (252-BT-4) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5281 SARL (122) ← SP Wraight (252-Bt-5) ← ARSEF (252) ← SARL (22). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.

- 5282 SARL (123) ← SP Wraight (252-Bt-6) ← SARL (22) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Apr 1993. Location not specified: Laboratory manipulation.
- 5283 SARL (133) ← SARL (133) ← SP Wraight (252-Bt-1) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 9 Aug 1996. USA: Laboratory manipulation/Field trail, Phoenix, Arizona.
- 5284 SARL (134) ← SP Wraight (252-BT-2) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 9 Aug 1996. USA: Laboratory manipulation/Field trail, Phoenix, Arizona.
- 5285 SARL (144) ← SP Wraight (252-Bt-x3) ← ARSEF (252). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.
- 5286 SARL (155) ← TJ Poprawski ← ARSEF (252). *Lepitotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 9 Aug 1996. Location not specified.
- 5287 SARL (160) ← RI Carruthers, JC Legaspi and TJ Poprawski (9436). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5288 SARL (161) ← RI Carruthers, JC Legaspi and TJ Poprawski (9446). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5289 SARL (162) ← RI Carruthers, JC Legaspi and TJ Poprawski (9432). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5290 SARL (163) ← RI Carruthers, JC Legaspi and TJ Poprawski (9474). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5291 SARL (164) ← RI Carruthers, JC Legaspi and TJ Poprawski (9499). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5292 SARL (165) ← RI Carruthers, JC Legaspi and TJ Poprawski (9494). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5293 SARL (166) ← RI Carruthers, JC Legaspi and TJ Poprawski (9485). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5294 SARL (167) ← RI Carruthers, JC Legaspi and TJ Poprawski (9480). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5295 SARL (168) ← RI Carruthers, JC Legaspi and TJ Poprawski (9429). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5296 SARL (169) ← RI Carruthers, JC Legaspi and TJ Poprawski (9423). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5339 DW Watson (P 89) ← CJ Geden (P 89). *Musca domestica* [Diptera: Muscidae]. Summer 1989. USA: Powell Farm, Seneca County, New York.
- 5340 DW Watson (L 89) ← CJ Geden (L 89). *Musca domestica* [Diptera: Muscidae]. Summer 1989. USA: Lockwood Farm, Cayuga County, New York.
- 5341 DW Watson (W 89) ← CJ Geden (W 89). *Musca domestica* [Diptera: Muscidae]. Summer 1989. USA: Wood Farm, Schuyler County, New York.
- 5342 DW Watson (B 90) ← CJ Geden (B 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Bishop Farm, Cayuga County, New York.
- 5343 DW Watson (D 90) ← CJ Geden (D 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Dann Farm, Tompkins County, New York.
- 5344 DW Watson (H 90) ← CJ Geden (H 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Howland Farm, Tioga County, New York.
- 5345 DW Watson (L 90) ← CJ Geden (L 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Lockwood Farm, Cayuga County, New York.
- 5346 DW Watson (Pow 90) ← CJ Geden (Pow 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Power Farm, Cortland County, New York.
- 5347 DW Watson (W 90) ← CJ Geden (W 90). *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Wood Farm, Schuyler County, New York.
- 5436 TJ Poprawski (TJP901) ← G Mercadier (EBCL 97001). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5437 TJ Poprawski (TJP902) ← G Mercadier (EBCL 97002). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5438 TJ Poprawski (TJP903) ← G Mercadier (EBCL 97003). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5439 TJ Poprawski (TJP904) ← G Mercadier (EBCL 97004). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5440 TJ Poprawski (TJP905) ← G Mercadier (EBCL 97005). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5441 TJ Poprawski (TJP906) ← G Mercadier (EBCL 97027). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Jan 1997. Ivory Coast: RCI.3, Ayenoua.

- 5442 TJ Poprawski (TJP907) ← G Mercadier (EBCL 97028). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5443 TJ Poprawski (TJP908) ← G Mercadier (EBCL 97016). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5444 TJ Poprawski (TJP909) ← G Mercadier (EBCL 97017). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5445 TJ Poprawski (TJP910) ← G Mercadier (EBCL 97018). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5446 TJ Poprawski (TJP911) ← G Mercadier (EBCL 97019). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5447 TJ Poprawski (TJP912) ← G Mercadier (EBCL 97020). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5448 TJ Poprawski (TJP913) ← G Mercadier (EBCL 97021). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5449 TJ Poprawski (TJP914) ← G Mercadier (EBCL 97022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5450 TJ Poprawski (TJP915) ← G Mercadier (EBCL 97023). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5451 TJ Poprawski (TJP916) ← G Mercadier (EBCL 97024). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5452 TJ Poprawski (TJP917) ← G Mercadier (EBCL 97025). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5453 TJ Poprawski (TJP918) ← G Mercadier (EBCL 97026). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 5459 TJ Poprawski (TJP924) ← G Mercadier (EBCL 97029). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5460 TJ Poprawski (TJP925) ← G Mercadier (EBCL 97030). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5465 TJ Poprawski (TJP930). Overwintering adult, *Galerucella* sp. [Coleoptera: Chrysomelidae]. Rec'd 9 May 1997. USA: USDA-APHIS-PPQ Biocontrol Laboratory, Mission, Texas.
- 5466 TJ Poprawski (TJP931). Soil. 19 Nov 1996. USA: potato field sprayed with Mycotrol-ES; 10 cm deep., Larimore, North Dakota.
- 5467 TJ Poprawski (TJP932). Soil. 19 Nov 1996. USA: potato field sprayed with Mycotrol-ES; 20 cm deep., Larimore, North Dakota.
- 5468 TJ Poprawski (TJP933). Soil. 19 Nov 1996. USA: potato field sprayed with Mycotrol-ES; 20 cm deep., Larimore, North Dakota.
- 5477 G Mercadier (EBCL 97006). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
- 5478 G Mercadier (EBCL 97007). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5479 G Mercadier (EBCL 97008). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5480 G Mercadier (EBCL 97009). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5481 G Mercadier (EBCL 97010). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5482 G Mercadier (EBCL 97032). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Jan 1997. Ivory Coast: RCI.3, Ayenoua.
- 5483 G Mercadier (EBCL 97033). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Jan 1997. Ivory Coast: RCI.3, Ayenoua.
- 5484 G Mercadier (EBCL 97034). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.6, Toumbokri.
- 5485 G Mercadier (EBCL 97036). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5486 G Mercadier (EBCL 97037). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5487 G Mercadier (EBCL 97038). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
- 5488 G Mercadier (EBCL 97039). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5489 G Mercadier (EBCL 97040). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.

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- 5493 M Brownbridge (FREY2). *Aphis gossypii* [Hemiptera: Aphididae]. Rec'd 16 May 1997. USA: Pennsylvania.
- 5494 M Brownbridge (FREY3). *Aphis gossypii* [Hemiptera: Aphididae]. Rec'd 16 May 1997. USA: Pennsylvania.
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- 5496 M Brownbridge (EW2). [Dermaptera]. Rec'd 16 May 1997. USA: Burlington, Vermont.
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- 5501 C López Lastra ← G Dalbello (#7). *Xanthogaleruca luteola* [Coleoptera: Chrysomelidae] on *Ulmus* sp. . 1994. Argentina: La Plata, Buenos Aires.
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- 5533 SP Wraight. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 5 Jul 1997. USA: Homer Thompson Farm, potato variety test plots of Ward M. Tingey, Freeville, New York.
- 5534 SP Wraight. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 5 Jul 1997. USA: Homer Thompson Farm, potato variety test plots of Ward M. Tingey, Freeville, New York.
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- 5536 SP Wraight. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 5 Jul 1997. USA: Homer Thompson Farm, potato variety test plots of Ward M. Tingey, Freeville, New York.
- 5537 SP Wraight. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 5 Jul 1997. USA: Homer Thompson Farm, potato variety test plots of Ward M. Tingey, Freeville, New York.
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- 5623 I Vänninen (SF86-9). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 28 Aug 1986. Finland: Närpiö, Vaasan Lääni.
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- 5634 ST Jaronski (ER37). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1996. Ethiopia: Eastern lowlands of coastal Eritrea, Shelsela.
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- 5639 ST Jaronski (ER65). *Schistocerca gregaria* [Orthoptera: Acrididae]. 1996. Ethiopia: Eastern lowlands of coastal Eritrea, near Shelsela.
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- 6011 BL Parker ← V Gouli (SPT-R-159). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
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- 6039 BL Parker ← V Gouli (SPT-R-148). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6040 BL Parker ← V Gouli (SPT-R-152). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6041 BL Parker ← V Gouli (SPT-R-153). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6042 BL Parker ← V Gouli (SPT-R-158). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6055 BL Parker (SPT-U-250). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6056 BL Parker (SPT-U-251). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6057 BL Parker (SPT-U-253). Adult, [Coleoptera: Tenebrionidae]. 16 Jan 1999. Uzbekistan: SW of Sazagan, Sazagan.
- 6058 BL Parker (SPT-U-254). Adult, [Coleoptera: Scarabaeidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6059 BL Parker (SPT-U-255). Pupa, [Coleoptera: Carabidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6060 BL Parker (SPT-U-259). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6061 BL Parker (SPT-U-261). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6062 BL Parker (SPT-U-262). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6063 BL Parker (SPT-U-263). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6064 BL Parker (SPT-U-264). Adult, [Coleoptera: Tenebrionidae]. 13 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.
- 6065 BL Parker (SPT-U-267). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiiia.
- 6066 BL Parker (SPT-U-268). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiiia.
- 6067 BL Parker (SPT-U-269). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiiia.

- 6069 BL Parker (SPT-U-272). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6070 BL Parker (SPT-U-273). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6072 BL Parker (SPT-U-291). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6073 BL Parker (SPT-U-292). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6074 BL Parker (SPT-U-293). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6075 BL Parker (SPT-U-294). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6076 BL Parker (SPT-U-300). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6077 BL Parker (SPT-U-305). Adult, [Coleoptera: Tenebrionidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6078 BL Parker (SPT-U-308). Adult, [Coleoptera: Tenebrionidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6079 BL Parker (SPT-U-310). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6083 BL Parker (SPT-U-260). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6086 BL Parker (SPT-2-309/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6087 BL Parker (SPT-2-312). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6088 BL Parker (SPT-2-315). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6089 BL Parker (SPT-2-318). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6090 BL Parker (SPT-2-319/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6091 BL Parker (SPT-2-321/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6092 BL Parker (SPT-U-323). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6093 BL Parker (SPT-U-326). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: Site c, SW of Samarkand, Mirankul region.
- 6095 BL Parker (SPT-U-335). Adult, [Coleoptera: Coccinellidae]. 17 Jan 1999. Uzbekistan: GPS coordinates - N 39°53.843', E 067°41.643'.
- 6096 BL Parker (SPT-U-338). Adult, [Coleoptera: Tenebrionidae]. Jan 1999. Uzbekistan: GPS coordinates - N 39°26.295', E 067°20.041'.
- 6099 BL Parker (SPT-U-354/2). Adult, [Coleoptera: Carabidae]. 13 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.
- 6100 BJ Hicks (A). *Panolis flammea* [Lepidoptera: Noctuidae]. Rec'd Jan 1999. United Kingdom: Moray District, Scotland.
- 6101 BJ Hicks (B). *Panolis flammea* [Lepidoptera: Noctuidae]. Rec'd Jan 1999. United Kingdom: Moray District, Scotland.
- 6109 BL Parker (SPT-U-257). Pupa, [Lepidoptera]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6111 BL Parker (SPT-U-295). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6112 BL Parker (SPT-U-296). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6113 BL Parker (SPT-U-297). Adult, [Coleoptera: Tenebrionidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6115 BL Parker (SPT-U-349). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6147 HK Kaya (2). Pupa, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 25 Jan 1999. USA: Sustainable Agriculture Farming Systems Project at UC Davis, Yolo County, California.
- 6148 HK Kaya (5). Pupa, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 25 Jan 1999. USA: Sustainable Agriculture Farming Systems Project at UC Davis, Yolo County, California.
- 6149 BL Parker (SPT-3-372). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Feb 1999. Syria: Al Kseabiia.
- 6150 SP Wright (DBM 28° #2 5P). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Apr 1999. USA: Ithaca, New York. Laboratory re-isolation from Mycotech GHA Lot #10/23/97 after 5 serial passes through *Plutella xylostella* grown at 28°C. **RESTRICTED ACCESS: contact Curator.**
- 6151 SP Wright (DBM 28° #3 5P). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Apr 1999. USA: Ithaca, New York. Laboratory re-isolation from Mycotech GHA Lot #10/23/97 after 5 serial passes through *Plutella xylostella* grown at 28°C. **RESTRICTED ACCESS: contact Curator.**

- 6152 SP Wraight (DBM 31° #1 5P). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Apr 1999. USA: Ithaca, New York. Laboratory re-isolation from Mycotech GHA Lot #10/23/97 after 5 serial passes through *Plutella xylostella* grown at 31°C. **RESTRICTED ACCESS:** contact Curator.
- 6153 SP Wraight (DBM 31° #2 5P). Larva, *Plutella xylostella* [Lepidoptera: Plutellidae]. 22 Apr 1999. USA: Ithaca, New York. Laboratory re-isolation from Mycotech GHA Lot #10/23/97 after 5 serial passes through *Plutella xylostella* grown at 31°C. **RESTRICTED ACCESS:** contact Curator.
- 6177 BJ Hicks (1). *Panolis flammea* [Lepidoptera: Noctuidae]. Jul 1998. United Kingdom: Dallas Forest, Moray District, Scotland.
- 6178 BJ Hicks (2). *Panolis flammea* [Lepidoptera: Noctuidae]. Jul 1998. United Kingdom: Dallas Forest, Moray District, Scotland.
- 6182 FE Vega (EBCL 99013). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 18 Dec 1998. France: Andard.
- 6184 FE Vega (EBCL 99018). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 14 Jan 1999. France: Le Calvaire.
- 6186 FE Vega (EBCL 99021). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 10 Dec 1998. France: Chez Moitou.
- 6187 FE Vega (EBCL 99022). Adult, *Cydia pomonella* [Lepidoptera: Tortricidae]. 21 Dec 1998. Bulgaria.
- 6189 FE Vega (EBCL 99025). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 22 Feb 1999. France: Arre.
- 6191 FE Vega (EBCL 99028). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 13 Jan 1999. France: Crèvecoeur.
- 6194 FE Vega (EBCL 99032). Adult, *Cydia pomonella* [Lepidoptera: Tortricidae]. 21 Dec 1998. Bulgaria.
- 6195 FE Vega (EBCL 99033). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 6 Oct 1998. Bulgaria: Plovdiv.
- 6196 FE Vega (EBCL 99034). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 18 Dec 1998. France: Andard.
- 6199 FE Vega (EBCL 99038). *Hedya nubiferana* [Lepidoptera: Tortricidae]. 31 Mar 1999. France: Layrac.
- 6201 FE Vega (EBCL 98027). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 19 Feb 1998. France: Crespian, Gard.
- 6205 FE Vega (EBCL 98041). *Lymantria dispar* [Lepidoptera: Lymantriidae]. 20 Jul 1998. France: Pujaudrau.
- 6208 FE Vega (EBCL 98053). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 5 Oct 1998. Bulgaria: Jabalkovo.
- 6209 FE Vega (EBCL 98054). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 5 Oct 1998. Bulgaria: Jabalkovo.
- 6216 AE Hajek (5B). Adult, [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York.
- 6217 AE Hajek (6B). Adult, [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York.
- 6228 [RCEF 0039] Rec'd 24 Aug 1999. Romania.
- 6230 [RCEF 0300] [Orthoptera: Acrididae]. 20 Sep 1997. PR China: Anhui.
- 6231 [RCEF 0306] [Orthoptera]. 7 Jan 1998. PR China: Anhui.
- 6232 [RCEF 0418] [Orthoptera: Acrididae]. 20 Jul 1998. PR China: Anhui.
- 6233 [RCEF 0471] *Lymantria dissoluta* [Lepidoptera: Lymantriidae]. 27 Jan 1999. PR China: Anhui.
- 6234 [RCEF 0498] [Orthoptera: Tettigonioidae]. 27 Nov 1998. PR China: Anhui.
- 6387 TL Dubois (T7 (2) (2)) ← MT Smith. Larva, early instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twig. May 1998. PR China.
- 6390 TL Dubois (HF 2 c 1). Egg, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on *Populus* sp. 8 Aug 1999. PR China: Anhui.
- 6391 TL Dubois (ST 1 # 1 (1)) ← SM Smith ← SA Teale. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twigs of *Acer* sp. 2 Jul 1997. USA: Laboratory colony, SUNY College of Environmental Science and Forestry, Syracuse, New York. Laboratory colony started from host originally obtained from infested maple wood collected in New York, New York, USA 29 April 1997.
- 6393 TL Dubois (VD 12 rep b) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] reared from wood collected in Bayside, NY. Rec'd 22 Dec 1999. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 6404 B Tunali (27). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 6426 B Tunali (28). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey.
- 6444 [ATCC 74250; Mycotech Corporation BB726, GHA] ST Jaronski. Laboratory re-isolation from *Locusta migratoria*. Rec'd 3 Mar 2000. Patented, commercialized strain (Mycotrol?, BotaniGard?). **RESTRICTED ACCESS:** consult Curator.
- 6459 [CIAT 044] D Peck. Adult, *Zulia carbonaria* [Hemiptera: Cercopidae]. 4 Aug 1999. Colombia: Santander de Quilichao, Cauca.
- 6471 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.
- 6478 BL Parker (SPT-KZ-375). Adult, [Coleoptera: Tenebrionidae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:** contact Curator

- 6483 BL Parker (SPT-KZ-406). Adult, [Coleoptera: Tenebrionidae] overwintering in soil. 5 Feb 2000. Kazakhstan: GPS Coordinates N 44°13.034' E 077°41.315'. **RESTRICTED ACCESS:**  
*contact Curator*
- 6499 BL Parker (SPT-KR-452). Adult, [Coleoptera: Buprestidae] overwintering in soil. 11 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°40.597' E 075°02.855'. **RESTRICTED ACCESS:**  
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- 6513 DEN Rangel (Inbioter1). *Polistes* sp. [Hymenoptera: Vespidae]. 30 Aug 1986. Brazil: native forest, Itatiba, São Paulo.
- 6514 DEN Rangel (Inbioter2). *Brassolis sophorea* [Lepidoptera: Brassolidae]. 26 Feb 1991. Brazil: coconut palm border, Pinheiros, São Paulo, São Paulo.
- 6526 FE Vega (EBCL 99046). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6527 FE Vega (EBCL 99048). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6528 FE Vega (EBCL 99055). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6529 FE Vega (EBCL 99057). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6530 FE Vega (EBCL 99059). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6531 FE Vega (EBCL 99070). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6532 FE Vega (EBCL 99071). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jun 2000. Cameroon: Nkolbisson, Centre-Sud.
- 6552 D Chandler (HRI 342.92). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6553 D Chandler (HRI 347.92). Pupa, *Delia radicum* [Diptera: Anthomyiidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6555 D Chandler (HRI 365.92). Adult, *Delia radicum* [Diptera: Anthomyiidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6556 D Chandler (HRI 367.93). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from woodland soil. Rec'd 13 Jul 2000. United Kingdom.
- 6557 D Chandler (HRI 373.93). Pupa, [Lepidoptera]. Rec'd 13 Jul 2000. United Kingdom.
- 6559 D Chandler (HRI 386.93). [Coleoptera]. Rec'd 13 Jul 2000. United Kingdom.
- 6560 D Chandler (HRI 397.93). [Coleoptera]. Rec'd 13 Jul 2000. United Kingdom.
- 6563 D Chandler (HRI 405.94). Pupa, *Delia radicum* [Diptera: Anthomyiidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6564 D Chandler (HRI 407.95). *Delia radicum* [Diptera: Anthomyiidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6565 D Chandler (HRI 417.96). *Tipula paludosa* [Diptera: Tipulidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6566 D Chandler (HRI 461.99). [Diptera: Sciaridae]. Rec'd 13 Jul 2000. United Kingdom.
- 6567 D Chandler (HRI 462.99). [Diptera: Ephydriidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6568 D Chandler (HRI 465.99). Adult, *Delia radicum* [Diptera: Anthomyiidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6578 SB Krasnoff ← L Allee. Laboratory contaminant. Acc'd 19 Mar 2003. USA: Department of Entomology, Geneva Agricultural Experiment Station, Geneva, New York.
- 6612 JL Hatting (14). Rec'd 27 Sep 2000. Hungary: Budapest, Budapest.
- 6613 JL Hatting (17). Rec'd 27 Sep 2000. Hungary: Budapest, Budapest.
- 6614 JL Hatting (17). Rec'd 27 Sep 2000. Hungary: Budapest, Budapest.
- 6616 16 Aug 2000.
- 6617 Rec'd 27 Sep 2000.
- 6618 4 Aug 1999.
- 6620 Acc'd 19 May 2003.
- 6643 [NRRL 22865] KU Devi (4U). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
- 6644 [NRRL 22866] KU Devi (5U). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Rec'd Nov 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
- 6646 KU Devi (KB5). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
- 6647 KU Devi (LOCAL/UAS). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
- 6648 KU Devi (LOCAL/PIV). Larva, *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Peanut fields, Visakhapatnam, Andhra Pradesh.
- 6650 KU Devi (PIV). *Spodoptera litura* [Lepidoptera: Noctuidae]. Mar 2000. India: Visakhapatnam, Andhra Pradesh.
- 6658 JM Sung (EFCC 6197). Acc'd 17 Jul 2003. Republic of Korea.
- 6660 MR McGuire (2-10). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: Scofield Avenue, 0.75 mile north of Merced on west side of road, Shafter, California.

- 6661 MR McGuire (5-43). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: NE corner of Scaroni and Burbank, Shafter, California.
- 6669 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Harae, Northern Shoa.
- 6676 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Dedeaa, Northern Shoa.
- 6681 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Berber, Northern Shoa.
- 6686 Larva, [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Tikur Inchhini, Western Shoa.
- 6687 Rec'd 17 Jan 2001. Ethiopia: Arba Minch Road, Bugae.
- 6688 Rec'd 17 Jan 2001. Ethiopia: Dila Road, Mugundo.
- 6689 [Coleoptera: Carabidae]. Rec'd 17 Jan 2001. Ethiopia: Awassa, Sidamo.
- 6690 [Araneida: Araneae]. Rec'd 17 Jan 2001. Ethiopia: Awassa, Sidamo.
- 6692 Adult, [Coleoptera]. Rec'd 17 Jan 2001. Ethiopia: Weldiya, Welo.
- 6693 Adult, [Coleoptera]. Rec'd 17 Jan 2001. Ethiopia: Debre Markos, Gojam.
- 6695 Adult, [Coleoptera]. Rec'd 17 Jan 2001. Ethiopia: Ashengae, Tigray.
- 6696 Adult, [Coleoptera]. Rec'd 17 Jan 2001. Ethiopia: Ashengae, Tigray.
- 6697 Adult, [Coleoptera]. Rec'd 17 Jan 2001. Ethiopia: Ashengae, Tigray.
- 6721 JM Sung (KECF-6200). [Coleoptera: Cerambycidae]. 25 Oct 2000. Republic of Korea: Mt. Daeyong, Chuncheon, Kangwon-do.
- 6722 JM Sung (KEFC-6240). [Hemiptera: Pentatomidae]. Nov 2000. Republic of Korea: Mt. Hiryang, Jechon.
- 6723 JM Sung (KEFC-6241). [Hemiptera: Coccidae]. 27 Nov 2000. Republic of Korea: Mt. Hiryang, Jechon.
- 6793 G Mercadier (EBCL 00045). *Cephus* sp. [Hymenoptera: Cephidae]. Sep 1999. PR China: Site 1.
- 6794 G Mercadier (EBCL 00046). *Cephus* sp. [Hymenoptera: Cephidae]. Sep 1999. PR China: Site 5.
- 6795 G Mercadier (EBCL 00047). *Cephus* sp. [Hymenoptera: Cephidae]. Sep 1999. PR China: Site 6.
- 6796 G Mercadier (EBCL 00048). *Gymnancyla canella* [Lepidoptera: Pyralidae]. Oct 2000. France: Gros du Roi, Gard.
- 6801 Simonsen (p2-1c). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6802 Simonsen (p3-1f). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6803 Simonsen (p5-7d). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6804 Simonsen (p6-3h). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6805 Simonsen (p7-2f). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6806 Simonsen (p8-2d). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6807 Simonsen (p8-3a). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6808 Simonsen (p9-6a). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6809 Simonsen (p10(II)-1h). *Leucoptera coffeella* [Lepidoptera: Lyonetiidae] on leaves of *Coffea arabica* L., coffee. 13 Jun 2000. Nicaragua: Carazo.
- 6822 GM Duke. Rec'd 22 Mar 2001. GHA lab supply.
- 6823 GM Duke. Rec'd 22 Mar 2001. Mycotech F2 sanguinipes, 3/3/1990, 4/18/1990, sub A.
- 6824 GM Duke. Rec'd 22 Mar 2001. Batch 921114/2, 4 Dec 1992, sub A.
- 6825 GM Duke. Rec'd 22 Mar 2001. Mycotech F2 sanguinipes, 3/3/1990, 4/18/1990, sub B.
- 6826 GM Duke. Rec'd 22 Mar 2001. Batch 921114/2, 4 Dec 1992, sub B.
- 6884 G Neumann (HDM 1). *Otiorhynchus ligustici* [Coleoptera: Curculionidae]. 23 Mar 2001. Hungary: alfalfa field, Hódmezövásárhely, Csongrád.
- 6885 G Neumann (HDM 2). *Otiorhynchus ligustici* [Coleoptera: Curculionidae]. 23 Mar 2001. Hungary: alfalfa field, Hódmezövásárhely, Csongrád.
- 6894 E Zhioua (T82). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Rec'd May 2001.
- 6897 E Zhioua (Tick #3). *Ixodes scapularis* [Acari: Ixodidae]. Rec'd May 2001.
- 6900 I Klingen (NCRI 2/01/Bb). Imago, *Ips stenographus* [Coleoptera: Scolytidae]. 23 Apr 2001. Norway: Sem, Asker, Akershus. **RESTRICTED ACCESS: contact Curator.**
- 6903 M Ghazavi (1). Pupa, *Rhynchophorus ferrugineus* [Coleoptera: Curculionidae]. 1 Jun 2000. Iran: Saravan, Sistan Va Baluchestan.
- 6904 M Ghazavi (2). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 6 Dec 1999. Iran: Karaj, Tehran.
- 6905 M Ghazavi (3). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 5 Dec 1999. Iran: Elevation 2300 m., Atashgah.

- 6906 JR Fuxa (W-6291). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jun 1999. USA: Baton Rouge, Louisiana.
- 6907 JR Fuxa (W-7191). *Coptotermes formosanus* [Isoptera: Rhinotermitidae] as bait from soil. Jul 1999. USA: Lake Charles, Louisiana.
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- 7590 [SRCAMB B-174] V Likhovidov ← BA Borisov. [Hemiptera: Cicadellidae]. 20 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-298.
- 7592 [SRCAMB B-205] V Likhovidov (Vg-19 (3ts)) ← BA Borisov. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Oct 1991. Vietnam: environs, Ho Chi Minh City. Field Collection Number F-64.
- 7593 [SRCAMB B-210] V Likhovidov (24/89) ← BA Borisov. Larva, [Lepidoptera]. 1989. Russian Federation: Irkutsk Region. Field Collection Number F-70.
- 7596 [SRCAMB VL-760] V Likhovidov. *Apis mellifera* [Hymenoptera: Apidae]. 20 Aug 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-210.
- 7758 [IMI 012944] *Hypothenemus hampei* [Coleoptera: Scolytidae]. 1926. Sri Lanka. **RESTRICTED ACCESS:** consult Curator.
- 7763 [IMI 358840] *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 10 Jun 2005. United Kingdom: England. **RESTRICTED ACCESS:** consult Curator.
- 7764 [IMI 386243] *Sitophilus* sp. [Coleoptera: Curculionidae]. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** consult Curator.
- 7765 [IMI 386605] Phylum Arthropoda, Class Insecta. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** consult Curator.
- 7766 [IMI 386606] Phylum Arthropoda, Class Insecta. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** consult Curator.

- 7767 [IMI 386607] Phylum Arthropoda, Class Insecta. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7768 [IMI 387294] Adult, Phylum Arthropoda, Class Insecta. Rec'd 10 Jun 2005. United Kingdom: farm, Suffolk, England. **RESTRICTED ACCESS:** *consult Curator.*
- 7769 [IMI 389521] [Coleoptera: Curculionidae] grain weevil. Rec'd 10 Jun 2005. United Kingdom: sweepings at premises no. 01/070802. **RESTRICTED ACCESS:** *consult Curator.*
- 7770 [IMI 388950] *Ovis aries* [Artiodactyla: Bovidae] Isolated from Suffolk sheepskin washing, sheep 193/iN (neck)/dilution plate 10-2. Rec'd 10 Jun 2005. United Kingdom. First animal trial at Veterinary Laboratories Agency, Addlestone (block 235). **RESTRICTED ACCESS:** *consult Curator.*
- 7771 [IMI 173199] *Equus ferus caballus* [Perissodactyla: Equidae] Isolated from nasal swab of a horse. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7772 [IMI 173201] *Equus ferus caballus* [Perissodactyla: Equidae] Isolated from nasal swab of a horse. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7773 [IMI 386368] *Sitophilus* sp. [Coleoptera: Curculionidae]. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7774 [IMI 386367] *Sitophilus* sp. [Coleoptera: Curculionidae]. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7775 [IMI 061345] Phylum Arthropoda, Class Insecta. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** *consult Curator.*
- 7776 [CEP 189] C López Lastra ← A Toledo. Adult, male, *Oliarus dimidiatus* [Hemiptera: Cixiidae] on *Oryza sativa* L., rice crop. 9 Mar 2005. Argentina: Estación experimental Julio Hirschhorn, Los Hornos, Buenos Aires.
- 7795 [ATCC 74040] Fermone Corporation (FCI-7744). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd Jul 2005. USA: Rio Grande Valley, Texas. **RESTRICTED ACCESS:** *consult Curator.*
- 7796 [IMI I93-825] Rec'd 18 Jul 2005. **RESTRICTED ACCESS:** *consult Curator.*
- 7813 [CSIRO FI-0001] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 16 Oct 1979. Australia: McKemey, Guyra, New South Wales.
- 7853 [CSIRO FI-0210] *Sericesthis nigrolineata* [Coleoptera: Scarabaeidae]. 22 May 1987. Australia: Canberra, Australian Capital Territory.
- 7877 [CSIRO FI-0277] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7878 [CSIRO FI-0278] Isolated from soil sample. 29 Aug 1988. Australia: Pemberton, Western Australia.
- 7889 [CSIRO FI-0293] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7890 [CSIRO FI-0294] Isolated from soil sample. 13 Oct 1988. Australia: Busselton, Western Australia.
- 7891 [CSIRO FI-0296] Isolated from soil sample. Dec 1988. Australia: J. C. Peoples, Finch Hatton, Queensland.
- 7940 JABB of the Carolinas Inc. (HF23). *Musca domestica* [Diptera: Muscidae]. 1997. USA: Dairy farm, Bell, Florida. **RESTRICTED ACCESS:** *contact Curator.*
- 7941 JABB of the Carolinas Inc. (NC2). *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. 1988. USA: Turkey grow out houses, Union, West Virginia. **RESTRICTED ACCESS:** *contact Curator.*
- 7947 NV Meyling (KVL 04-48). Isolated from blade of unspecified grass, *Poaceae*. 12 Sep 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 7948 NV Meyling (KVL 04-50). Isolated from blade of unspecified grass, *Poaceae*. 12 Sep 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 7949 NV Meyling (KVL 04-52). Isolated from leaf of *Urtica dioica* L., stinging nettle. 12 Sep 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 7950 NV Meyling (KVL 04-54). Isolated from leaf of *Urtica dioica* L., stinging nettle. 12 Sep 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 7951 NV Meyling (KVL 04-63). Isolated from leaf of *Urtica dioica* L., stinging nettle. 7 Sep 2004. Denmark: Østrup, Zealand. 55°43' N, 12°13' E.
- 7952 NV Meyling (KVL 04-69). Isolated from leaf of *Urtica dioica* L., stinging nettle. 7 Sep 2004. Denmark: Østrup, Zealand. 55°43' N, 12°13' E.
- 7953 NV Meyling (KVL 04-72). Isolated from leaf of *Crataegus monogyna* Jacq., hawthorn. 7 Sep 2004. Denmark: Østrup, Zealand. 55°43' N, 12°13' E.
- 7954 NV Meyling (KVL 06-01). Isolated from leaf of *Urtica dioica* L., stinging nettle. 12 Sep 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 7955 LA Lacey (1B). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Alaska. 67°06'07" N, 150°05'46" W.
- 7956 LA Lacey (1C). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Alaska. 67°06'07" N, 150°05'46" W.
- 7957 LA Lacey (2B). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Alaska. 68°02'52" N, 149°37'58" W, 3180 ft elevation.

- 7958 LA Lacey (2C). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Alaska. 68°02'52" N, 149°37'58" W, 3180 ft elevation.
- 7959 LA Lacey (2D). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Alaska. 68°02'52" N, 149°37'58" W, 3180 ft elevation.
- 7963 LA Lacey (7). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 29 Sep 2005. USA: Mile 400, wooded area, Alaska. 65°30'06" N, 148°45'29" W.
- 7964 LA Lacey (8). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 1 (Wrigley), CRP soil 1-3, Alaska.
- 7965 LA Lacey (8A). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 1 (Wrigley), CRP soil 1-3, Alaska.
- 7966 LA Lacey (12A). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 2 (Dufenbach), forest soil 13-15, Alaska.
- 7968 LA Lacey (16A). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil sample. 4 Oct 2005. USA: Site 3 (Green), field soil 25-27, Alaska.
- 7969 LA Lacey. Overwintering larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd 7 Mar 2006.
- 7971 BC King (42). Phylum Arthropoda, Class Insecta. 9 Dec 2003. Canada: Pacific Spirit Regional Park, forest, Vancouver, British Columbia. GenBank match - AB079126 (100%) LSU. **RESTRICTED ACCESS:** consult Curator.
- 7972 BC King (52). Adult, [Coleoptera] on forest floor. 28 Aug 2004. Canada: Pacific Spirit Regional Park, forest, Vancouver, British Columbia. GenBank match - AB027381 (100%) ITS. **RESTRICTED ACCESS:** consult Curator.
- 7977 BC King (74). Pupa, Phylum Arthropoda, Class Insecta. Mar 2005. USA: forest, Renton, Washington. GenBank match - AB027381 (100%) LSU. **RESTRICTED ACCESS:** consult Curator.
- 7978 BC King (77). [Coleoptera: Curculionidae] in loose duff near rocky beach. 19 Apr 2005. Canada: Pacific Spirit Regional Park, Wreck Beach, Vancouver, British Columbia. GenBank match - AB027381 (100%) LSU. **RESTRICTED ACCESS:** consult Curator.
- 7983 [CENARGEN CG 425] *Rhammatocerus schistocercoides* [Orthoptera: Acrididae]. Rec'd 29 Mar 2006. Brazil: Campos Novos dos Parecis, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 7984 [ARSEF 8638; CENARGEN CG 883] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 8025 NV Meyling (KVL 03-72). *Liocoris tripustulatus* [Hemiptera: Miridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8026 NV Meyling (KVL 03-81). *Stenodema laevigatum* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8027 NV Meyling (KVL 03-85). *Scolopostethus affinis* [Hemiptera: Lygaeidae] from *Urtica dioica* L., stinging nettle habitat type. 31 Jul 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8028 NV Meyling (KVL 03-90). *Anthocoris nemorum* [Hemiptera: Anthocoridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8029 NV Meyling (KVL 03-94). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8030 NV Meyling (KVL 03-118). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8031 NV Meyling (KVL 03-122). *Pegoplata aestiva* [Diptera: Anthomyiidae]. 31 Jul 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8032 NV Meyling (KVL 03-129). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from field soil. 18 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8033 NV Meyling (KVL 03-136). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil of hedge. 6 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8035 NV Meyling (KVL 03-142). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil of hedge. 6 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8036 NV Meyling (KVL 03-148). *Leptopterna dolabrata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 10 Jul 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8037 NV Meyling (KVL 04-32). *Rhynchites aequatus* [Coleoptera: Curculionidae] from *Crataegus* sp., hawthorn habitat type. 30 May 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8038 NV Meyling (KVL 04-33). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil of hedge. 6 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.

- 8039 NV Meyling (KVL 04-92). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Jul 2004. Greenland: Disko Island. 70° N, 53° W.
- 8040 NV Meyling (KVL 04-93). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Jul 2004. Greenland: Disko Island. 70° N, 53° W.
- 8065 [CSIRO FI-0570] *Pterohelaeus darlingensis* [Coleoptera: Tenebrionidae]. 5 Oct 1989. Australia: Jondaryan, Queensland.
- 8066 [CSIRO FI-0571] *Helicoverpa* sp. [Lepidoptera: Noctuidae] on *Medicago sativa* L., lucerne. 24 Jan 1990. Australia: Gattton, Queensland.
- 8076 [CSIRO FI-0697] Rec'd Summer 2006.
- 8077 [CSIRO FI-0701] *Sitona* sp. [Coleoptera: Curculionidae]. 8 Oct 1990. New Zealand: South Island.
- 8078 [CSIRO FI-0703] *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. 8 Oct 1990. New Zealand: South Island.
- 8079 [CSIRO FI-0705] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 8 Oct 1990. New Zealand: Christchurch, South Island.
- 8189 LA Castrillo (MI-01). Isolated from soil on dodine medium base of tree #1. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8190 LA Castrillo (MI-02). Isolated from soil on dodine medium base of tree #1. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8191 LA Castrillo (MI-03). Isolated from soil on dodine medium base of tree #82. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8192 LA Castrillo (MI-04). Isolated from soil on dodine medium base of tree #82. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8193 LA Castrillo (MI-05). Isolated from soil on dodine medium base of tree #82. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8194 LA Castrillo (MI-06). Isolated from soil on dodine medium base of tree #82. 13 Jun 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8195 LA Castrillo (MI-07). Isolated from soil on dodine medium plot 3. May 2006. USA: Gee Farms Nursery, Jackson County, Michigan.
- 8201 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Aug 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8202 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1-2). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Aug 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8203 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.1-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005.
- 8204 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.1-2). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8205 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.3-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8206 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.3-2). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8207 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.4-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8208 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.5-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8209 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB1.5-2). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8210 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB2.1-1). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8211 [ATCC 74040; Troy Biosciences Inc. ] LA Castrillo (TB2.1-2). Laboratory reisolation from infected *Aphis gossypii* [Homoptera: Aphididae]. Sep 2005. **RESTRICTED ACCESS:** *contact Curator.*
- 8213 S Entz (FM06-2B). *Melanoplus bivittatus* [Orthoptera: Acrididae]. Aug 2006. Canada: 30 km east of Fort Macleod, Alberta.
- 8237 LA Castrillo (CA1). Isolated from soil sample. 29 Oct 2002. USA: organic farm, Candor, New York.
- 8238 LA Castrillo (CA6). Isolated from soil sample. 29 Oct 2002. USA: organic farm, Candor, New York.
- 8239 LA Castrillo (CD10). Isolated from soil sample. 29 Oct 2002. USA: organic farm, Candor, New York.
- 8240 LA Castrillo (CE1). Isolated from soil sample. 29 Oct 2002. USA: organic farm, Candor, New York.
- 8241 LA Castrillo (CE10). Isolated from soil sample. 29 Oct 2002. USA: organic farm, Candor, New York.
- 8242 LA Castrillo (FA1). Isolated from soil sample. Spring 2003. USA: Homer C. Thompson Vegetable Research Farm, potato field sprayed with Botanigard, Freeville, New York.
- 8243 LA Castrillo (FB1). Isolated from soil sample. Spring 2003. USA: Homer C. Thompson Vegetable Research Farm, potato field sprayed with Botanigard, Freeville, New York.

- 8244 LA Castrillo (FC1). Isolated from soil sample. Spring 2003. USA: Homer C. Thompson Vegetable Research Farm, potato field sprayed with Botanigard, Freeville, New York.
- 8245 LA Castrillo (ST1) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydriidae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.
- 8246 LA Castrillo (ST2) ← M Filotas. Pupa, *Scatella tenuicosta* [Diptera: Ephydriidae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.
- 8247 LA Castrillo (ST11) ← M Filotas. Adult, *Scatella tenuicosta* [Diptera: Ephydriidae]. 2003. USA: Cornell University, greenhouse, Ithaca, New York.
- 8253 BC King (Beetle 1). Acc'd 20 Dec 2006.
- 8255 WG Meikle and G Mercadier (EBCL 05005). *Varroa destructor* [Acari: Varroidae]. 28 Jun 2005. France: Quéribus, Aude.
- 8260 RJ Pereault (bbpci#1). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8261 RJ Pereault (bbpci#2). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8262 RJ Pereault (bbpci#3). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8263 RJ Pereault (bbpci#5). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8271 RJ Pereault (bbsi#11). Isolated from soil sample. Jul 2006. USA: Northport, Michigan.
- 8272 RJ Pereault (bbsi#14). Isolated from soil sample. Jul 2006. USA: orchard A, Frankfort, Michigan.
- 8273 RJ Pereault (bbsi#17). Isolated from soil sample. Jul 2006. USA: orchard A, Frankfort, Michigan.
- 8274 RJ Pereault (bbsi#18). Isolated from soil sample. Jul 2006. USA: orchard A, Frankfort, Michigan.
- 8275 RJ Pereault (bbsi#19). Isolated from soil sample. Jul 2006. USA: orchard A, Frankfort, Michigan.
- 8276 RJ Pereault (bbsi#20). Isolated from soil sample. Jul 2006. USA: orchard A, Frankfort, Michigan.
- 8317 N Hudson (NI8). *Lygus lineolaris* [Hemiptera: Miridae] on pigweed. 29 Jul 2002. USA: Washington County, Mississippi. **RESTRICTED ACCESS: consult Curator.**
- 8318 SK Dara (SfBb1). *Spissistilus festinus* [Hemiptera: Membracidae] on *Medicago sativa* L., alfalfa. 12 Jul 2004. USA: Fresno County, California. **RESTRICTED ACCESS: consult Curator.**
- 8339 Z Demirbag (KTU-7). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 17 Jul 2006. Turkey: Yomra, Trabzon.
- 8340 Z Demirbag (KTU-8). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.
- 8343 Z Demirbag (KTU-11). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 22 Jul 2006. Turkey: Bolaman, Ordu.
- 8349 Z Demirbag (KTU-17). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.
- 8354 Z Demirbag (KTU-22). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Borçka, Artvin.
- 8355 Z Demirbag (KTU-23). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 16 Sep 2006. Turkey: Hemsin, Rize.
- 8356 Z Demirbag (KTU-24). *Thaumetopoea pityocampa* [Lepidoptera: Thaumetopoeidae]. 11 Dec 2006. Turkey: Samsun Province.
- 8368 [CEP 001; LPSC 881] AV Toledo. Soil of *Zea mays* L., corn crop. 30 May 2003. Argentina: Partido Magdalena, Buenos Aires.
- 8369 [CEP 002; LPSC 882] AV Toledo. Soil of *Zea mays* L., corn crop. 3 Jul 2003. Argentina: Los Hornos, Buenos Aires.
- 8370 [CEP 137; LPSC 891] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 21 Jul 2004. Argentina: Berazategui, Buenos Aires.
- 8371 [CEP 142; LPSC 894] AV Toledo. Adult, *Pawiloma victima* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 25 Aug 2004. Argentina: Berazategui, Buenos Aires.
- 8372 [CEP 147; LPSC 896] AV Toledo. Adult, *Cycloneda sanguinea* [Coleoptera: Coccinellidae] on *Zea mays* L., maize. 11 Mar 2004. Argentina: El Manantial, Tucumán.
- 8373 [CEP 150; LPSC 897] AV Toledo. Adult, *Diabrotica speciosa* [Coleoptera: Chrysomelidae] on *Zea mays* L., maize. 11 Mar 2004. Argentina: El Manantial, Tucumán.
- 8374 [CEP 151; LPSC 898] AV Toledo. Adult, *Doru lineare* [Dermaptera: Forficulidae] on *Zea mays* L., maize. Apr 2004. Argentina: El Manantial, Tucumán.
- 8383 LA Castrillo ← SL Annis and E Groden (PA2). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.
- 8384 LA Castrillo ← SL Annis and E Groden (PA6). Isolated from soil sample. Summer 2007. USA: Lacourse Farm, Parkman, Maine.
- 8385 LA Castrillo ← SL Annis and E Groden (PA20). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.
- 8386 LA Castrillo ← SL Annis and E Groden (PA55). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.
- 8387 LA Castrillo ← SL Annis and E Groden (PA138). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.

- 8388 LA Castrillo ← SL Annis and E Groden (PA151). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.
- 8389 LA Castrillo ← SL Annis and E Groden (PA160). Isolated from soil sample. Summer 2003. USA: Lacourse Farm, Parkman, Maine.
- 8390 LA Castrillo ← SL Annis and E Groden (PI27). Isolated from soil sample. Summer 2002. USA: Douglass Farm, Pittston, Maine.
- 8391 LA Castrillo ← SL Annis and E Groden (PI46). Isolated from soil sample. Summer 2002. USA: Douglass Farm, Pittston, Maine.
- 8392 LA Castrillo ← SL Annis and E Groden (PI62). Isolated from soil sample. Summer 2002. USA: Douglass Farm, Pittston, Maine.
- 8393 LA Castrillo ← SL Annis and E Groden (PI71). Isolated from soil sample. Summer 2002. USA: Douglass Farm, Pittston, Maine.
- 8394 LA Castrillo ← SL Annis and E Groden (PI94). Isolated from soil sample. Summer 2002. USA: Douglass Farm, Pittston, Maine.
- 8395 LA Castrillo ← SL Annis and E Groden (DM3). Isolated from soil sample. Summer 2000. USA: Goranson Farm, Dresden Mills, Maine.
- 8396 LA Castrillo ← SL Annis and E Groden (DMA7). Isolated from soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 8397 LA Castrillo ← SL Annis and E Groden (DMA11). Isolated from soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 8398 LA Castrillo ← SL Annis and E Groden (DMA30). Isolated from soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 8399 LA Castrillo ← SL Annis and E Groden (DMA54). Isolated from soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
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- 8460 [CEP 111] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 20 Apr 2004. Argentina: Berazategui, Buenos Aires.
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- 8674 Z Demirbag (KTU-63). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 7 Jul 2007. Turkey: Bayburt.
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- 9389 [ERL 1672] S Gouli and V Gouli (Thr.-08-B/18). Isolated from soil sample. 2008. USA: Vermont.
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- 9391 [ERL 1674] S Gouli and V Gouli (Thr.-08-B/20). Isolated from soil sample. 2008. USA: Vermont.
- 9392 [ERL 1675] S Gouli and V Gouli (Thr.-08-B/21). Isolated from soil sample. 2008. USA: Vermont.
- 9393 [ERL 1676] S Gouli and V Gouli (Thr.-08-B/22). Isolated from soil sample. 2008. USA: Vermont.
- 9394 [ERL 1677] S Gouli and V Gouli (Thr.-08-B/23). Isolated from soil sample. 2008. USA: Vermont.
- 9395 [ERL 1678] S Gouli and V Gouli (Thr.-08-B/24). Isolated from soil sample. 2008. USA: Vermont.
- 9396 [ERL 1679] S Gouli and V Gouli (Thr.-08-B/25). Isolated from soil sample. 2008. USA: Vermont.

- 9397 [ERL 1680] S Gouli and V Gouli (Thr.-08-B/26). Isolated from soil sample. 2008. USA: Vermont.
- 9398 [ERL 1681] S Gouli and V Gouli (Thr.-08-B/27). Isolated from soil sample. 2008. USA: Vermont.
- 9399 [ERL 1682] S Gouli and V Gouli (Thr.-08-B/28). Isolated from soil sample. 2008. USA: Vermont.
- 9400 [ERL 1683] S Gouli and V Gouli (Thr.-08-B/29). Isolated from soil sample. 2008. USA: Vermont.
- 9401 [ERL 1684] S Gouli and V Gouli (Thr.-08-B/30). Isolated from soil sample. 2008. USA: Vermont.
- 9402 [ERL 1685] S Gouli and V Gouli (Thr.-08-B/31). Isolated from soil sample. 2008. USA: Vermont.
- 9403 [ERL 1686] S Gouli and V Gouli (Thr.-08-B/32). Isolated from soil sample. 2008. USA: Vermont.
- 9404 [ERL 1687] S Gouli and V Gouli (Thr.-08-B/33). Isolated from soil sample. 2008. USA: Vermont.
- 9405 [ERL 1688] S Gouli and V Gouli (Thr.-08-B/34). Isolated from soil sample. 2008. USA: Vermont.
- 9406 [ERL 1689] S Gouli and V Gouli (Thr.-08-B/35). Isolated from soil sample. 2008. USA: Vermont.
- 9407 [ERL 1690] S Gouli and V Gouli (Thr.-08-B/36). Isolated from soil sample. 2008. USA: Vermont.
- 9408 [ERL 1691] S Gouli and V Gouli (Thr.-08-B/37). Isolated from soil sample. 2008. USA: Vermont.
- 9409 [ERL 1692] S Gouli and V Gouli (Thr.-08-B/38). Isolated from soil sample. 2008. USA: Vermont.
- 9410 [ERL 1693] S Gouli and V Gouli (Thr.-08-B/39). Isolated from soil sample. 2008. USA: Vermont.
- 9411 [ERL 1694] S Gouli and V Gouli (Thr.-08-B/40). Isolated from soil sample. 2008. USA: Vermont.
- 9412 [ERL 1695] S Gouli and V Gouli (Thr.-08-B/41). Isolated from soil sample. 2008. USA: Vermont.
- 9413 [ERL 1696] S Gouli and V Gouli (Thr.-08-B/42). Isolated from soil sample. 2008. USA: Vermont.
- 9414 [ERL 1697] S Gouli and V Gouli (Thr.-08-B/43). Isolated from soil sample. 2008. USA: Vermont.
- 9415 [ERL 1698] S Gouli and V Gouli (Thr.-08-B/44). Isolated from soil sample. 2008. USA: Vermont.
- 9416 [ERL 1699] S Gouli and V Gouli (Thr.-08-B/45). Isolated from soil sample. 2008. USA: Vermont.
- 9417 [ERL 1700] S Gouli and V Gouli (Thr.-08-B/46). Isolated from soil sample. 2008. USA: Vermont.
- 9418 [ERL 1701] S Gouli and V Gouli (Thr.-08-B/47). Isolated from soil sample. 2008. USA: Vermont.
- 9419 [ERL 1702] S Gouli and V Gouli (Thr.-08-B/48). Isolated from soil sample. 2008. USA: Vermont.
- 9420 [ERL 1703] S Gouli and V Gouli (Thr.-08-B/49). Isolated from soil sample. 2008. USA: Vermont.
- 9421 [ERL 1704] S Gouli and V Gouli (Thr.-08-B/50). Isolated from soil sample. 2008. USA: Vermont.
- 9422 [ERL 1705] S Gouli and V Gouli (Thr.-08-B/51). Isolated from soil sample. 2008. USA: Vermont.
- 9423 [ERL 1706] S Gouli and V Gouli (Thr.-08-B/52). Isolated from soil sample. 2008. USA: Vermont.
- 9424 [ERL 1707] S Gouli and V Gouli (Thr.-08-B/53). Isolated from soil sample. 2008. USA: Vermont.
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- 9426 [ERL 1709] S Gouli and V Gouli (Thr.-08-B/55). Isolated from soil sample. 2008. USA: Vermont.
- 9427 [ERL 1710] S Gouli and V Gouli (Thr.-08-B/56). Isolated from soil sample. 2008. USA: Vermont.
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- 9430 [ERL 1713] S Gouli and V Gouli (Thr.-08-B/59). Isolated from soil sample. 2008. USA: Vermont.
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- 9432 [ERL 1715] S Gouli and V Gouli (Thr.-08-B/61). Isolated from soil sample. 2008. USA: Vermont.
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- 10442 G Kyei-Poku (LDY25A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario.
- 10443 G Kyei-Poku (LDY32A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444273 (ITS).
- 10444 G Kyei-Poku (LDY37A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario.
- 10445 G Kyei-Poku (LDY42A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario.
- 10446 G Kyei-Poku (LHY1A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10447 G Kyei-Poku (LHY03A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10448 G Kyei-Poku (LHY4A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10449 G Kyei-Poku (LHY07A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444274 (ITS).
- 10450 G Kyei-Poku (LHY8A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10451 G Kyei-Poku (LHY10A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444275 (ITS).
- 10452 G Kyei-Poku (LHY11A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10453 G Kyei-Poku (LHY12A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10454 G Kyei-Poku (LHY13A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10455 G Kyei-Poku (LHY14A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10456 G Kyei-Poku (LHY15A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10457 G Kyei-Poku (LHY16A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444276 (ITS).
- 10458 G Kyei-Poku (LHY17A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444277 (ITS).
- 10459 G Kyei-Poku (LHY18A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10460 G Kyei-Poku (LHY19A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444278 (ITS).
- 10461 G Kyei-Poku (LHY21A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10462 G Kyei-Poku (LHY22A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444279 (ITS).
- 10463 G Kyei-Poku (LHY44A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10464 G Kyei-Poku (LHY47A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10465 G Kyei-Poku (LHY48A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444280 (ITS).
- 10466 G Kyei-Poku (LHY49A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444281 (ITS).
- 10467 G Kyei-Poku (SY07A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 9 Jul 2009. Canada: Sarnia, Ontario.



- 10468 G Kyei-Poku (SY16A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 9 Jul 2009. Canada: Sarnia, Ontario.
- 10471 MB Bondera. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 2010. USA: Kanalani Ohana Farm, Honaunau, Hawaii. 1600 ft elevation.
- 10478 DW Roberts (DWR 306). Isolated from soil sample SS 0286. 30 May 2006. USA: Coronado National Forest, Cochise County, Arizona. N 31 34.091, W 110 33.364.
- 10479 DW Roberts (DWR 359). Isolated from soil sample SS 0767. 31 Jul 2007. USA: south of Watford City, McKenzie County, North Dakota. N 47 12.720, W 103 13.889.
- 10481 DW Roberts (DWR 361). Isolated from soil sample SS 1028. 20 Aug 2007. USA: Gila County, Arizona. N 33 26.605, W 110 48.985.
- 10482 DW Roberts (DWR 362). Isolated from soil sample SS 1071. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48 54.539, W 100 59.819.
- 10483 DW Roberts (DWR 363). Isolated from soil sample SS 1076. 3 Aug 2007. USA: Lincoln County, Nebraska. N 40 54.293, W 100 29.507.
- 10484 DW Roberts (DWR 370). Isolated from soil sample SS 1086. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.8735, W 101.3013.
- 10485 DW Roberts (DWR 371). Isolated from soil sample SS 1079. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.9663, W 100.67.
- 10486 DW Roberts (DWR 372). Isolated from soil sample SS 1110. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.611, W 100.4946.
- 10487 DW Roberts (DWR 373). Isolated from soil sample SS 1093. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.5478, W 100.6723.
- 10488 DW Roberts (DWR 374). Isolated from soil sample SS 1062. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.2784, W 100.777.
- 10489 DW Roberts (DWR 375). Isolated from soil sample SS 1063. 2 Aug 2007. USA: Renville County, North Dakota. N 48.4681, W 101.1246.
- 10490 DW Roberts (DWR 394). Isolated from soil sample SS 0644. Summer 2007. USA: Dewey County, South Dakota. N 45.1538, W 100.38865.
- 10491 DW Roberts (DWR 395). Isolated from soil sample SS 0652. Summer 2007. USA: Dewey County, South Dakota. N 44.971698, W 100.51904.
- 10493 DW Roberts (DWR 397). Isolated from soil sample SS 0628. Summer 2007. USA: Dewey County, South Dakota. N 45.153751, W 100.3886.
- 10494 DW Roberts (DWR 398). Isolated from soil sample SS 0638. Summer 2007. USA: Corson County, South Dakota. N 45.51607, W 100.56664.
- 10495 DW Roberts (DWR 399). Isolated from soil sample SS 0629. Summer 2007. USA: Dewey County, South Dakota. N 44.949862, W 100.65178.
- 10496 DW Roberts (DWR 400). Isolated from soil sample SS 0678. Summer 2007. USA: Billings County, North Dakota. N 46.86831, W 103.4688.
- 10497 DW Roberts (DWR 401). Isolated from soil sample SS 0684. 6 Aug 2007. USA: Morton County, North Dakota. N 46.4003, W 101.04416.
- 10498 DW Roberts (DWR 402). Isolated from soil sample SS 0690. Summer 2007. USA: Billings County, North Dakota. N 46.77253, W 103.45627.
- 10500 DW Roberts (DWR 404). Isolated from soil sample SS 0767. 31 Jul 2007. USA: Billings County, North Dakota. N 47.21201, W 103.23149.
- 10501 DW Roberts (DWR 405). Isolated from soil sample SS 0632. Summer 2007. USA: Dewey County, South Dakota. N 45.320386, W 100.44231.
- 10502 DW Roberts (DWR 406). Isolated from soil sample SS 0635. Summer 2007. USA: Dewey County, South Dakota. N 44.863441, W 101.0561.
- 10503 DW Roberts (DWR 407). Isolated from soil sample SS 0796. 31 Jul 2007. USA: Billings County, North Dakota. N 47.109542, W 103.66511.
- 10504 DW Roberts (DWR 408). Isolated from soil sample SS 0765. 2 Aug 2007. USA: Billings County, North Dakota. N 47.07659, W 103.39664.
- 10505 DW Roberts (DWR 409). Isolated from soil sample SS 0494. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.243, W 111 45.517.
- 10506 DW Roberts (DWR 410). Isolated from soil sample SS 0491. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.243, W 111 45.517.
- 10507 DW Roberts (DWR 411). Isolated from soil sample SS 0488. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.243, W 111 45.517.
- 10508 DW Roberts (DWR 412). Isolated from soil sample SS 0670. 30 Jul 2007. USA: Billings County, North Dakota. N 47.051717, W 103.60519.
- 10509 DW Roberts (DWR 413). Isolated from soil sample SS 0478. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.193, W 111 45.981.
- 10510 DW Roberts (DWR 414). Isolated from soil sample SS 0486. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.243, W 111 45.517.
- 10511 DW Roberts (DWR 415). Isolated from soil sample SS 0865. Summer 2007. USA: Billings County, North Dakota. N 47.268897, W 103.24202.
- 10512 DW Roberts (DWR 416). Isolated from soil sample SS 0910. 9 Aug 2007. USA: Morton County, North Dakota. N 46.67807, W 101.51465.
- 10513 DW Roberts (DWR 417). Isolated from soil sample SS 0720. Summer 2007. USA: Billings County, North Dakota. N 46.75988, W 103.57521.
- 10514 DW Roberts (DWR 418). Isolated from soil sample SS 0768. 7 Aug 2007. USA: Morton County, North Dakota. N 46.77477, W 101.15229.

- 10515 DW Roberts (DWR 419). Isolated from soil sample SS 0492. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41.46.243, W 111.45.517.
- 10516 DW Roberts (DWR 420). Isolated from soil sample SS 0485. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41.46.216, W 111.45.585.
- 10517 DW Roberts (DWR 421). Isolated from soil sample SS 0769. Summer 2007. USA: Billings County, North Dakota. N 46.66139, W 103.47018.
- 10518 DW Roberts (DWR 422). Isolated from soil sample SS 0962. 6 Aug 2007. USA: Perkins County, South Dakota. N 45.177358, W 102.03125.
- 10519 DW Roberts (DWR 423). Isolated from soil sample SS 0823. 6 Aug 2007. USA: McKenzie County, North Dakota. N 47.797762, W 103.98194.
- 10520 DW Roberts (DWR 424). Isolated from soil sample SS 0819. Summer 2007. USA: McKenzie County, North Dakota. N 47.545125, W 103.59352.
- 10521 DW Roberts (DWR 425). Isolated from soil sample SS 0812. Summer 2007. USA: Golden Valley County, North Dakota. N 47.265883, W 103.77746.
- 10522 DW Roberts (DWR 426). Isolated from soil sample SS 0944. 7 Aug 2007. USA: Corson County, South Dakota. N 45.891121, W 101.5352.
- 10523 DW Roberts (DWR 427). Isolated from soil sample SS 0900. Summer 2007. USA: McKenzie County, North Dakota. N 47.348497, W 103.59604.
- 10524 DW Roberts (DWR 428). Isolated from soil sample SS 0878. Summer 2007. USA: McKenzie County, North Dakota. N 47.63086, W 103.15056.
- 10525 DW Roberts (DWR 429). Isolated from soil sample SS 0869. Summer 2007. USA: McKenzie County, North Dakota. N 47.612516, W 103.28023.
- 10526 DW Roberts (DWR 430). Isolated from soil sample SS 0945. 7 Aug 2007. USA: Corson County, South Dakota. N 45.589481, W 100.61039.
- 10527 DW Roberts (DWR 431). Isolated from soil sample SS 0915. Summer 2007. USA: Billings County, North Dakota. N 47.03767, W 103.1193.
- 10528 DW Roberts (DWR 432). Isolated from soil sample SS 0885. 8 Aug 2007. USA: McKenzie County, North Dakota. N 47.350443, W 103.15377.
- 10529 DW Roberts (DWR 433). Isolated from soil sample SS 0693. 31 Jul 2007. USA: Bowman County, North Dakota. N 46.15062, W 103.3289.
- 10530 DW Roberts (DWR 434). Isolated from soil sample SS 0712. 31 Jul 2007. USA: Billings County, North Dakota. N 47.31271, W 103.48337.
- 10531 DW Roberts (DWR 435). Isolated from soil sample SS 1154. 28 Sep 2007. USA: Gila County, Arizona. N 33.02332, W 110.73669.
- 10532 DW Roberts (DWR 436). Isolated from soil sample SS 1005. 7 Aug 2007. USA: Perkins County, South Dakota. N 45.877845, W 102.5491.
- 10533 DW Roberts (DWR 437). Isolated from soil sample SS 1189. 28 Sep 2007. USA: Yavapai County, Arizona. N 34.59204, W 112.60103.
- 10534 DW Roberts (DWR 438). Isolated from soil sample SS 1184. 28 Sep 2007. USA: Yavapai County, Arizona. N 34.58035, W 112.61473.
- 10535 DW Roberts (DWR 439). Isolated from soil sample SS 1163. 28 Sep 2007. USA: Bear Flat Road, Gila County, Arizona. N 34.287, W 111.06986.
- 10536 DW Roberts (DWR 440). Isolated from soil sample SS 1096. 3 Aug 2007. USA: Bottineau County, North Dakota. N 48.966, W 100.901.
- 10537 DW Roberts (DWR 441). Isolated from soil sample SS 1074. Summer 2007. USA: McHenry County, North Dakota. N 48.589, W 100.6579.
- 10538 DW Roberts (DWR 442). Isolated from soil sample SS 1067. 6 Aug 2007. USA: McHenry County, North Dakota. N 48.3978, W 100.4794.
- 10539 DW Roberts (DWR 443). Isolated from soil sample SS 1118. 4 Sep 2007. USA: Coconino County, Arizona. N 35.0582, W 111.71911.
- 10540 DW Roberts (DWR 444). Isolated from soil sample SS 1181. 28 Sep 2007. USA: Yavapai County, Arizona. N 34.57351, W 112.62223.
- 10541 DW Roberts (DWR 445). Isolated from soil sample SS 1161. 21 Sep 2007. USA: Gila County, Arizona. N 34.28073, W 111.13291.
- 10542 DW Roberts (DWR 466). Isolated from soil sample SS 1092. 2 Aug 2007. USA: Bottineau County, North Dakota. N 48.82966, W 100.59928.
- 10543 DW Roberts (DWR 467). Isolated from soil sample SS 0778. 30 Jul 2007. USA: McKenzie County, North Dakota. N 47.500573, W 103.4193.
- 10544 DW Roberts (DWR 468). Isolated from soil sample SS 0547. Summer 2007. USA: Yavapai County, Arizona. N 35.385905, W 112.99277.
- 10545 DW Roberts (DWR 469). Isolated from soil sample SS 0593. Summer 2007. USA: Navajo County, Arizona. N 35.625871, W 110.48035.
- 10546 DW Roberts (DWR 474). Isolated from soil sample SS 0826. 7 Aug 2007. USA: McKenzie County, North Dakota. N 47.44546, W 103.69581.
- 10548 DW Roberts (DWR 476). Isolated from soil sample SS 0930. 6 Aug 2007. USA: Corson County, South Dakota. N 45.486297, W 100.59808.
- 10549 DW Roberts (DWR 477). Isolated from soil sample SS 0879. Summer 2007. USA: McKenzie County, North Dakota. N 47.583275, W 103.2732.
- 10550 DW Roberts (DWR 481). Isolated from soil sample SS 1274. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41.46.131, W 111.49.369.
- 10551 DW Roberts (DWR 482). Isolated from soil sample SS 1277. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41.46.126, W 111.49.341.

- 10552 DW Roberts (DWR 483). Isolated from soil sample SS 1278. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.124, W 111 49.362.
- 10553 DW Roberts (DWR 486). Isolated from soil sample SS 1295. 2 Jul 2008. USA: Logan Field, Logan, Utah. N 42 00.604, W 113 18.650.
- 10554 DW Roberts (DWR 487). Isolated from soil sample SS 1224. 14 Mar 2008. USA: Diamond Mountain, Vernal, Utah. N 40 35.080, W 109 20.387.
- 10555 DW Roberts (DWR 488). Isolated from soil sample SS 1275. 5 Jun 2008. USA: Logan Field, Logan, Utah. N 41 46.117, W 111 49.361.
- 10556 DW Roberts (DWR 489). Isolated from soil sample SS 1298. 2 Jul 2008. USA: Logan Field, Logan, Utah. N 41 57.562, W 111 48.951.
- 10557 DW Roberts (DWR 490). Isolated from soil sample SS 1301. 2 Jul 2008. USA: Logan Field, Logan, Utah. N 42 06.412, W 112 03.100.
- 10558 DW Roberts (DWR 491). Isolated from soil sample SS 1302. 2 Jul 2008. USA: Logan Field, Logan, Utah. N 41 56.358, W 113 28.221.
- 10559 DW Roberts (DWR 492). Isolated from soil sample SS 1217. 14 Mar 2008. USA: Diamond Mountain, Vernal, Utah. N 40 34.739, W 109 28.564.
- 10560 DW Roberts (DWR 493). Isolated from soil sample SS 1185. 28 Sep 2008. USA: Yavapai County, Arizona. N 34.57777, W 112.61894.
- 10561 DW Roberts (DWR 494). Isolated from soil sample SS 0811. 31 Jul 2008. USA: McKenzie County, North Dakota. N 47.460398, W 104.04025.
- 10562 DW Roberts (DWR 495). Isolated from soil sample SS 1220. 14 Mar 2008. USA: Diamond Mountain, Vernal, Utah. N 40 35.080, W 109 20.387.
- 10563 DW Roberts (DWR 496). Isolated from soil sample SS 1262. 14 Mar 2008. USA: Diamond Mountain, Vernal, Utah. N 40 09.941, W 110 21.629.
- 10564 DW Roberts (DWR 506). Isolated from soil sample SS 1341. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 10565 DW Roberts (DWR 511). Isolated from soil sample SS 1378. 8 Aug 2008. USA: Loup County, Nebraska.
- 10566 DW Roberts (DWR 527). Isolated from soil sample SS 1317. 16 Jul 2008. USA: Whitman County, Washington. N 46.721226, W 117.46482.
- 10567 DW Roberts (DWR 528). Isolated from soil sample SS 1399. 8 Aug 2008. USA: Blaine County, Nebraska.
- 10568 DW Roberts (DWR 530). Isolated from soil sample SS 2242. 4 Jun 2008. USA: Woods County, Oklahoma. N 36.972388, W 99.316288.
- 10569 DW Roberts (DWR 531). Isolated from soil sample SS 2271. 2 Jun 2008. USA: Jefferson County, Oklahoma. N 34.245708, W 97.956513.
- 10570 DW Roberts (DWR 532). Isolated from soil sample SS 2353. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10571 DW Roberts (DWR 533). Isolated from soil sample SS 2360. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10572 DW Roberts (DWR 536). Isolated from soil sample SS 1307. Jul 2008. USA: Asotin County, Washington. N 46.191245, W 116.99948.
- 10573 DW Roberts (DWR 537). Isolated from soil sample SS 1357. 8 Aug 2008. USA: Wheeler County, Nebraska.
- 10574 DW Roberts (DWR 538). Isolated from soil sample SS 1425. 8 Aug 2008. USA: Brown County, Nebraska.
- 10576 DW Roberts (DWR 540). Isolated from soil sample SS 3358. 24 Jul 2008. USA: Oregon.
- 10577 DW Roberts (DWR 548). Isolated from soil sample SS 3541. 28 May 2008. USA: Kit Carson County, Colorado. N 39.31545, W 102.70588.
- 10578 DW Roberts (DWR 549). Isolated from soil sample SS 4262. 20 Aug 2008. USA: Deuel County, Nebraska. N 41.03371, W 102.6024.
- 10579 DW Roberts (DWR 551). Isolated from soil sample SS 2283. 5 Jun 2008. USA: Ellis County, Oklahoma. N 36.435105, W 99.964403.
- 10580 DW Roberts (DWR 552). Isolated from soil sample SS 2359. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10581 DW Roberts (DWR 553). Isolated from soil sample SS 2273. 3 Jun 2008. USA: Caddo County, Oklahoma. N 34.898023, W 98.550442.
- 10582 DW Roberts (DWR 554). Isolated from soil sample SS 4440. 21 May 2008. USA: Dickens County, Texas. N 33.39828, W 100.91329.
- 10583 DW Roberts (DWR 555). Isolated from soil sample SS 1431. 9 Aug 2008. USA: Rock County, Nebraska.
- 10584 DW Roberts (DWR 556). Isolated from soil sample SS 2259. 3 Jun 2008. USA: Kiowa County, Oklahoma. N 34.725266, W 98.852702.
- 10585 DW Roberts (DWR 557). Isolated from soil sample SS 2260. 3 Jun 2008. USA: Greer County, Oklahoma. N 34.871935, W 99.695897.
- 10586 DW Roberts (DWR 558). Isolated from soil sample SS 4322. 5 Jun 2008. USA: Golden Valley County, North Dakota. N 47.088252, W 103.79332.
- 10587 DW Roberts (DWR 559). Isolated from soil sample SS 2231. 5 Jun 2008. USA: Harper County, Oklahoma. N 36.773521, W 99.365385.
- 10588 DW Roberts (DWR 560). Isolated from soil sample SS 2346. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10589 DW Roberts (DWR 561). Isolated from soil sample SS 2347. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10590 DW Roberts (DWR 562). Isolated from soil sample SS 2311. 22 Aug 2008. USA: Graham County, Arizona. N 33.40081, W 109.69847.

- 10591 DW Roberts (DWR 563). Isolated from soil sample SS 2357. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10592 DW Roberts (DWR 564). Isolated from soil sample SS 2351. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10593 DW Roberts (DWR 565). Isolated from soil sample SS 2356. 22 Aug 2008. USA: Graham County, Arizona. N 33.47901, W 109.70635.
- 10595 DW Roberts (DWR 567). Isolated from soil sample SS 3427. 5 Aug 2008. USA: San Bernardino County, California. N 34.30251, W 117.46284.
- 10596 DW Roberts (DWR 568). Isolated from soil sample SS 3507. 30 May 2008. USA: Washington County, Colorado. N 40.002138, W 103.13264.
- 10597 DW Roberts (DWR 569). Isolated from soil sample SS 3551. 2 Jun 2008. USA: Washington County, Colorado. N 40.221332, W 103.15367.
- 10599 DW Roberts (DWR 571). Isolated from soil sample SS 4263. 20 Aug 2008. USA: Keith County, Nebraska. N 41.09111, W 102.00802.
- 10600 DW Roberts (DWR 583). Isolated from soil sample SS 4349. 4 Jun 2008. USA: Billings County, North Dakota. N 47.240635, W 103.34748.
- 10601 DW Roberts (DWR 584). Isolated from soil sample SS 4356. 4 Jun 2008. USA: Billings County, North Dakota. N 47.088885, W 103.53817.
- 10602 DW Roberts (DWR 585). Isolated from soil sample SS 4429. 13 May 2008. USA: Knox County, Texas. N 33.53484, W 99.89712.
- 10603 DW Roberts (DWR 586). Isolated from soil sample SS 1584. 13 Aug 2008. USA: Grant County, Nebraska. N 41.945652, W 101.71662.
- 10604 DW Roberts (DWR 606). Isolated from soil sample SS 2434. 22 Aug 2008. USA: Graham County, Arizona. N 33.42539, W 109.71923.
- 10605 DW Roberts (DWR 607). Isolated from soil sample SS 3224. 14 Aug 2008. USA: Custer County, Nebraska. N 41.1947, W 99.3728.
- 10606 DW Roberts (DWR 608). Isolated from soil sample SS 3233. 14 Aug 2008. USA: Phelps County, Nebraska. N 40.5981, W 99.2551.
- 10607 DW Roberts (DWR 609). Isolated from soil sample SS 3243. 11 Aug 2008. USA: Harlan County, Nebraska. N 40.3289, W 99.53.
- 10609 DW Roberts (DWR 611). Isolated from soil sample SS 5200. 17 Jun 2008. USA: Mellette County, South Dakota. N 43.6647, W 101.02039.
- 10610 DW Roberts (DWR 612). Isolated from soil sample SS 3333. 30 Jul 2008. USA: Texas.
- 10611 DW Roberts (DWR 613). Isolated from soil sample SS 3393. 6 Aug 2008. USA: Oregon.
- 10612 DW Roberts (DWR 614). Isolated from soil sample SS 2210. 5 Jun 2008. USA: Woodward County, Oklahoma. N 36.432163, W 99.072727.
- 10613 DW Roberts (DWR 615). Isolated from soil sample SS 3535. 28 May 2008. USA: Kit Carson County, Colorado. N 39.09027, W 102.70717.
- 10614 DW Roberts (DWR 616). Isolated from soil sample SS 2439. 22 Aug 2008. USA: Graham County, Arizona. N 33.42539, W 109.71923.
- 10615 DW Roberts (DWR 617). Isolated from soil sample SS 2443. 22 Aug 2008. USA: Graham County, Arizona. N 33.42539, W 109.71923.
- 10617 DW Roberts (DWR 622). Isolated from soil sample SS 3475. 14 Aug 2008. USA: San Luis Obispo, California. N 35.05143, W 120.45499.
- 10619 DW Roberts (DWR 624). Isolated from soil sample SS 3559. 3 Jun 2008. USA: Logan County, Colorado. N 40.509203, W 103.1312.
- 10620 DW Roberts (DWR 625). Isolated from soil sample SS 3565. 3 Jun 2008. USA: Logan County, Colorado. N 40.66237, W 102.95299.
- 10621 DW Roberts (DWR 626). Isolated from soil sample SS 3575. 10 Jun 2008. USA: Sedgwick County, Colorado. N 40.982538, W 102.32679.
- 10622 DW Roberts (DWR 627). Isolated from soil sample SS 3600. 9 Jun 2008. USA: Weld County, Colorado. N 40.854736, W 103.9778.
- 10624 DW Roberts (DWR 629). Isolated from soil sample SS 4456. 16 May 2008. USA: Haskell County, Texas. N 33.13072, W 99.89614.
- 10625 DW Roberts (DWR 630). Isolated from soil sample SS 4211. 9 Jul 2008. USA: Sherman County, Oregon. N 45.58028, W 120.44935.
- 10626 DW Roberts (DWR 631). Isolated from soil sample SS 4811. 12 Aug 2008. USA: Fremont County, Wyoming. N 42.366661, W 108.90036.
- 10627 DW Roberts (DWR 644). Isolated from soil sample SS 3528. 27 May 2008. USA: Kit Carson County, Colorado. N 39.18283, W 102.5771.
- 10629 DW Roberts (DWR 646). Isolated from soil sample SS 1634. 14 Aug 2008. USA: Valley County, Nebraska. N 41.4664, W 98.9051.
- 10631 DW Roberts (DWR 648). Isolated from soil sample SS 5170. 11 Jul 2008. USA: Scotts Bluff County, Nebraska. N 41.992725, W 103.63868.
- 10632 DW Roberts (DWR 649). Isolated from soil sample SS 3375. 6 Aug 2008. USA: Grant County, Oregon.
- 10633 DW Roberts (DWR 650). Isolated from soil sample SS 3191. 13 Aug 2008. USA: Stevens County, Washington. N 48.4423, W 118.1705.
- 10636 DW Roberts (DWR 653). Isolated from soil sample SS 1309. Jul 2008. USA: Asotin County, Washington. N 46.109803, W 116.95416.
- 10637 DW Roberts (DWR 654). Isolated from soil sample SS 1547. 16 Jun 2008. USA: Adams County, Washington. N 46.88363, W 119.30783.
- 10638 DW Roberts (DWR 661). Isolated from soil sample SS 5232. 19 Jun 2008. USA: Brule County, South Dakota. N 43.6777, W 98.8937.

- 10639 DW Roberts (DWR 662). Isolated from soil sample SS 3235. 5 Aug 2008. USA: Phelps County, Nebraska. N 40.3653, W 99.3915.
- 10640 DW Roberts (DWR 663). Isolated from soil sample SS 5239. 19 Jun 2008. USA: Brule County, South Dakota. N 43.80289, W 99.064.
- 10641 DW Roberts (DWR 664). Isolated from soil sample SS 2569. 26 Aug 2008. USA: Empire Ranch Road, Pima County, Arizona. N 31.792555, W 110.6357.
- 10642 DW Roberts (DWR 665). Isolated from soil sample SS 3185. 13 Aug 2008. USA: Franklin County, Washington. N 46.320092, W 118.85859.
- 10643 DW Roberts (DWR 666). Isolated from soil sample SS 3194. 13 Aug 2008. USA: Stevens County, Washington. N 48.2977, W 117.9301.
- 10645 DW Roberts (DWR 668). Isolated from soil sample SS 4099. 25 Jun 2008. USA: Logan County, Colorado. N 40.863965, W 102.9999.
- 10647 DW Roberts (DWR 672). Isolated from soil sample SS 3662. 10 Jun 2008. USA: Lincoln County, Colorado. N 39.33001, W 103.45406.
- 10649 DW Roberts (DWR 674). Isolated from soil sample SS 7909. 11 Aug 2008. USA: Phillips County, Montana.
- 10651 DW Roberts (DWR 676). Isolated from soil sample SS 3707. 23 Jun 2008. USA: Adams County, Colorado. N 39.95864, N 103.74349.
- 10652 DW Roberts (DWR 677). Isolated from soil sample SS 3704. 23 Jun 2008. USA: Adams County, Colorado. N 39.8402, W 103.99891.
- 10653 DW Roberts (DWR 678). Isolated from soil sample SS 3689. 17 Jun 2008. USA: Arapahoe County, Colorado. N 39.72609, W 103.92677.
- 10654 DW Roberts (DWR 679). Isolated from soil sample SS 5258. 11 Jun 2008. USA: Tripp County, South Dakota. N 43.260825, W 100.18606.
- 10655 DW Roberts (DWR 680). Isolated from soil sample SS 7940. 5 Aug 2008. USA: Big Horn County, Montana. N 45.1864, W 107.5797.
- 10656 DW Roberts (DWR 681). Isolated from soil sample SS 7934. 4 Aug 2008. USA: Big Horn County, Montana. N 45.3669, W 107.6502.
- 10657 DW Roberts (DWR 682). Isolated from soil sample SS 3671. 10 Jun 2008. USA: Lincoln County, Colorado. N 39.49259, W 103.67785.
- 10659 DW Roberts (DWR 684). Isolated from soil sample SS 3843. 3 Jun 2008. USA: Lincoln County, Colorado. N 39.44469, W 103.26635.
- 10660 DW Roberts (DWR 685). Isolated from soil sample SS 3771. 29 May 2008. USA: Washington County, Colorado. N 39.815655, W 102.89567.
- 10661 DW Roberts (DWR 686). Isolated from soil sample SS 3812. 10 Jul 2008. USA: Larimer County, Colorado. N 40.795716, W 104.97994.
- 10662 DW Roberts (DWR 687). Isolated from soil sample SS 3830. 2 Jun 2008. USA: Lincoln County, Colorado. N 39.19777, W 103.26757.
- 10663 DW Roberts (DWR 688). Isolated from soil sample SS 3809. 10 Jul 2008. USA: Larimer County, Colorado. N 40.70863, W 105.1732.
- 10664 DW Roberts (DWR 689). Isolated from soil sample SS 3491. 12 Aug 2008. USA: Mariposa County, California. N 37.48857, W 120.04285.
- 10665 DW Roberts (DWR 690). Isolated from soil sample SS 3759. 26 May 2008. USA: Washington County, Colorado. N 39.709793, W 103.40692.
- 10666 DW Roberts (DWR 691). Isolated from soil sample SS 4112. 26 Jun 2008. USA: Morgan County, Colorado. N 40.23085, W 103.70207.
- 10669 DW Roberts (DWR 700). Isolated from soil sample SS 3686. 11 Jun 2008. USA: Elbert County, Colorado. N 39.27289, W 104.08584.
- 10673 DW Roberts (DWR 704). Isolated from soil sample SS 3653. 6 Jun 2008. USA: Lincoln County, Colorado. N 39.24425, W 103.4725.
- 10675 DW Roberts (DWR 706). Isolated from soil sample SS 3790. 10 Jul 2008. USA: Platte County, Wyoming. N 41.928572, W 104.80179.
- 10678 DW Roberts (DWR 709). Isolated from soil sample SS 3806. 28 May 2008. USA: Washington County, Colorado. N 39.856583, W 103.59242.
- 10679 DW Roberts (DWR 710). Isolated from soil sample SS 4504. 8 Jul 2008. USA: Lipscomb County, Texas. N 36.44876, W 100.40482.
- 10680 DW Roberts (DWR 711). Isolated from soil sample SS 5342. 1 Jul 2008. USA: Jackson County, South Dakota. N 43.7146, W 101.8374.
- 10681 DW Roberts (DWR 717). Isolated from soil sample SS 4500. 1 Jul 2008. USA: Wheeler County, Texas. N 35.24113, W 100.25104.
- 10682 DW Roberts (DWR 718). Isolated from soil sample SS 4537. 4 Jun 2008. USA: Callahan County, Texas. N 32.50292, W 99.54568.
- 10683 DW Roberts (DWR 719). Isolated from soil sample SS 4536. 4 Jun 2008. USA: Callahan County, Texas. N 32.23482, W 99.53926.
- 10684 DW Roberts (DWR 720). Isolated from soil sample SS 4581. 5 Jun 2008. USA: Mitchell County, Texas. N 32.20298, W 100.75227.
- 10685 DW Roberts (DWR 721). Isolated from soil sample SS 4582. 5 Jun 2008. USA: Mitchell County, Texas. N 32.12907, W 100.98704.
- 10686 DW Roberts (DWR 722). Isolated from soil sample SS 4591. 11 Jun 2008. USA: Hockley County, Texas. N 33.78631, W 102.44922.
- 10687 DW Roberts (DWR 723). Isolated from soil sample SS 4544. 5 Jun 2008. USA: Sterling County, Texas. N 31.57424, W 101.07631.

- 10689 DW Roberts (DWR 725). Isolated from soil sample SS 4568. 24 Jun 2008. USA: Martin County, Texas. N 32.18353, W 101.78448.
- 10691 DW Roberts (DWR 727). Isolated from soil sample SS 4506. 30 Jun 2008. USA: Gray County, Texas. N 35.4092, W 101.04444.
- 10692 DW Roberts (DWR 728). Isolated from soil sample SS 4509. 30 Jun 2008. USA: Gray County, Texas. N 35.41499, W 100.60719.
- 10693 DW Roberts (DWR 729). Isolated from soil sample SS 4547. 10 Jun 2008. USA: Borden County, Texas. N 32.94538, W 101.44147.
- 10694 DW Roberts (DWR 730). Isolated from soil sample SS 4566. 24 Jun 2008. USA: Martin County, Texas. N 32.22391, W 102.08804.
- 10695 DW Roberts (DWR 731). Isolated from soil sample SS 4553. 12 Jun 2008. USA: Childress County, Texas. N 34.67436, W 100.05662.
- 10696 DW Roberts (DWR 732). Isolated from soil sample SS 4524. 29 May 2008. USA: Cottle County, Texas. N 33.9193, W 100.48551.
- 10697 DW Roberts (DWR 733). Isolated from soil sample SS 4526. 3 Jun 2008. USA: Concho County, Texas. N 31.23575, W 99.72141.
- 10698 DW Roberts (DWR 734). Isolated from soil sample SS 4578. 5 Jun 2008. USA: Stonewall County, Texas. N 33.20852, W 100.46127.
- 10699 DW Roberts (DWR 735). Isolated from soil sample SS 6387. Jul 2008. USA: Cache County, Utah. N 41.5954, W 111.4845.
- 10700 DW Roberts (DWR 736). Isolated from soil sample SS 7968. 10 Jun 2008. USA: Montana.
- 10702 DW Roberts (DWR 738). Isolated from soil sample SS 5333. 1 Jul 2008. USA: Jackson County, South Dakota. N 43.7273, W 101.7226.
- 10704 DW Roberts (DWR 740). Isolated from soil sample SS 7981. 29 Jul 2008. USA: Montana.
- 10705 DW Roberts (DWR 743). Isolated from soil sample SS 3892. 10 Jul 2008. USA: Weld County, Colorado. N 40.98589, W 104.77114.
- 10706 DW Roberts (DWR 744). Isolated from soil sample SS 3939. 10 Jul 2008. USA: Park County, Colorado. N 39.01179, W 105.78414.
- 10708 DW Roberts (DWR 746). Isolated from soil sample SS 3900. 3 Jul 2008. USA: Adams County, Colorado. N 39.88498, W 104.18786.
- 10710 DW Roberts (DWR 748). Isolated from soil sample SS 4026. 16 Jun 2008. USA: El Paso County, Colorado. N 39.1076, W 104.18177.
- 10711 DW Roberts (DWR 749). Isolated from soil sample SS 4031. 16 Jun 2008. USA: El Paso County, Colorado. N 39.0399, W 104.09071.
- 10712 DW Roberts (DWR 750). Isolated from soil sample SS 4012. 12 Jun 2008. USA: Elbert County, Colorado. N 39.06407, W 103.97838.
- 10713 DW Roberts (DWR 751). Isolated from soil sample SS 3958. 22 May 2008. USA: Lincoln County, Colorado. N 39.566153, W 103.595945.
- 10714 DW Roberts (DWR 752). Isolated from soil sample SS 3977. 28 May 2008. USA: Kit Carson County, Colorado. N 39.26474, W 102.81777.
- 10715 DW Roberts (DWR 753). Isolated from soil sample SS 2653. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10716 DW Roberts (DWR 754). Isolated from soil sample SS 2651. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10717 DW Roberts (DWR 755). Isolated from soil sample SS 2659. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10718 DW Roberts (DWR 756). Isolated from soil sample SS 2658. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10719 DW Roberts (DWR 757). Isolated from soil sample SS 2660. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10721 DW Roberts (DWR 770). Isolated from soil sample SS 3948. 21 May 2008. USA: Elbert County, Colorado. N 39.14374, W 103.73398.
- 10722 DW Roberts (DWR 771). Isolated from soil sample SS 2656. 26 Aug 2008. USA: near Sonoita, Pima County, Arizona. N 31.76472, W 110.666723.
- 10723 DW Roberts (DWR 772). Isolated from soil sample SS 3944. 2 Jun 2008. USA: Yuma County, Colorado. N 40.278595, W 102.603685.
- 10724 DW Roberts (DWR 773). Isolated from soil sample SS 2575. 26 Aug 2008. USA: Empire Ranch, Pima County, Arizona. N 31.792555, W 110.6357.
- 10725 DW Roberts (DWR 774). Isolated from soil sample SS 2607. 26 Aug 2008. USA: Empire Ranch, Pima County, Arizona. N 31.803754, W 110.678705.
- 10726 DW Roberts (DWR 775). Isolated from soil sample SS 2570. 26 Aug 2008. USA: Empire Ranch, Pima County, Arizona. N 31.792555, W 110.6357.
- 10727 DW Roberts (DWR 776). Isolated from soil sample SS 3952. 22 May 2008. USA: Washington County, Colorado. N 39.566822, W 103.65049833.
- 10728 DW Roberts (DWR 777). Isolated from soil sample SS 4076. 23 May 2008. USA: Adams County, Colorado. N 39.996792, W 103.71502.
- 10729 DW Roberts (DWR 778). Isolated from soil sample SS 3945. 10 Jul 2008. USA: Lake County, Colorado. N 39.08127, W 105.86591.
- 10731 DW Roberts (DWR 780). Isolated from soil sample SS 2635. 26 Aug 2008. USA: Graham County, Arizona. N 33.397751, W 109.718853.
- 10733 DW Roberts (DWR 782). Isolated from soil sample SS 2671. 26 Aug 2008. USA: Graham County, Arizona. N 33.380253, W 109.743061.

- 10734 DW Roberts (DWR 783). Isolated from soil sample SS 2686. 26 Aug 2008. USA: Santa Cruz County, Arizona. N 31.708053, W 110.588925.
- 10735 DW Roberts (DWR 784). Isolated from soil sample SS 2685. 26 Aug 2008. USA: Santa Cruz County, Arizona. N 31.708053, W 110.588925.
- 10736 DW Roberts (DWR 785). Isolated from soil sample SS 2779. 17 Jul 2008. USA: Arizona.
- 10737 DW Roberts (DWR 786). Isolated from soil sample SS 2692. 26 Aug 2008. USA: Santa Cruz County, Arizona. N 31.708053, W 110.588925.
- 10738 DW Roberts (DWR 787). Isolated from soil sample SS 2694. 26 Aug 2008. USA: Santa Cruz County, Arizona. N 31.708053, W 110.588925.
- 10739 DW Roberts (DWR 788). Isolated from soil sample SS 2705. 17 Jul 2008. USA: Coconino County, Arizona. N 35.76174, W 112.82265.
- 10740 DW Roberts (DWR 789). Isolated from soil sample SS 2767. 17 Jul 2008. USA: Coconino County, Arizona. N 35.722958, W 112.87758.
- 10741 DW Roberts (DWR 790). Isolated from soil sample SS 2067. 13 Aug 2008. USA: Boyd County, Nebraska.
- 10742 DW Roberts (DWR 791). Isolated from soil sample SS 2827. 17 Jul 2008. USA: Navajo County, Arizona. N 34.606645, W 110.3783016.
- 10743 DW Roberts (DWR 792). Isolated from soil sample SS 2828. 17 Jul 2008. USA: Navajo County, Arizona. N 34.606645, W 110.3783016.
- 10744 DW Roberts (DWR 808). Isolated from soil sample SS 2921. 17 Jul 2008. USA: Coconino County, Arizona. N 35.794473, W 112.416863.
- 10745 DW Roberts (DWR 809). Isolated from soil sample SS 2925. 17 Jul 2008. USA: Coconino County, Arizona. N 35.794473, W 112.416863.
- 10746 DW Roberts (DWR 810). Isolated from soil sample SS 2014. 13 Aug 2008. USA: Gosper County, Nebraska. N 40.5343, W 99.7372.
- 10747 DW Roberts (DWR 811). Isolated from soil sample SS 2930. Jul 2008. USA: Yavapai County, Arizona. N 34.697016, W 112.510838.
- 10748 DW Roberts (DWR 812). Isolated from soil sample SS 2059. 13 Aug 2008. USA: Buffalo County, Nebraska. N 40.8588, W 99.2551.
- 10749 DW Roberts (DWR 813). Isolated from soil sample SS 2046. 13 Aug 2008. USA: Furnas County, Nebraska. N 40.1451, W 99.9326.
- 10750 DW Roberts (DWR 814). Isolated from soil sample SS 2920. 17 Jul 2008. USA: Coconino County, Arizona. N 35.794473, W 112.416863.
- 10751 DW Roberts (DWR 815). Isolated from soil sample SS 1874. 4 Aug 2008. USA: Keya Paha County, Nebraska.
- 10752 DW Roberts (DWR 817). Isolated from soil sample SS 1948. 30 Jul 2008. USA: Frontier County, Nebraska. N 40.38971, W 100.26295.
- 10754 DW Roberts (DWR 855). Isolated from soil sample SS 1898. 23 Jul 2008. USA: Hitchcock County, Nebraska. N 40.29845, W 101.04119.
- 10755 DW Roberts (DWR 856). Isolated from soil sample SS 1935. 25 Jul 2008. USA: Hayes County, Nebraska. N 40.63847, W 100.968.
- 10756 DW Roberts (DWR 857). Isolated from soil sample SS 1919. 28 Jul 2008. USA: Frontier County, Nebraska. N 40.54133, W 100.24089.
- 10757 DW Roberts (DWR 858). Isolated from soil sample SS 1930. 24 Jul 2008. USA: Hayes County, Nebraska. N 40.36359, W 100.91887.
- 10758 DW Roberts (DWR 859). Isolated from soil sample SS 4723. 2 Jun 2008. USA: Coleman County, Texas. N 31.48319, W 99.37464.
- 10759 DW Roberts (DWR 860). Isolated from soil sample SS 2072. 13 Aug 2008. USA: Boyd County, Nebraska.
- 10760 DW Roberts (DWR 861). Isolated from soil sample SS 2058. 13 Aug 2008. USA: Furnas County, Nebraska. N 40.0161, W 100.0799.
- 10761 DW Roberts (DWR 862). Isolated from soil sample SS 4638. 3 Jun 2008. USA: Schleicher County, Texas. N 30.79365, W 100.77251.
- 10762 DW Roberts (DWR 863). Isolated from soil sample SS 4649. 30 Jun 2008. USA: Hansford County, Texas. N 36.08137, W 101.4447.
- 10763 DW Roberts (DWR 864). Isolated from soil sample SS 4603. 18 Jun 2008. USA: Swisher County, Texas. N 34.57756, W 101.54027.
- 10764 DW Roberts (DWR 865). Isolated from soil sample SS 4598. 17 Jun 2008. USA: Parmer County, Texas. N 34.64667, W 102.60166.
- 10765 DW Roberts (DWR 874). Isolated from soil sample SS 4726. 3 Jun 2008. USA: Menard County, Texas. N 30.99347, W 100.09922.
- 10766 DW Roberts (DWR 875). Isolated from soil sample SS 1984. 5 Aug 2008. USA: Lincoln County, Nebraska. N 40.84449, W 100.29618.
- 10767 DW Roberts (DWR 876). Isolated from soil sample SS 1955. 30 Jul 2008. USA: Frontier County, Nebraska. N 40.41958, W 100.59849.
- 10768 DW Roberts (DWR 877). Isolated from soil sample SS 4761. 6 Aug 2008. USA: Albany County, Wyoming. N 42.071891, W 106.0349178.
- 10769 DW Roberts (DWR 878). Isolated from soil sample SS 4728. 3 Jun 2008. USA: Menard County, Texas. N 30.84586, W 99.83236.
- 10770 DW Roberts (DWR 879). Isolated from soil sample SS 6893. 8 Jul 2008. USA: Morgan County, Utah. N 41.2125, W 111.3418.
- 10771 DW Roberts (DWR 884). Isolated from soil sample SS 1894. 23 Jul 2008. USA: Hitchcock County, Nebraska. N 40.03273, W 100.89821.
- 10773 DW Roberts (DWR 886). Isolated from soil sample SS 1917. 28 Jul 2008. USA: Frontier County, Nebraska. N 40.66439, W 100.15061.

- 10774 DW Roberts (DWR 887). Isolated from soil sample SS 1911. 28 Jul 2008. USA: Frontier County, Nebraska. N 40.47876, W 100.12382.
- 10775 DW Roberts (DWR 888). Isolated from soil sample SS 4689. 22 May 2008. USA: Throckmorton County, Texas. N 33.00592, W 99.20248.
- 10776 DW Roberts (DWR 889). Isolated from soil sample SS 4620. 28 May 2008. USA: Motley County, Texas. N 33.90479, W 100.96233.
- 10777 DW Roberts (DWR 890). Isolated from soil sample SS 4651. 30 Jun 2008. USA: Hansford County, Texas. N 36.42163, W 101.27528.
- 10778 DW Roberts (DWR 891). Isolated from soil sample SS 4682. 20 May 2008. USA: Baylor County, Texas. N 33.44733, W 99.23711.
- 10779 DW Roberts (DWR 892). Isolated from soil sample SS 4617. 28 May 2008. USA: Motley County, Texas. N 34.09042, W 100.9746.
- 10780 DW Roberts (DWR 893). Isolated from soil sample SS 4676. 14 May 2008. USA: Kiowa County, Oklahoma. N 34.85801, W 98.78252.
- 10781 DW Roberts (DWR 894). Isolated from soil sample SS 4602. 18 Jun 2008. USA: Swisher County, Texas. N 34.52972, W 101.90613.
- 10782 DW Roberts (DWR 895). Isolated from soil sample SS 4640. 3 Jun 2008. USA: Schleicher County, Texas. N 30.94188, W 100.33055.
- 10783 DW Roberts (DWR 896). Isolated from soil sample SS 4650. 30 Jun 2008. USA: Hansford County, Texas. N 36.21276, W 101.20016.
- 10784 DW Roberts (DWR 897). Isolated from soil sample SS 4727. 3 Jun 2008. USA: Menard County, Texas. N 30.78215, W 99.65649.
- 10785 DW Roberts (DWR 898). Isolated from soil sample SS 4738. 12 Jun 2008. USA: Bailey County, Texas. N 34.24297, W 102.77686.
- 10786 DW Roberts (DWR 899). Isolated from soil sample SS 4751. 7 Jul 2008. USA: Carson County, Texas. N 35.32781, W 101.16815.
- 10787 DW Roberts (DWR 901). Isolated from soil sample SS 5439. 16 Jun 2008. USA: Ziebach County, South Dakota. N 44.735197, W 101.4972383.
- 10788 DW Roberts (DWR 902). Isolated from soil sample SS 6747. 26 Jun 2008. USA: Grand County, Utah. N 38.5127, W 109.1724.
- 10789 DW Roberts (DWR 903). Isolated from soil sample SS 7649. Jul 2008. USA: San Juan County, Utah. N 38.0939, W 109.4602.
- 10790 DW Roberts (DWR 904). Isolated from soil sample SS 7655. Jul 2008. USA: San Juan County, Utah. N 38.1042, W 109.1029.
- 10791 DW Roberts (DWR 905). Isolated from soil sample SS 5544. 1 Jul 2008. USA: Jackson County, South Dakota. N 43.6684, W 101.755.
- 10792 DW Roberts (DWR 906). Isolated from soil sample SS 5529. 1 Jul 2008. USA: Meade County, South Dakota. N 44.8927, W 102.0457.
- 10793 DW Roberts (DWR 907). Isolated from soil sample SS 5680. 24 Jun 2008. USA: Lyman County, South Dakota. N 43.7519, W 100.2999.
- 10794 DW Roberts (DWR 908). Isolated from soil sample SS 5792. 10 Jun 2008. USA: Shannon County, South Dakota. N 43.52098, W 102.6821.
- 10795 DW Roberts (DWR 909). Isolated from soil sample SS 5764. 10 Jun 2008. USA: Gregory County, South Dakota. N 43.0464, W 98.7881.
- 10796 DW Roberts (DWR 910). Isolated from soil sample SS 4842. 11 Aug 2008. USA: Weston County, Wyoming. N 44.085785, W 104.14537716.
- 10797 DW Roberts (DWR 921). Isolated from soil sample SS 5845. 19 Jun 2008. USA: Corson County, South Dakota. N 45.55521, W 101.8609.
- 10798 DW Roberts (DWR 922). Isolated from soil sample SS 5826. 11 Jun 2008. USA: Tripp County, South Dakota. N 43.3863, W 100.0755.
- 10800 DW Roberts (DWR 924). Isolated from soil sample SS 6142. 18 Aug 2008. USA: Sheridan County, Nebraska. N 42.261535, W 102.081455.
- 10801 DW Roberts (DWR 925). Isolated from soil sample SS 6149. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.893785, W 102.54726.
- 10802 DW Roberts (DWR 926). Isolated from soil sample SS 6141. 18 Aug 2008. USA: Sheridan County, Nebraska. N 42.245015, W 102.235845.
- 10803 DW Roberts (DWR 927). Isolated from soil sample SS 6094. Jul 2008. USA: Dawes County, Nebraska. N 42.53117, W 102.94981.
- 10804 DW Roberts (DWR 928). Isolated from soil sample SS 5651. 24 Jun 2008. USA: Lyman County, South Dakota. N 43.8997, W 100.166.
- 10805 DW Roberts (DWR 929). Isolated from soil sample SS 6177. 7 Aug 2008. USA: Box Butte County, Nebraska. N 42.15098, W 102.771565.
- 10806 DW Roberts (DWR 930). Isolated from soil sample SS 6549. 1 Jul 2008. USA: Millard County, Utah. N 39.1156, W 113.1209.
- 10807 DW Roberts (DWR 931). Isolated from soil sample SS 6079. Jul 2008. USA: Dawes County, Nebraska. N 42.748135, W 103.17628.
- 10808 DW Roberts (DWR 932). Isolated from soil sample SS 6175. 7 Aug 2008. USA: Dawes County, Nebraska. N 42.664655, W 102.85194.
- 10809 DW Roberts (DWR 933). Isolated from soil sample SS 5927. 12 Jun 2008. USA: Ziebach County, South Dakota. N 44.613773, W 101.47825.
- 10810 DW Roberts (DWR 934). Isolated from soil sample SS 5895. 25 Jun 2008. USA: Todd County, South Dakota. N 43.06763, W 100.747919.



- 10811 DW Roberts (DWR 935). Isolated from soil sample SS 5901. 1 Jul 2008. USA: Buffalo County, South Dakota. N 44.07779, W 99.2063.
- 10812 DW Roberts (DWR 936). Isolated from soil sample SS 6001. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.73556, W 102.69261.
- 10813 DW Roberts (DWR 937). Isolated from soil sample SS 6043. 5 Aug 2008. USA: Dawes County, Nebraska. N 42.999545, W 103.019905.
- 10814 DW Roberts (DWR 938). Isolated from soil sample SS 6036. 5 Aug 2008. USA: Dawes County, Nebraska. N 42.92187, W 103.213995.
- 10815 DW Roberts (DWR 939). Isolated from soil sample SS 6054. 28 Jul 2008. USA: Banner County, Nebraska. N 41.565045, W 103.406485.
- 10816 DW Roberts (DWR 943). Isolated from soil sample SS 7109. 27 Jun 2008. USA: Piute County, Utah. N 38.40407, W 112.34563.
- 10817 DW Roberts (DWR 944). Isolated from soil sample SS 7111. 27 Jun 2008. USA: Piute County, Utah. N 38.22146, W 112.31586.
- 10818 DW Roberts (DWR 945). Isolated from soil sample SS 7123. 27 Jun 2008. USA: Millard County, Utah. N 38.5912, W 113.57.
- 10819 DW Roberts (DWR 946). Isolated from soil sample SS 7151. 6 Jul 2008. USA: Millard County, Utah. N 39.1851, W 114.0011.
- 10820 DW Roberts (DWR 947). Isolated from soil sample SS 6196. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.733655, W 103.292475.
- 10821 DW Roberts (DWR 948). Isolated from soil sample SS 5711. 1 Jul 2008. USA: Butte County, South Dakota. N 44.795258, W 103.26403.
- 10822 DW Roberts (DWR 949). Isolated from soil sample SS 5776. 25 Jun 2008. USA: Todd County, South Dakota. N 43.30257, W 100.55683.
- 10823 DW Roberts (DWR 950). Isolated from soil sample SS 7102. 27 Jun 2008. USA: Garfield County, Utah. N 38.10389, W 112.27619.
- 10824 DW Roberts (DWR 951). Isolated from soil sample SS 7055. 11 Jun 2008. USA: Tooele County, Utah. N 40.0207, W 113.1327.
- 10825 DW Roberts (DWR 952). Isolated from soil sample SS 6018. 20 Aug 2008. USA: Sheridan County, Nebraska. N 42.213985, W 102.427245.
- 10826 DW Roberts (DWR 953). Isolated from soil sample SS 5899. 1 Jul 2008. USA: Buffalo County, South Dakota. N 44.1371, W 99.005.
- 10827 DW Roberts (DWR 954). Isolated from soil sample SS 7090. 27 Jun 2008. USA: Piute County, Utah. N 38.22938, W 112.296.
- 10828 DW Roberts (DWR 955). Isolated from soil sample SS 7107. 27 Jun 2008. USA: Piute County, Utah. N 38.29251, W 112.34023.
- 10829 DW Roberts (DWR 956). Isolated from soil sample SS 7138. 27 Jun 2008. USA: Millard County, Utah. N 39.1655, W 113.0321.
- 10830 DW Roberts (DWR 957). Isolated from soil sample SS 7147. 2 Jul 2008. USA: Millard County, Utah. N 38.5907, W 113.5115.
- 10831 DW Roberts (DWR 958). Isolated from soil sample SS 5722. 17 Jun 2008. USA: Ziebach County, South Dakota. N 45.419595, W 101.778723.
- 10832 DW Roberts (DWR 959). Isolated from soil sample SS 7104. 27 Jun 2008. USA: Garfield County, Utah. N 38.04132, W 112.31939.
- 10833 DW Roberts (DWR 960). Isolated from soil sample SS 6004. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.90097, W 102.379625.
- 10834 DW Roberts (DWR 961). Isolated from soil sample SS 6069. 4 Aug 2008. USA: Sioux County, Nebraska. N 42.52465, W 103.598405.
- 10835 DW Roberts (DWR 962). Isolated from soil sample SS 5917. 10 Jun 2008. USA: Pennington County, South Dakota. N 43.777916, W 102.537261.
- 10836 DW Roberts (DWR 963). Isolated from soil sample SS 6057. 28 Jul 2008. USA: Banner County, Nebraska. N 41.5017, W 103.42739.
- 10837 DW Roberts (DWR 964). Isolated from soil sample SS 5900. 1 Jul 2008. USA: Buffalo County, South Dakota. N 44.00613, W 99.2665.
- 10838 DW Roberts (DWR 965). Isolated from soil sample SS 5897. 1 Jul 2008. USA: Buffalo County, South Dakota. N 44.0807, W 99.43796.
- 10839 DW Roberts (DWR 966). Isolated from soil sample SS 7113. 27 Jun 2008. USA: Piute County, Utah. N 38.4155, W 112.35473.
- 10840 DW Roberts (DWR 967). Isolated from soil sample SS 6258. 12 Aug 2008. USA: Apache County, Arizona. N 34.37873, W 109.68482.
- 10841 DW Roberts (DWR 968). Isolated from soil sample SS 6202. 12 Aug 2008. USA: Coconino County, Arizona. N 34.306083, W 110.8977983.
- 10842 DW Roberts (DWR 969). Isolated from soil sample SS 6174. 7 Aug 2008. USA: Box Butte County, Nebraska. N 42.28555, W 102.75739.
- 10843 DW Roberts (DWR 970). Isolated from soil sample SS 6185. 11 Aug 2008. USA: Morrill County, Nebraska. N 41.55868, W 103.348755.
- 10844 DW Roberts (DWR 971). Isolated from soil sample SS 6120. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.74988, W 102.936425.
- 10849 DW Roberts (DWR 976). Isolated from soil sample SS 6126. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.692075, W 102.983275.
- 10850 DW Roberts (DWR 977). Isolated from soil sample SS 7220. 21 Jul 2008. USA: Garfield County, Utah. N 38.104, W 112.0426.

- 10851 DW Roberts (DWR 978). Isolated from soil sample SS 6099. 16 Jul 2008. USA: Box Butte County, Nebraska. N 42.051265, W 103.033715.
- 10852 DW Roberts (DWR 979). Isolated from soil sample SS 7120. 27 Jun 2008. USA: Millard County, Utah. N 39.273, W 113.5929.
- 10853 DW Roberts (DWR 980). Isolated from soil sample SS 6125. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.49912, W 102.9649.
- 10854 DW Roberts (DWR 981). Isolated from soil sample SS 7140. 27 Jun 2008. USA: Millard County, Utah. N 39.1836, W 112.5825.
- 10855 DW Roberts (DWR 982). Isolated from soil sample SS 6098. 16 Jul 2008. USA: Morrill County, Nebraska. N 41.918445, W 103.087495.
- 10856 DW Roberts (DWR 983). Isolated from soil sample SS 6114. 28 Jul 2008. USA: Banner County, Nebraska. N 41.568715, W 103.585345.
- 10857 DW Roberts (DWR 984). Isolated from soil sample SS 6969. 31 Jul 2008. USA: Uintah County, Utah. N 40.3903, W 109.104.
- 10858 DW Roberts (DWR 985). Isolated from soil sample SS 6139. 18 Aug 2008. USA: Sheridan County, Nebraska. N 42.336745, W 102.08199.
- 10859 DW Roberts (DWR 986). Isolated from soil sample SS 7148. 3 Jul 2008. USA: Millard County, Utah. N 39.1615, W 113.0852.
- 10860 DW Roberts (DWR 987). Isolated from soil sample SS 6097. 16 Jul 2008. USA: Morrill County, Nebraska. N 41.94954, W 103.009035.
- 10861 DW Roberts (DWR 988). Isolated from soil sample SS 7207. 21 Jul 2008. USA: Sevier County, Utah. N 39.0119, W 111.444.
- 10862 DW Roberts (DWR 989). Isolated from soil sample SS 6225. 12 Aug 2008. USA: Apache County, Arizona. N 34.183518, W 109.732445.
- 10863 DW Roberts (DWR 990). Isolated from soil sample SS 6952. 23 Jul 2008. USA: Grand County, Utah. N 39.3121, W 109.0939.
- 10864 DW Roberts (DWR 991). Isolated from soil sample SS 6266. 20 Sep 2008. USA: La Paz County, Arizona. N 33.27935, W 114.42816.
- 10865 DW Roberts (DWR 992). Isolated from soil sample SS 7115. 27 Jun 2008. USA: Beaver County, Utah. N 38.28483, W 112.36637.
- 10866 DW Roberts (DWR 993). Isolated from soil sample SS 7219. 21 Jul 2008. USA: Sevier County, Utah. N 38.5403, W 111.5419.
- 10867 DW Roberts (DWR 994). Isolated from soil sample SS 7122. 27 Jun 2008. USA: Beaver County, Utah. N 38.4151, W 113.1211.
- 10868 DW Roberts (DWR 995). Isolated from soil sample SS 6560. 1 Jul 2008. USA: Millard County, Utah. N 38.5914, W 113.1619.
- 10869 DW Roberts (DWR 996). Isolated from soil sample SS 6151. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.87849, W 102.4625.
- 10870 DW Roberts (DWR 997). Isolated from soil sample SS 6156. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.847235, W 102.104245.
- 10871 DW Roberts (DWR 998). Isolated from soil sample SS 6190. 11 Aug 2008. USA: Morrill County, Nebraska. N 41.620705, W 103.099345.
- 10872 DW Roberts (DWR 999). Isolated from soil sample SS 7130. 27 Jun 2008. USA: Beaver County, Utah. N 38.5031, W 113.4135.
- 10873 DW Roberts (DWR 1000). Isolated from soil sample SS 6122. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.46098, W 102.78185.
- 10874 DW Roberts (DWR 1001). Isolated from soil sample SS 7131. 27 Jun 2008. USA: Beaver County, Utah. N 38.5434, W 113.4241.
- 10876 DW Roberts (DWR 1003). Isolated from soil sample SS 6140. 18 Aug 2008. USA: Sheridan County, Nebraska. N 42.05945, W 102.463275.
- 10877 DW Roberts (DWR 1004). Isolated from soil sample SS 6143. 19 Aug 2008. USA: Sheridan County, Nebraska. N 42.744705, W 102.357825.
- 10878 DW Roberts (DWR 1005). Isolated from soil sample SS 6199. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.552865, W 102.818175.
- 10879 DW Roberts (DWR 1006). Isolated from soil sample SS 6078. 14 Jul 2008. USA: Dawes County, Nebraska. N 42.568015, W 103.126365.
- 10880 DW Roberts (DWR 1007). Isolated from soil sample SS 6118. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.62666, W 102.65576.
- 10881 DW Roberts (DWR 1008). Isolated from soil sample SS 6195. 12 Aug 2008. USA: Morrill County, Nebraska. N 41.684995, W 103.073455.
- 10882 DW Roberts (DWR 1009). Isolated from soil sample SS 6212. 12 Aug 2008. USA: Apache County, Arizona. N 34.530787, W 109.757345.
- 10883 DW Roberts (DWR 1010). Isolated from soil sample SS 6244. 12 Aug 2008. USA: Coconino County, Arizona. N 35.332517, W 112.459995.
- 10884 DW Roberts (DWR 1011). Isolated from soil sample SS 6251. 12 Aug 2008. USA: Coconino County, Arizona. N 35.321033, W 112.2464.
- 10885 DW Roberts (DWR 1012). Isolated from soil sample SS 7108. 27 Jun 2008. USA: Beaver County, Utah. N 38.28492, W 112.36634.
- 10886 DW Roberts (DWR 1013). Isolated from soil sample SS 7112. 27 Jun 2008. USA: Piute County, Utah. N 38.28134, W 112.34828.
- 10887 DW Roberts (DWR 1014). Isolated from soil sample SS 7118. 27 Jun 2008. USA: Millard County, Utah. N 39.3111, W 113.575.

- 10888 DW Roberts (DWR 1015). Isolated from soil sample SS 7119. 27 Jun 2008. USA: Millard County, Utah. N 39.1431, W 113.242.
- 10889 DW Roberts (DWR 1016). Isolated from soil sample SS 7125. 27 Jun 2008. USA: Millard County, Utah. N 39.2307, W 113.5035.
- 10890 DW Roberts (DWR 1017). Isolated from soil sample SS 7129. 27 Jun 2008. USA: Beaver County, Utah. N 38.4652, W 112.5523.
- 10891 DW Roberts (DWR 1018). Isolated from soil sample SS 7133. 27 Jun 2008. USA: Beaver County, Utah. N 38.4408, W 113.2225.
- 10892 DW Roberts (DWR 1019). Isolated from soil sample SS 7137. 27 Jun 2008. USA: Millard County, Utah. N 39.1859, W 112.525.
- 10893 DW Roberts (DWR 1020). Isolated from soil sample SS 7142. 27 Jun 2008. USA: Beaver County, Utah. N 38.4223, W 113.1741.
- 10894 DW Roberts (DWR 1021). Isolated from soil sample SS 7145. 30 Jun 2008. USA: Beaver County, Utah. N 38.43, W 112.5808.
- 10895 DW Roberts (DWR 1022). Isolated from soil sample SS 7146. 1 Jul 2008. USA: Millard County, Utah. N 39.2633, W 113.5359.
- 10896 DW Roberts (DWR 1023). Isolated from soil sample SS 7149. 4 Jul 2008. USA: Beaver County, Utah. N 38.4512, W 113.2812.
- 10897 DW Roberts (DWR 1024). Isolated from soil sample SS 7150. 5 Jul 2008. USA: Millard County, Utah. N 39.1432, W 114.0012.
- 10898 DW Roberts (DWR 1025). Isolated from soil sample SS 7179. 29 Jul 2008. USA: Box Elder County, Utah. N 41.5372, W 113.2677.
- 10899 DW Roberts (DWR 1026). Isolated from soil sample SS 7181. 30 Jul 2008. USA: Box Elder County, Utah. N 41.533, W 113.2865.
- 10900 DW Roberts (DWR 1027). Isolated from soil sample SS 7187. 2 Jun 2008. USA: Millard County, Utah. N 39.3639, W 113.2907.
- 10901 DW Roberts (DWR 1028). Isolated from soil sample SS 7189. 21 Jul 2008. USA: Wayne County, Utah. N 38.1827, W 111.5807.
- 10902 DW Roberts (DWR 1029). Isolated from soil sample SS 7190. 3 Jun 2008. USA: Tooele County, Utah. N 40.1734, W 113.5921.
- 10903 DW Roberts (DWR 1030). Isolated from soil sample SS 7191. 3 Jun 2008. USA: Tooele County, Utah. N 40.0716, W 113.5827.
- 10904 DW Roberts (DWR 1031). Isolated from soil sample SS 7200. 21 Jul 2008. USA: Piute County, Utah. N 38.4239, W 112.0235.
- 10905 DW Roberts (DWR 1032). Isolated from soil sample SS 7203. 21 Jul 2008. USA: Garfield County, Utah. N 38.1402, W 111.5932.
- 10906 DW Roberts (DWR 1033). Isolated from soil sample SS 7206. 21 Jul 2008. USA: Piute County, Utah. N 38.4006, W 112.0604.
- 10907 DW Roberts (DWR 1034). Isolated from soil sample SS 7208. 21 Jul 2008. USA: Wayne County, Utah. N 38.4742, W 111.5922.
- 10908 DW Roberts (DWR 1035). Isolated from soil sample SS 7209. 21 Jul 2008. USA: Wayne County, Utah. N 38.4354, W 111.5841.
- 10909 DW Roberts (DWR 1036). Isolated from soil sample SS 7213. 21 Jul 2008. USA: Wayne County, Utah. N 38.3101, W 111.5253.
- 10910 DW Roberts (DWR 1037). Isolated from soil sample SS 7215. 21 Jul 2008. USA: Piute County, Utah. N 38.1755, W 112.1332.
- 10911 DW Roberts (DWR 1038). Isolated from soil sample SS 7217. 21 Jul 2008. USA: Piute County, Utah. N 38.2205, W 112.1329.
- 10912 DW Roberts (DWR 1039). Isolated from soil sample SS 7226. 22 Jul 2008. USA: Garfield County, Utah. N 38.0904, W 112.1725.
- 10913 DW Roberts (DWR 1040). Isolated from soil sample SS 7228. 22 Jul 2008. USA: Garfield County, Utah. N 38.0547, W 112.2011.
- 10914 DW Roberts (DWR 1041). Isolated from soil sample SS 7229. 22 Jul 2008. USA: Wayne County, Utah. N 38.1839, W 111.2315.
- 10915 DW Roberts (DWR 1042). Isolated from soil sample SS 7230. 22 Jul 2008. USA: Wayne County, Utah. N 38.16, W 111.0443.
- 10916 DW Roberts (DWR 1043). Isolated from soil sample SS 7231. 22 Jul 2008. USA: Kane County, Utah. N 37.4242, W 112.1434.
- 10917 DW Roberts (DWR 1044). Isolated from soil sample SS 7234. 22 Jul 2008. USA: Wayne County, Utah. N 38.2952, W 111.5.
- 10918 DW Roberts (DWR 1045). Isolated from soil sample SS 7235. 22 Jul 2008. USA: Wayne County, Utah. N 38.2605, W 111.4156.
- 10919 DW Roberts (DWR 1046). Isolated from soil sample SS 7236. 22 Jul 2008. USA: Garfield County, Utah. N 38.0708, W 111.1932.
- 10920 DW Roberts (DWR 1047). Isolated from soil sample SS 7237. 22 Jul 2008. USA: Wayne County, Utah. N 38.4133, W 111.5212.
- 10921 DW Roberts (DWR 1048). Isolated from soil sample SS 6178. 7 Aug 2008. USA: Box Butte County, Nebraska. N 42.220095, W 102.78352.
- 10922 DW Roberts (DWR 1049). Isolated from soil sample SS 6979. 5 Aug 2008. USA: Sanpete County, Utah. N 39.29, W 111.4052.
- 10923 DW Roberts (DWR 1050). Isolated from soil sample SS 6986. May 2008. USA: Millard County, Utah. N 39.5249, W 113.3908.

- 10924 DW Roberts (DWR 1051). Isolated from soil sample SS 6992. May 2008. USA: Box Elder County, Utah. N 41.5011, W 113.5323.
- 10925 DW Roberts (DWR 1052). Isolated from soil sample SS 7047. 11 Jun 2008. USA: Juab County, Utah. N 39.5614, W 112.4738.
- 10926 DW Roberts (DWR 1053). Isolated from soil sample SS 7003. May 2008. USA: Cassia County, Idaho. N 42.0105, W 113.5813.
- 10927 DW Roberts (DWR 1054). Isolated from soil sample SS 7000. May 2008. USA: Box Elder County, Utah. N 41.4607, W 113.5115.
- 10928 DW Roberts (DWR 1055). Isolated from soil sample SS 7005. May 2008. USA: Box Elder County, Utah. N 41.5104, W 113.4724.
- 10929 DW Roberts (DWR 1056). Isolated from soil sample SS 7006. May 2008. USA: Box Elder County, Utah. N 41.5136, W 113.5242.
- 10930 DW Roberts (DWR 1057). Isolated from soil sample SS 7011. May 2008. USA: Box Elder County, Utah. N 41.47394, W 113.55089.
- 10931 DW Roberts (DWR 1058). Isolated from soil sample SS 7018. 16 May 2008. USA: Box Elder County, Utah. N 41.5054, W 113.5226.
- 10932 DW Roberts (DWR 1059). Isolated from soil sample SS 7021. 5 Jun 2008. USA: Tooele County, Utah. N 40.032, W 112.181.
- 10933 DW Roberts (DWR 1060). Isolated from soil sample SS 7024. 9 Jun 2008. USA: Duchesne County, Utah. N 40.0953, W 110.1709.
- 10934 DW Roberts (DWR 1061). Isolated from soil sample SS 7027. 9 Jun 2008. USA: Duchesne County, Utah. N 40.1421, W 110.0402.
- 10935 DW Roberts (DWR 1062). Isolated from soil sample SS 7031. 9 Jun 2008. USA: Duchesne County, Utah. N 40.1015, N 110.3412.
- 10936 DW Roberts (DWR 1063). Isolated from soil sample SS 7044. 11 Jun 2008. USA: Millard County, Utah. N 39.4952, W 112.3912.
- 10937 DW Roberts (DWR 1064). Isolated from soil sample SS 7046. 11 Jun 2008. USA: Tooele County, Utah. N 40.0035, W 113.0854.
- 10938 DW Roberts (DWR 1065). Isolated from soil sample SS 7052. 11 Jun 2008. USA: Juab County, Utah. N 39.5815, W 113.1348.
- 10939 DW Roberts (DWR 1066). Isolated from soil sample SS 7057. 11 Jun 2008. USA: Millard County, Utah. N 39.5307, W 112.4459.
- 10940 DW Roberts (DWR 1067). Isolated from soil sample SS 7060. 12 Jun 2008. USA: Tooele County, Utah. N 40.4505, W 112.5855.
- 10941 DW Roberts (DWR 1068). Isolated from soil sample SS 7066. 16 Jun 2008. USA: Summit County, Utah. N 41.0045, W 111.3055.
- 10942 DW Roberts (DWR 1069). Isolated from soil sample SS 7077. 20 Jun 2008. USA: Wasatch County, Utah. N 40.2107, W 111.0409.
- 10943 DW Roberts (DWR 1070). Isolated from soil sample SS 7089. 27 Jun 2008. USA: Beaver County, Utah. N 38.28487, W 112.36624.
- 10944 DW Roberts (DWR 1071). Isolated from soil sample SS 7082. 2 Jul 2008. USA: Emery County, Utah. N 39.3854, W 111.2211.
- 10945 DW Roberts (DWR 1072). Isolated from soil sample SS 7085. 3 Jul 2008. USA: Duchesne County, Utah. N 40.3232, W 110.0842.
- 10946 DW Roberts (DWR 1073). Isolated from soil sample SS 7098. 27 Jun 2008. USA: Garfield County, Utah. N 38.05085, W 112.27545.
- 10948 DW Roberts (DWR 1075). Isolated from soil sample SS 6551. 1 Jul 2008. USA: Millard County, Utah. N 39.3318, W 113.0619.
- 10949 DW Roberts (DWR 1076). Isolated from soil sample SS 6570. 1 Jul 2008. USA: Iron County, Utah. N 37.5319, W 113.1214.
- 10950 DW Roberts (DWR 1077). Isolated from soil sample SS 6982. 7 Aug 2008. USA: Juab County, Utah. N 39.5817, W 112.0505.
- 10951 DW Roberts (DWR 1078). Isolated from soil sample SS 6989. May 2008. USA: Box Elder County, Utah. N 41.573, W 114.004.
- 10952 DW Roberts (DWR 1079). Isolated from soil sample SS 6991. May 2008. USA: Box Elder County, Utah. N 41.1134, W 113.5731.
- 10953 DW Roberts (DWR 1080). Isolated from soil sample SS 6992. May 2008. USA: Box Elder County, Utah. N 41.5011, W 113.5323.
- 10954 DW Roberts (DWR 1081). Isolated from soil sample SS 7001. May 2008. USA: Box Elder County, Utah. N 41.4807, W 113.5703.
- 10955 DW Roberts (DWR 1082). Isolated from soil sample SS 7004. May 2008. USA: Box Elder County, Utah. N 41.4829, W 113.5411.
- 10956 DW Roberts (DWR 1083). Isolated from soil sample SS 7009. May 2008. USA: Box Elder County, Utah. N 41.46394, W 113.54373.
- 10957 DW Roberts (DWR 1084). Isolated from soil sample SS 7013. May 2008. USA: Box Elder County, Utah. N 41.47287, W 113.534.
- 10958 DW Roberts (DWR 1085). Isolated from soil sample SS 7019. 16 May 2008. USA: Box Elder County, Utah. N 41.5078, W 113.5249.
- 10959 DW Roberts (DWR 1086). Isolated from soil sample SS 7022. 9 Jun 2008. USA: Carbon County, Utah. N 39.541, W 110.4352.
- 10960 DW Roberts (DWR 1087). Isolated from soil sample SS 7026. 9 Jun 2008. USA: Emery County, Utah. N 39.4558, W 110.3846.

- 10961 DW Roberts (DWR 1088). Isolated from soil sample SS 7033. 9 Jun 2008. USA: Emery County, Utah. N 39.3119, W 110.4453.
- 10962 DW Roberts (DWR 1089). Isolated from soil sample SS 7035. 10 Jun 2008. USA: Emery County, Utah. N 39.5718, W 111.1518.
- 10963 DW Roberts (DWR 1090). Isolated from soil sample SS 7041. 10 Jun 2008. USA: Sanpete County, Utah. N 39.5659, W 111.5753.
- 10964 DW Roberts (DWR 1091). Isolated from soil sample SS 7048. 11 Jun 2008. USA: Juab County, Utah. N 39.5932, W 112.4835.
- 10965 DW Roberts (DWR 1092). Isolated from soil sample SS 7051. 11 Jun 2008. USA: Tooele County, Utah. N 40.1431, W 113.561.
- 10966 DW Roberts (DWR 1093). Isolated from soil sample SS 7053. 11 Jun 2008. USA: Juab County, Utah. N 39.4011, W 112.0404.
- 10967 DW Roberts (DWR 1094). Isolated from soil sample SS 7056. 11 Jun 2008. USA: Millard County, Utah. N 39.4721, W 112.334.
- 10968 DW Roberts (DWR 1095). Isolated from soil sample SS 7061. 12 Jun 2008. USA: Tooele County, Utah. N 40.3814, W 112.5231.
- 10969 DW Roberts (DWR 1096). Isolated from soil sample SS 7068. 17 Jun 2008. USA: Duchesne County, Utah. N 40.2436, W 110.4634.
- 10970 DW Roberts (DWR 1097). Isolated from soil sample SS 7076. 20 Jun 2008. USA: Duchesne County, Utah. N 40.1759, W 110.4146.
- 10971 DW Roberts (DWR 1098). Isolated from soil sample SS 7079. 23 Jun 2008. USA: Rock Island, Utah. N 41.4522, W 112.2604.
- 10972 DW Roberts (DWR 1099). Isolated from soil sample SS 7087. 27 Jun 2008. USA: Piute County, Utah. N 38.43047, W 112.22482.
- 10973 DW Roberts (DWR 1100). Isolated from soil sample SS 7097. 27 Jun 2008. USA: Piute County, Utah. N 38.28139, W 112.34832.
- 10974 DW Roberts (DWR 1101). Isolated from soil sample SS 7099. 27 Jun 2008. USA: Piute County, Utah. N 38.46293, W 112.23794.
- 10975 DW Roberts (DWR 1102). Isolated from soil sample SS 7101. 27 Jun 2008. USA: Garfield County, Utah. N 38.0381, W 112.29984.
- 10976 DW Roberts (DWR 1103). Isolated from soil sample SS 7106. 27 Jun 2008. USA: Piute County, Utah. N 38.24511, W 112.37793.
- 10977 DW Roberts (DWR 1104). Isolated from soil sample SS 6915. 9 Jul 2008. USA: San Juan County, Utah. N 38.1451, W 109.2256.
- 10978 DW Roberts (DWR 1105). Isolated from soil sample SS 6918. 10 Jul 2008. USA: Wasatch County, Utah. N 40.415, W 111.4422.
- 10979 DW Roberts (DWR 1106). Isolated from soil sample SS 6919. 10 Jul 2008. USA: Sanpete County, Utah. N 39.4308, W 111.4537.
- 10980 DW Roberts (DWR 1107). Isolated from soil sample SS 6925. 10 Jul 2008. USA: San Juan County, Utah. N 37.1755, W 109.2756.
- 10981 DW Roberts (DWR 1108). Isolated from soil sample SS 6926. 14 Jul 2008. USA: Duchesne County, Utah. N 40.5548, W 110.4439.
- 10982 DW Roberts (DWR 1109). Isolated from soil sample SS 6927. Jul 2008. USA: Rich County, Utah. N 41.4219, W 111.1026.
- 10983 DW Roberts (DWR 1110). Isolated from soil sample SS 6929. Jul 2008. USA: Rich County, Utah. N 41.4804, W 111.1437.
- 10984 DW Roberts (DWR 1111). Isolated from soil sample SS 6930. Jul 2008. USA: Morgan County, Utah. N 41.3656, W 111.3818.
- 10985 DW Roberts (DWR 1112). Isolated from soil sample SS 6933. 16 Jul 2008. USA: Box Elder County, Utah. N 41.3115, W 113.3549.
- 10986 DW Roberts (DWR 1113). Isolated from soil sample SS 6935. 16 Jul 2008. USA: Box Elder County, Utah. N 41.4322, W 112.4701.
- 10988 DW Roberts (DWR 1115). Isolated from soil sample SS 6941. 17 Jul 2008. USA: Box Elder County, Utah. N 41.4343, W 113.3124.
- 10989 DW Roberts (DWR 1116). Isolated from soil sample SS 6946. 17 Jul 2008. USA: Box Elder County, Utah. N 41.5756, W 113.011.
- 10990 DW Roberts (DWR 1117). Isolated from soil sample SS 6950. 23 Jul 2008. USA: Grand County, Utah. N 39.4302, W 109.2916.
- 10991 DW Roberts (DWR 1118). Isolated from soil sample SS 6951. 23 Jul 2008. USA: Grand County, Utah. N 39.4246, W 109.1634.
- 10992 DW Roberts (DWR 1119). Isolated from soil sample SS 6953. 23 Jul 2008. USA: Uintah County, Utah. N 39.5235, W 109.0628.
- 10993 DW Roberts (DWR 1120). Isolated from soil sample SS 6955. 23 Jul 2008. USA: Grand County, Utah. N 39.2713, W 109.095.
- 10994 DW Roberts (DWR 1121). Isolated from soil sample SS 6958. 30 Jul 2008. USA: Uintah County, Utah. N 40.5438, W 109.4119.
- 10995 DW Roberts (DWR 1122). Isolated from soil sample SS 6964. 31 Jul 2008. USA: Moffat County, Colorado. N 40.4948, W 109.0448.
- 10996 DW Roberts (DWR 1123). Isolated from soil sample SS 6965. 31 Jul 2008. USA: Moffat County, Colorado. N 40.5152, W 109.0404.
- 10997 DW Roberts (DWR 1124). Isolated from soil sample SS 6966. 31 Jul 2008. USA: Uintah County, Utah. N 40.1454, W 109.2526.

- 10998 DW Roberts (DWR 1125). Isolated from soil sample SS 6968. 31 Jul 2008. USA: Duchesne County, Utah. N 40.3139, W 110.4614.
- 10999 DW Roberts (DWR 1126). Isolated from soil sample SS 6972. 31 Jul 2008. USA: Uintah County, Utah. N 40.0501, W 109.1214.
- 11000 DW Roberts (DWR 1127). Isolated from soil sample SS 6973. 31 Jul 2008. USA: Uintah County, Utah. N 40.3707, W 109.0509.
- 11001 DW Roberts (DWR 1128). Isolated from soil sample SS 6974. 31 Jul 2008. USA: Uintah County, Utah. N 40.3914, W 109.145.
- 11002 DW Roberts (DWR 1129). Isolated from soil sample SS 6976. 4 Aug 2008. USA: Emery County, Utah. N 39.4804, W 111.2132.
- 11003 DW Roberts (DWR 1130). Isolated from soil sample SS 7153. 8 Jul 2008. USA: Millard County, Utah. N 39.0615, W 114.0212.
- 11004 DW Roberts (DWR 1131). Isolated from soil sample SS 7154. 9 Jul 2008. USA: Millard County, Utah. N 39.2303, W 113.5946.
- 11005 DW Roberts (DWR 1132). Isolated from soil sample SS 7157. Jul 2008. USA: Box Elder County, Utah. N 41.4145, W 113.5383.
- 11006 DW Roberts (DWR 1133). Isolated from soil sample SS 7164. 18 Jul 2008. USA: Piute County, Utah. N 38.4691, W 112.2516.
- 11007 DW Roberts (DWR 1134). Isolated from soil sample SS 7169. 18 Jul 2008. USA: Sevier County, Utah. N 38.5297, W 112.2016.
- 11008 DW Roberts (DWR 1135). Isolated from soil sample SS 7287. 25 Jul 2008. USA: Sevier County, Utah. N 38.5131, W 112.2508.
- 11009 DW Roberts (DWR 1136). Isolated from soil sample SS 7290. 25 Jul 2008. USA: Piute County, Utah. N 38.1601, W 112.2859.
- 11010 DW Roberts (DWR 1137). Isolated from soil sample SS 7305. 10 Jun 2008. USA: Washington County, Utah. N 37.1321, W 113.4638.
- 11011 DW Roberts (DWR 1138). Isolated from soil sample SS 7307. 10 Jun 2008. USA: Washington County, Utah. N 37.0736, W 113.3458.
- 11012 DW Roberts (DWR 1139). Isolated from soil sample SS 7308. 10 Jun 2008. USA: Washington County, Utah. N 37.1732, W 113.4508.
- 11013 DW Roberts (DWR 1140). Isolated from soil sample SS 7313. 10 Jun 2008. USA: Washington County, Utah. N 37.0945, W 113.4703.
- 11014 DW Roberts (DWR 1141). Isolated from soil sample SS 7329. 11 Jun 2008. USA: Washington County, Utah. N 37.094, W 113.0203.
- 11015 DW Roberts (DWR 1142). Isolated from soil sample SS 7289. 25 Jul 2008. USA: Piute County, Utah. N 38.4629, W 112.3128.
- 11016 DW Roberts (DWR 1143). Isolated from soil sample SS 7331, colony 1. 11 Jun 2008. USA: Kane County, Utah. N 37, W 112.5955.
- 11017 DW Roberts (DWR 1144). Isolated from soil sample SS 7331, colony 2. 11 Jun 2008. USA: Kane County, Utah. N 37, W 112.5955.
- 11018 DW Roberts (DWR 1167). Isolated from soil sample SS 7704. 17 Jul 2008. USA: San Juan County, Utah. N 37.1957, W 109.1011.
- 11019 DW Roberts (DWR 1168). Isolated from soil sample SS 7709. 17 Jul 2008. USA: Montezuma County, Colorado. N 37.4919, W 109.0347.
- 11020 DW Roberts (DWR 1169). Isolated from soil sample SS 7714. 17 Jul 2008. USA: San Juan County, Utah. N 37.0447, W 109.325.
- 11021 DW Roberts (DWR 1170). Isolated from soil sample SS 7717. 18 Jul 2008. USA: Millard County, Utah. N 39.2114, W 112.2553.
- 11022 DW Roberts (DWR 1171). Isolated from soil sample SS 7726. 14 Aug 2008. USA: Albany County, Wyoming. N 42.274842, W 105.50559.
- 11023 DW Roberts (DWR 1172). Isolated from soil sample SS 7740. 20 Aug 2008. USA: Big Horn County, Wyoming. N 44.583953, W 107.5352.
- 11024 DW Roberts (DWR 1173). Isolated from soil sample SS 7747. 20 Aug 2008. USA: Washakie County, Wyoming. N 43.955574, W 108.01491.
- 11025 DW Roberts (DWR 1174). Isolated from soil sample SS 8134. 7 Aug 2008. USA: Garfield County, Montana.
- 11026 DW Roberts (DWR 1175). Isolated from soil sample SS 8156. 27 Aug 2008. USA: Cherry County, Nebraska. N 42.833708, W 101.54122.
- 11027 DW Roberts (DWR 1176). Isolated from soil sample SS 8180. 2 Sep 2008. USA: Cherry County, Nebraska. N 42.407126, W 101.96534.
- 11028 DW Roberts (DWR 1177). Isolated from soil sample SS 8181. 2 Sep 2008. USA: Cherry County, Nebraska. N 42.392988, W 101.86405.
- 11029 DW Roberts (DWR 1178). Isolated from soil sample SS 8183. 25 Aug 2008. USA: Cherry County, Nebraska. N 42.542972, W 101.81068.
- 11030 DW Roberts (DWR 1179). Isolated from soil sample SS 8184. 25 Aug 2008. USA: Cherry County, Nebraska. N 42.556102, W 101.88454.
- 11031 DW Roberts (DWR 1185). Isolated from soil sample SS 8031. 28 Jul 2008. USA: Montana.
- 11032 DW Roberts (DWR 1186). Isolated from soil sample SS 8033. 28 Jul 2008. USA: Montana.
- 11033 DW Roberts (DWR 1187). Isolated from soil sample SS 8044. 4 Aug 2008. USA: Montana.
- 11034 DW Roberts (DWR 1188). Isolated from soil sample SS 8047. 6 Aug 2008. USA: Montana.
- 11035 DW Roberts (DWR 1189). Isolated from soil sample SS 8048. 12 Aug 2008. USA: Montana.

- 11036 DW Roberts (DWR 1190). Isolated from soil sample SS 8190. 25 Aug 2008. USA: Cherry County, Nebraska. N 42.803546, W 101.92228.
- 11037 DW Roberts (DWR 1191). Isolated from soil sample SS 8191. 25 Aug 2008. USA: Cherry County, Nebraska. N 42.921198, W 101.4544.
- 11038 DW Roberts (DWR 1192). Isolated from soil sample SS 8193. 25 Aug 2008. USA: Cherry County, Nebraska. N 42.879186, W 101.86275.
- 11039 DW Roberts (DWR 1193). Isolated from soil sample SS 8194. 26 Aug 2008. USA: Cherry County, Nebraska. N 42.926168, W 101.76368.
- 11040 DW Roberts (DWR 1194). Isolated from soil sample SS 8196. 26 Aug 2008. USA: Cherry County, Nebraska. N 42.961748, W 101.62368.
- 11041 DW Roberts (DWR 1195). Isolated from soil sample SS 8197. 26 Aug 2008. USA: Cherry County, Nebraska. N 42.936606, W 101.6383.
- 11042 DW Roberts (DWR 1197). Isolated from soil sample SS 8210. 27 Aug 2008. USA: Cherry County, Nebraska. N 42.50924, W 101.37495.
- 11043 DW Roberts (DWR 1198). Isolated from soil sample SS 8211. 27 Aug 2008. USA: Cherry County, Nebraska. N 42.597543, W 101.27849.
- 11044 DW Roberts (DWR 1199). Isolated from soil sample SS 8216. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.884978, W 101.04385.
- 11045 DW Roberts (DWR 1200). Isolated from soil sample SS 8217. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.93163, W 101.05241.
- 11046 DW Roberts (DWR 1201). Isolated from soil sample SS 8224. 6 Aug 2008. USA: Hooker County, Nebraska. N 42.005648, W 101.00252.
- 11047 DW Roberts (DWR 1202). Isolated from soil sample SS 8227. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.831542, W 101.03613.
- 11048 DW Roberts (DWR 1203). Isolated from soil sample SS 8232. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.842936, W 101.40832.
- 11049 DW Roberts (DWR 1204). Isolated from soil sample SS 7007. May 2008. USA: Box Elder County, Utah. N 41.4735, W 113.5545.
- 11051 DW Roberts (DWR 1206). Isolated from soil sample SS 7498. 28 Jul 2008. USA: Sevier County, Utah. N 38.5408, W 111.5746.
- 11052 DW Roberts (DWR 1207). Isolated from soil sample SS 7775. 20 Aug 2008. USA: Platte County, Wyoming. N 41.929569, W 104.93745.
- 11055 DW Roberts (DWR 1210). Isolated from soil sample SS 7815. 26 Aug 2008. USA: Park County, Wyoming. N 44.422581, W 109.20904.
- 11056 DW Roberts (DWR 1211). Isolated from soil sample SS 7987. 25 Jul 2008. USA: Montana.
- 11057 DW Roberts (DWR 1212). Isolated from soil sample SS 7990. 30 Jul 2008. USA: Montana.
- 11058 DW Roberts (DWR 1213). Isolated from soil sample SS 7992. 30 Jul 2008. USA: Montana.
- 11059 DW Roberts (DWR 1214). Isolated from soil sample SS 7996. 9 Jul 2008. USA: Montana.
- 11060 DW Roberts (DWR 1216). Isolated from soil sample SS 8004. 31 Jul 2008. USA: Park County, Montana.
- 11061 DW Roberts (DWR 1217). Isolated from soil sample SS 8007. 5 Aug 2008. USA: Missoula County, Montana.
- 11062 DW Roberts (DWR 1218). Isolated from soil sample SS 8009. 29 Jul 2008. USA: Stillwater County, Montana.
- 11063 DW Roberts (DWR 1219). Isolated from soil sample SS 8015. 9 Jul 2008. USA: Fergus County, Montana. N 46.8575, W 108.978.
- 11064 DW Roberts (DWR 1220). Isolated from soil sample SS 8018. Jul 2008. USA: Golden Valley County, Montana. N 46.5858, W 109.2624.
- 11065 DW Roberts (DWR 1221). Isolated from soil sample SS 8022. 16 Jul 2008. USA: Golden Valley County, Montana. N 47.20932, W 109.19063.
- 11066 DW Roberts (DWR 1222). Isolated from soil sample SS 8026. 28 Jul 2008. USA: Montana.
- 11069 DW Roberts (DWR 1225). Isolated from soil sample SS 8055. Jul 2008. USA: Powder River County, Montana.
- 11070 DW Roberts (DWR 1226). Isolated from soil sample SS 8059. Jul 2008. USA: Powder River County, Montana.
- 11071 DW Roberts (DWR 1227). Isolated from soil sample SS 8060. Jul 2008. USA: Powder River County, Montana.
- 11072 DW Roberts (DWR 1228). Isolated from soil sample SS 8061. Jul 2008. USA: Musselshell County, Montana. N 46.2435, W 108.6204.
- 11073 DW Roberts (DWR 1229). Isolated from soil sample SS 8064. 16 Jul 2008. USA: Powder River County, Montana.
- 11075 DW Roberts (DWR 1231). Isolated from soil sample SS 8217. 6 Aug 2008. USA: Hooker County, Nebraska. N 41.93163, W 101.05241.
- 11076 DW Roberts (DWR 1232). Isolated from soil sample SS 8239. 11 Aug 2008. USA: Hooker County, Nebraska. N 41.759492, W 101.26943.
- 11077 DW Roberts (DWR 1233). Isolated from soil sample SS 8242. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.570262, W 101.38229.
- 11078 DW Roberts (DWR 1234). Isolated from soil sample SS 8274. 18 Aug 2008. USA: Arthur County, Nebraska. N 41.718988, W 101.46193.
- 11079 DW Roberts (DWR 1235). Isolated from soil sample SS 8275. 18 Aug 2008. USA: Arthur County, Nebraska. N 41.680385, W 101.44429.

- 11080 DW Roberts (DWR 1236). Isolated from soil sample SS 8281. 12 Aug 2008. USA: McPherson County, Nebraska. N 41.668153, W 100.857.
- 11081 DW Roberts (DWR 1237). Isolated from soil sample SS 8282. Aug 2008. USA: McPherson County, Nebraska. N 41.719346, W 101.36375.
- 11082 DW Roberts (DWR 1238). Isolated from soil sample SS 8285. 20 Aug 2008. USA: Arthur County, Nebraska. N 41.557188, W 101.57101.
- 11083 DW Roberts (DWR 1257). Isolated from soil sample SS 8856. 9 Jun 2008. USA: Bent County, Colorado. N 37.687508, W 102.90237.
- 11084 DW Roberts (DWR 1258). Isolated from soil sample SS 8896. 11 Jul 2008. USA: Cheyenne County, Colorado. N 38.697155, W 102.25783.
- 11085 DW Roberts (DWR 1259). Isolated from soil sample SS 8907. 7 Jun 2008. USA: Prowers County, Colorado. N 38.092246, W 102.50354.
- 11086 DW Roberts (DWR 1260). Isolated from soil sample SS 8961. 5 Jul 2008. USA: Baca County, Colorado. N 37.250735, W 102.31337.
- 11088 DW Roberts (DWR 1262). Isolated from soil sample SS 8982. 30 Jun 2008. USA: Kit Carson County, Colorado. N 39.3373, W 102.26022.
- 11089 DW Roberts (DWR 1263). Isolated from soil sample SS 9007. 30 Jun 2008. USA: Yuma County, Colorado. N 40.380813, W 102.47325.
- 11090 DW Roberts (DWR 1264). Isolated from soil sample SS 9014. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.540958, W 102.52868.
- 11091 DW Roberts (DWR 1265). Isolated from soil sample SS 9037. 23 Jun 2008. USA: Cheyenne County, Colorado. N 38.762053, W 102.3322.
- 11092 DW Roberts (DWR 1266). Isolated from soil sample SS 9057. 10 Jun 2008. USA: Cheyenne County, Colorado. N 38.720766, W 102.78011.
- 11093 DW Roberts (DWR 1267). Isolated from soil sample SS 9227. 20 May 2008. USA: Lincoln County, Colorado. N 38.539851, W 103.17315.
- 11094 DW Roberts (DWR 1268). Isolated from soil sample SS 9236. 20 May 2008. USA: Kiowa County, Colorado. N 38.527758, W 102.85993.
- 11095 DW Roberts (DWR 1269). Isolated from soil sample SS 9308. 13 Jul 2008. USA: Moffat County, Colorado. N 40.84402, W 107.48035.
- 11096 DW Roberts (DWR 1270). Isolated from soil sample SS 11262. 24 Apr 2009. USA: Graham County, Arizona. N 33.19384, W 109.86892.
- 11097 DW Roberts (DWR 1271). Isolated from soil sample SS 11266. 24 Apr 2009. USA: Graham County, Arizona. N 33.19435, W 109.86784.
- 11098 DW Roberts (DWR 1272). Isolated from soil sample SS 11267. 24 Apr 2009. USA: Graham County, Arizona. N 33.19248, W 109.87383.
- 11099 DW Roberts (DWR 1273). Isolated from soil sample SS 11269. 24 Apr 2009. USA: Graham County, Arizona. N 33.19168, W 109.87527.
- 11100 DW Roberts (DWR 1274). Isolated from soil sample SS 11273. 24 Apr 2009. USA: Graham County, Arizona. N 33.19334, W 109.872.
- 11101 DW Roberts (DWR 1275). Isolated from soil sample SS 11275. 24 Apr 2009. USA: Graham County, Arizona. N 33.19495, W 109.87125.
- 11102 DW Roberts (DWR 1276). Isolated from soil sample SS 11277. 24 Apr 2009. USA: Graham County, Arizona. N 33.193, W 109.87223.
- 11103 DW Roberts (DWR 1277). Isolated from soil sample SS 11366. 18 May 2009. USA: Lamb County, Texas. N 33.91115, W 102.57365.
- 11104 DW Roberts (DWR 1278). Isolated from soil sample SS 11372. 19 May 2009. USA: Terry County, Texas. N 33.26923, W 102.51651.
- 11106 DW Roberts (DWR 1298). Isolated from soil sample SS 9338. 1 Jun 2008. USA: Kiowa County, Colorado. N 38.44999, W 102.83335.
- 11107 DW Roberts (DWR 1299). Isolated from soil sample SS 9101. 1 Jul 2008. USA: San Juan County, Colorado. N 37.8338, W 107.60068.
- 11108 DW Roberts (DWR 1300). Isolated from soil sample SS 8931. 2 Jun 2008. USA: Baca County, Colorado. N 37.381371, W 102.77804.
- 11109 DW Roberts (DWR 1301). Isolated from soil sample SS 8948. 5 Jul 2008. USA: Baca County, Colorado. N 37.149276, W 102.11788.
- 11111 DW Roberts (DWR 1303). Isolated from soil sample SS 8983. 30 Jun 2008. USA: Kit Carson County, Colorado. N 39.412156, W 102.25908.
- 11112 DW Roberts (DWR 1304). Isolated from soil sample SS 8986. 30 Jun 2008. USA: Kit Carson County, Colorado. N 39.5725, W 102.18479.
- 11114 DW Roberts (DWR 1306). Isolated from soil sample SS 9017. 23 Jun 2008. USA: Kiowa County, Colorado. N 38.600603, W 102.26955.
- 11115 DW Roberts (DWR 1307). Isolated from soil sample SS 9041. 10 Jun 2008. USA: Kiowa County, Colorado. N 38.549601, W 103.02541.
- 11116 DW Roberts (DWR 1308). Isolated from soil sample SS 9228. 20 May 2008. USA: Kiowa County, Colorado. N 38.613008, W 103.14424.
- 11117 DW Roberts (DWR 1309). Isolated from soil sample SS 9396. 5 Aug 2008. USA: Jackson County, Colorado. N 40.593288, W 106.00606.
- 11118 DW Roberts (DWR 1311). Isolated from soil sample SS 11348. 21 May 2009. USA: King County, Texas. N 33.78101, W 100.19885.
- 11119 DW Roberts (DWR 1312). Isolated from soil sample SS 11373. 19 May 2009. USA: Terry County, Texas. N 33.32707, W 102.41312.



- 11120 DW Roberts (DWR 1313). Isolated from soil sample SS 11378. 19 May 2009. USA: Yoakum County, Texas. N 33.15315, W 102.61156.
- 11121 DW Roberts (DWR 1314). Isolated from soil sample SS 9120. 8 Jul 2008. USA: Rio Blanco County, Colorado. N 39.7447, W 109.0465.
- 11122 DW Roberts (DWR 1315). Isolated from soil sample SS 9510. 10 Jul 2008. USA: Montezuma County, Colorado. N 37.302316, W 108.6412.
- 11123 DW Roberts (DWR 1316). Isolated from soil sample SS 8979. 13 Jul 2008. USA: Cheyenne County, Colorado. N 38.853608, W 102.5746.
- 11124 DW Roberts (DWR 1317). Isolated from soil sample SS 11320. 13 May 2009. USA: Briscoe County, Texas. N 34.55293, W 100.96094.
- 11125 DW Roberts (DWR 1318). Isolated from soil sample SS 11322. 13 May 2009. USA: Briscoe County, Texas. N 34.65285, W 101.44141.
- 11126 DW Roberts (DWR 1319). Isolated from soil sample SS 11311. 13 May 2009. USA: Motley County, Texas. N 34.14235, W 100.70437.
- 11127 DW Roberts (DWR 1320). Isolated from soil sample SS 11335. May 2009. USA: Garza County, Texas. N 33.21871, W 101.14133.
- 11128 DW Roberts (DWR 1321). Isolated from soil sample SS 11346. 20 May 2009. USA: Dickens County, Texas. N 33.3986, W 100.91322.
- 11129 DW Roberts (DWR 1322). Isolated from soil sample SS 11391. 29 May 2009. USA: Knox County, Texas. N 33.53485, W 99.89711.
- 11130 DW Roberts (DWR 1323). Isolated from soil sample SS 11407. 4 Jun 2009. USA: Shackelford County, Texas. N 32.90495, W 99.23851.
- 11131 DW Roberts (DWR 1328). Isolated from soil sample SS 9437. 27 Jun 2008. USA: Pueblo County, Colorado. N 38.02472, W 104.85368.
- 11132 DW Roberts (DWR 1329). Isolated from soil sample SS 9366. 2 Jul 2008. USA: Montrose County, Colorado. N 38.60498, W 107.83564.
- 11133 DW Roberts (DWR 1330). Isolated from soil sample SS 9621. 24 Jun 2008. USA: Montrose County, Colorado. N 38.26683, W 108.28009.
- 11134 DW Roberts (DWR 1331). Isolated from soil sample SS 9296. 3 Jul 2008. USA: Jackson County, Colorado. N 40.57033, W 106.28183.
- 11135 DW Roberts (DWR 1332). Isolated from soil sample SS 9387. 4 Aug 2008. USA: Jackson County, Colorado. N 40.791495, W 106.28171.
- 11136 DW Roberts (DWR 1333). Isolated from soil sample SS 9482. 2 Jul 2008. USA: La Plata County, Colorado. N 37.24936, W 107.76679.
- 11137 DW Roberts (DWR 1334). Isolated from soil sample SS 9514. 11 Jul 2008. USA: Montezuma County, Colorado. N 37.617253, W 108.40162.
- 11138 DW Roberts (DWR 1335). Isolated from soil sample SS 9618. 19 Jun 2008. USA: San Miguel County, Colorado. N 38.01796, W 108.33174.
- 11139 DW Roberts (DWR 1336). Isolated from soil sample SS 9620. 24 Jun 2008. USA: Montrose County, Colorado. N 38.304, W 108.20071.
- 11140 DW Roberts (DWR 1339). Isolated from soil sample SS 11385. 27 May 2009. USA: Foard County, Texas. N 33.99416, W 99.83844.
- 11141 DW Roberts (DWR 1340). Isolated from soil sample SS 11411. 27 May 2009. USA: Castro County, Texas. N 34.60214, W 102.32558.
- 11142 DW Roberts (DWR 1341). Isolated from soil sample SS 11416. 26 May 2009. USA: Parmer County, Texas. N 34.64846, W 102.60154.
- 11143 DW Roberts (DWR 1342). Isolated from soil sample SS 11441. 28 May 2009. USA: Scurry County, Texas. N 32.71884, W 100.75037.
- 11144 DW Roberts (DWR 1343). Isolated from soil sample SS 11431. 4 Jun 2009. USA: Nolan County, Texas. N 32.37899, W 100.1753.
- 11145 DW Roberts (DWR 1348). Isolated from soil sample SS 9626. 26 Jun 2008. USA: Montezuma County, Colorado. N 37.55948, W 108.03811.
- 11146 DW Roberts (DWR 1349). Isolated from soil sample SS 9695. 22 Jul 2008. USA: Jackson County, Colorado. N 40.94356, W 106.34774.
- 11147 DW Roberts (DWR 1350). Isolated from soil sample SS 1150. 28 Sep 2007. USA: Gila County, Arizona. N 33.0587, W 110.72032.
- 11148 DW Roberts (DWR 1351). Isolated from soil sample SS 9690. 22 Jul 2008. USA: Jackson County, Colorado. N 40.87187, W 106.29078.
- 11149 DW Roberts (DWR 1352). Isolated from soil sample SS 11674. 20 May 2009. USA: Elko County, Nevada. N 41.469018, W 116.03595.
- 11150 DW Roberts (DWR 1354). Isolated from soil sample SS 9694. 22 Jul 2008. USA: Jackson County, Colorado. N 40.99107, W 106.21288.
- 11151 DW Roberts (DWR 1357). Isolated from soil sample SS 11698, colony 1. 27 Apr 2009. USA: Eureka County, Nevada. N 39.841835, W 116.19395.
- 11152 DW Roberts (DWR 1358). Isolated from soil sample SS 11698, colony 2. 27 Apr 2009. USA: Eureka County, Nevada. N 39.841835, W 116.19395.
- 11153 DW Roberts (DWR 1359). Isolated from soil sample SS 11833. 18 Mar 2009. USA: Pershing County, Nevada. N 40.66637, W 118.07279.
- 11154 DW Roberts (DWR 1363). Isolated from soil sample SS 8390. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.996666, W 102.66832.
- 11155 DW Roberts (DWR 1364). Isolated from soil sample SS 8408. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.765838, W 102.59197.

- 11156 DW Roberts (DWR 1365). Isolated from soil sample SS 8327. 2 Jul 2008. USA: Kiowa County, Colorado. N 38.397335, W 102.3079.
- 11157 DW Roberts (DWR 1366). Isolated from soil sample SS 8320. 1 Jul 2008. USA: Yuma County, Colorado. N 39.643193, W 102.43928.
- 11158 DW Roberts (DWR 1367). Isolated from soil sample SS 8408. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.765838, W 102.59197.
- 11159 DW Roberts (DWR 1368). Isolated from soil sample SS 8395. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.813191, W 102.57437.
- 11160 DW Roberts (DWR 1369). Isolated from soil sample SS 8403. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.898251, W 102.38876.
- 11161 DW Roberts (DWR 1370). Isolated from soil sample SS 8390. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.996666, W 102.66832.
- 11162 DW Roberts (DWR 1371). Isolated from soil sample SS 8317. 1 Jul 2008. USA: Yuma County, Colorado. N 39.70292, W 102.24919.
- 11163 DW Roberts (DWR 1372). Isolated from soil sample SS 8326. 2 Jul 2008. USA: Kiowa County, Colorado. N 38.462816, W 102.32058.
- 11164 DW Roberts (DWR 1373). Isolated from soil sample SS 8458. 13 Jul 2008. USA: Bent County, Colorado. N 38.085038, W 103.22506.
- 11165 DW Roberts (DWR 1400). Isolated from soil sample SS 8590. 29 Jun 2008. USA: Cheyenne County, Colorado. N 38.740283, W 102.089948.
- 11166 DW Roberts (DWR 1401). Isolated from soil sample SS 8592. 30 Jun 2008. USA: Cheyenne County, Colorado. N 39.01625, W 102.279193.
- 11167 DW Roberts (DWR 1402). Isolated from soil sample SS 11488. 12 May 2009. USA: Duchesne County, Utah. N 40.1531, W 110.0112.
- 11168 DW Roberts (DWR 1403). Isolated from soil sample SS 8314. 1 Jul 2008. USA: Yuma County, Colorado. N 39.926986, W 102.241988.
- 11169 DW Roberts (DWR 1404). Isolated from soil sample SS 8374. 3 Jun 2008. USA: Baca County, Colorado. N 37.018191, W 102.436013.
- 11170 DW Roberts (DWR 1405). Isolated from soil sample SS 8391. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.939455, W 102.649135.
- 11171 DW Roberts (DWR 1406). Isolated from soil sample SS 8407. 18 Jun 2008. USA: Cheyenne County, Colorado. N 38.86137, W 102.537515.
- 11172 DW Roberts (DWR 1423). Isolated from soil sample SS 11988. 9 Jun 2009. USA: Piute County, Utah. N 38.4438, W 112.1308.
- 11173 DW Roberts (DWR 1424). Isolated from soil sample SS 8779. 10 Jul 2008. USA: Costilla County, Colorado. N 37.610478, W 105.225911.
- 11174 DW Roberts (DWR 1425). Isolated from soil sample SS 9955. 26 Aug 2008. USA: Finney County, Kansas. N 38.05913, W 100.40411.
- 11175 DW Roberts (DWR 1426). Isolated from soil sample SS 8535. 7 Jul 2008. USA: Kiowa County, Colorado. N 38.492468, W 102.216798.
- 11176 DW Roberts (DWR 1427). Isolated from soil sample SS 8418. 3 Jun 2008. USA: Baca County, Colorado. N 37.418545, W 102.765126.
- 11177 DW Roberts (DWR 1428). Isolated from soil sample SS 10326. 29 Jul 2008. USA: Kearny County, Kansas. N 37.953923, W 101.1569383.
- 11178 DW Roberts (DWR 1429). Isolated from soil sample SS 8644. 2 Jul 2008. USA: Las Animas County, Colorado. N 37.016103, W 103.82723.
- 11179 DW Roberts (DWR 1430). Isolated from soil sample SS 8553. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.39707, W 102.96961.
- 11180 DW Roberts (DWR 1431). Isolated from soil sample SS 8562. 19 Jun 2008. USA: Cheyenne County, Colorado. N 38.952781, W 102.796461.
- 11181 DW Roberts (DWR 1432). Isolated from soil sample SS 8575. 29 Jun 2008. USA: Kiowa County, Colorado. N 38.397423, W 102.436726.
- 11182 DW Roberts (DWR 1433). Isolated from soil sample SS 8478. 12 Jul 2008. USA: Kiowa County, Colorado. N 38.384478, W 102.913818.
- 11183 DW Roberts (DWR 1434). Isolated from soil sample SS 8552. 17 Jun 2008. USA: Kiowa County, Colorado. N 38.367725, W 102.987363.
- 11184 DW Roberts (DWR 1435). Isolated from soil sample SS 8673. 4 Jun 2008. USA: Baca County, Colorado. N 37.557156, W 102.631976.
- 11185 DW Roberts (DWR 1436). Isolated from soil sample SS 8698. 24 Jun 2008. USA: Las Animas County, Colorado. N 37.386477, W 104.238425.
- 11187 DW Roberts (DWR 1438). Isolated from soil sample SS 9825. 10 Oct 2008. USA: Box Elder County, Utah. N 41.55428, W 113.26896.
- 11188 DW Roberts (DWR 1439). Isolated from soil sample SS 9895. 14 Oct 2008. USA: Holt County, Nebraska.
- 11189 DW Roberts (DWR 1440). Isolated from soil sample SS 10054. 7 Aug 2008. USA: Phillips County, Kansas. N 39.988225, W 99.089653.
- 11190 DW Roberts (DWR 1441). Isolated from soil sample SS 10136. 4 Aug 2008. USA: Decatur County, Kansas. N 39.770165, W 100.5156816.
- 11191 DW Roberts (DWR 1442). Isolated from soil sample SS 10139. 4 Aug 2008. USA: Decatur County, Kansas. N 39.632922, W 100.72246.
- 11192 DW Roberts (DWR 1443). Isolated from soil sample SS 10188. 22 Jul 2008. USA: Barber County, Kansas. N 37.145378, W 98.67418.
- 11193 DW Roberts (DWR 1444). Isolated from soil sample SS 10387. 4 Aug 2008. USA: Rawlins County, Kansas. N 39.872905, W 101.149005.

- 11194 DW Roberts (DWR 1445). Isolated from soil sample SS 10788. 5 Aug 2008. USA: Elko County, Nevada. N 41.124728, W 114.125097.
- 11195 DW Roberts (DWR 1455). Isolated from soil sample SS 10514. 12 Aug 2008. USA: Lander County, Nevada. N 39.895445, W 117.111895.
- 11196 DW Roberts (DWR 1456). Isolated from soil sample SS 10553. 20 Aug 2008. USA: Nye County, Nevada. N 38.627545, W 117.770778.
- 11197 DW Roberts (DWR 1457). Isolated from soil sample SS 10332. 31 Jul 2008. USA: Hodgeman County, Kansas. N 38.247363, W 99.82819833.
- 11198 DW Roberts (DWR 1458). Isolated from soil sample SS 10334. 4 Aug 2008. USA: Clark County, Kansas. N 37.159618, W 99.64737.
- 11199 DW Roberts (DWR 1459). Isolated from soil sample SS 12080. 17 Jun 2009. USA: Callahan County, Texas. N 32.50322, W 99.54539.
- 11200 DW Roberts (DWR 1460). Isolated from soil sample SS 12082. 18 Jun 2009. USA: Runnels County, Texas. N 31.84836, W 100.02679.
- 11201 DW Roberts (DWR 1461). Isolated from soil sample SS 12070. 10 Jun 2009. USA: Collingsworth County, Texas. N 35.10693, W 100.52151.
- 11202 DW Roberts (DWR 1462). Isolated from soil sample SS 12066. 9 Jun 2009. USA: Wheeler County, Texas. N 35.39819, W 100.37889.
- 11203 DW Roberts (DWR 1463). Isolated from soil sample SS 12065. 9 Jun 2009. USA: Wheeler County, Texas. N 35.49702, W 100.12129.
- 11204 DW Roberts (DWR 1464). Isolated from soil sample SS 12077. 17 Jun 2009. USA: Callahan County, Texas. N 32.41948, W 99.158.
- 11205 DW Roberts (DWR 1465). Isolated from soil sample SS 12072. 10 Jun 2009. USA: Collingsworth County, Texas. N 34.88573, W 100.06611.
- 11206 DW Roberts (DWR 1466). Isolated from soil sample SS 12042. 11 Jun 2009. USA: Kane County, Utah. N 37.3723, W 111.3639.
- 11207 DW Roberts (DWR 1467). Isolated from soil sample SS 12068. 9 Jun 2009. USA: Wheeler County, Texas. N 35.32803, W 100.18532.
- 11208 DW Roberts (DWR 1476). Isolated from soil sample SS 10796. 5 Aug 2008. USA: Elko County, Nevada. N 41.170338, W 114.885062.
- 11209 DW Roberts (DWR 1477). Isolated from soil sample SS 10764. 22 Jul 2008. USA: Esmeralda County, Nevada. N 37.436782, W 117.551692.
- 11210 DW Roberts (DWR 1478). Isolated from soil sample SS 11918. 18 Mar 2009. USA: Humboldt County, Nevada. N 41.007055, W 117.735212.
- 11211 DW Roberts (DWR 1479). Isolated from soil sample SS 11775. 6 Apr 2009. USA: Elko County, Nevada. N 41.277092, W 116.11203.
- 11212 DW Roberts (DWR 1480). Isolated from soil sample SS 12114. Jun 2009. USA: Randall County, Texas. N 34.80714, W 101.70441.
- 11213 DW Roberts (DWR 1481). Isolated from soil sample SS 12115. Jun 2009. USA: Potter County, Texas. N 35.57323, W 101.95019.
- 11214 DW Roberts (DWR 1482). Isolated from soil sample SS 12119. 16 Jun 2009. USA: Crockett County, Texas. N 31.01011, W 101.16763.
- 11215 DW Roberts (DWR 1483). Isolated from soil sample SS 12122. 16 Jun 2009. USA: Crockett County, Texas. N 30.94472, W 101.46172.
- 11216 DW Roberts (DWR 1484). Isolated from soil sample SS 12351. 29 Jun 2009. USA: San Juan County, Utah. N 37.5031, W 110.4027.
- 11217 DW Roberts (DWR 1485). Isolated from soil sample SS 12558. 17 Jul 2009. USA: Cochise County, Arizona. N 31.75044, W 109.35887.
- 11218 DW Roberts (DWR 1486). Isolated from soil sample SS 13817. 10 Jun 2009. USA: Logan County, Colorado. N 40.847525, W 103.407428.
- 11219 DW Roberts (DWR 1487). Isolated from soil sample SS 13818. 10 Jun 2009. USA: Logan County, Colorado. N 40.702351, W 103.306841.
- 11220 DW Roberts (DWR 1488). Isolated from soil sample SS 13821. 10 Jun 2009. USA: Logan County, Colorado. N 40.793011, W 103.516806.
- 11221 DW Roberts (DWR 1492). Isolated from soil sample SS 12131. 16 Jun 2009. USA: Moore County, Texas. N 35.69076, W 102.05242.
- 11222 DW Roberts (DWR 1493). Isolated from soil sample SS 12822. 17 Jul 2009. USA: Gila County, Arizona. N 33.576428, W 110.163593.
- 11223 DW Roberts (DWR 1494). Isolated from soil sample SS 12051. 11 Jun 2009. USA: Kane County, Utah. N 37.3339, W 111.3756.
- 11224 DW Roberts (DWR 1495). Isolated from soil sample SS 12063. 8 Jun 2009. USA: Childress County, Texas. N 34.41707, W 100.22907.
- 11225 DW Roberts (DWR 1496). Isolated from soil sample SS 12685. Jul 2009. USA: Iron County, Utah. N 38.0833, W 113.5801.
- 11226 DW Roberts (DWR 1497). Isolated from soil sample SS 12939. 20 Jul 2009. USA: Millard County, Utah. N 39.3211, W 112.1624.
- 11227 DW Roberts (DWR 1498). Isolated from soil sample SS 12183. 26 May 2009. USA: Elko County, Nevada. N 41.118503, W 115.861508.
- 11228 DW Roberts (DWR 1499). Isolated from soil sample SS 12203. 16 Jun 2009. USA: Elko County, Nevada. N 41.827582, W 115.997127.
- 11229 DW Roberts (DWR 1500). Isolated from soil sample SS 12211. 17 Jun 2009. USA: Elko County, Nevada. N 41.91063, W 115.44952.

- 11230 DW Roberts (DWR 1501). Isolated from soil sample SS 12450. 7 Jul 2009. USA: San Juan County, Utah. N 38.0215, W 109.2458.
- 11231 DW Roberts (DWR 1502). Isolated from soil sample SS 12873. 7 Jul 2009. USA: Mohave County, Arizona. N 36.289238, W 113.064198.
- 11232 DW Roberts (DWR 1503). Isolated from soil sample SS 12877. 7 Jul 2009. USA: Mohave County, Arizona. N 36.752473, W 113.549073.
- 11233 DW Roberts (DWR 1504). Isolated from soil sample SS 12889. 17 Jul 2009. USA: Graham County, Arizona. N 33.453457, W 109.871571.
- 11234 DW Roberts (DWR 1505). Isolated from soil sample SS 12901. 8 Jul 2009. USA: Graham County, Arizona. N 33.423351, W 109.750172.
- 11235 DW Roberts (DWR 1508). Isolated from soil sample SS 12311. 18 Jun 2009. USA: Beaver County, Utah. N 38.5548, W 114.0456.
- 11236 DW Roberts (DWR 1509). Isolated from soil sample SS 12526. 9 Jul 2009. USA: San Juan County, Utah. N 37.5211, W 109.14590000.
- 11237 DW Roberts (DWR 1510). Isolated from soil sample SS 12579. 1 Jul 2009. USA: Martin County, Texas. N 32.22354, W 102.08802.
- 11238 DW Roberts (DWR 1511). Isolated from soil sample SS 12850. 17 Jul 2009. USA: Graham County, Arizona. N 33.434782, W 109.827193.
- 11239 DW Roberts (DWR 1512). Isolated from soil sample SS 12886. 17 Jul 2009. USA: Graham County, Arizona. N 33.290792, W 109.908619.
- 11240 DW Roberts (DWR 1513). Isolated from soil sample SS 13792. 9 Jun 2009. USA: Weld County, Colorado. N 40.716201, W 103.859375.
- 11241 DW Roberts (DWR 1514). Isolated from soil sample SS 12925. Jul 2009. USA: Mohave County, Arizona. N 36.694467, W 113.770869.
- 11242 DW Roberts (DWR 1515). Isolated from soil sample SS 13681. 29 Jul 2009. USA: Kane County, Utah. N 37.1728, W 112.265.
- 11243 DW Roberts (DWR 1521). Isolated from soil sample SS 13919. 12 Jun 2009. USA: Logan County, Colorado. N 40.677815, W 103.107483.
- 11244 DW Roberts (DWR 1522). Isolated from soil sample SS 13950. 4 Jun 2009. USA: Morgan County, Colorado. N 40.07486, W 103.514446.
- 11245 DW Roberts (DWR 1523). Isolated from soil sample SS 13131. 22 Jun 2009. USA: Weld County, Colorado. N 40.710246, W 104.905976.
- 11246 DW Roberts (DWR 1524). Isolated from soil sample SS 13519. 14 Jul 2009. USA: Power County, Idaho. N 42.613883, W 113.14522.
- 11247 DW Roberts (DWR 1525). Isolated from soil sample SS 13548. 16 Jul 2009. USA: Clark County, Idaho. N 44.298582, W 112.43086.
- 11248 DW Roberts (DWR 1526). Isolated from soil sample SS 13594. 23 Jul 2009. USA: Teton County, Idaho. N 43.897682, W 111.538743.
- 11249 DW Roberts (DWR 1529). Isolated from soil sample SS 13609. 24 Jul 2009. USA: Cassia County, Idaho. N 42.27894, W 113.8089.
- 11250 DW Roberts (DWR 1530). Isolated from soil sample SS 13634. 30 Jul 2009. USA: Jefferson County, Idaho. N 43.957491, W 112.682685.
- 11251 DW Roberts (DWR 1531). Isolated from soil sample SS 13746. 27 May 2009. USA: Washington County, Colorado. N 39.710556, W 103.318616.
- 11252 DW Roberts (DWR 1532). Isolated from soil sample SS 13763. 28 May 2009. USA: Washington County, Colorado. N 39.711976, W 103.12271.
- 11253 DW Roberts (DWR 1533). Isolated from soil sample SS 13964. 16 Jun 2009. USA: Logan County, Colorado. N 40.838093, W 102.86977.
- 11254 DW Roberts (DWR 1534). Isolated from soil sample SS 13985. 19 May 2009. USA: Washington County, Colorado. N 39.566743, W 103.65051.
- 11255 DW Roberts (DWR 1535). Isolated from soil sample SS 12799. 14 Jul 2009. USA: Mohave County, Arizona. N 36.284037, W 113.06888.
- 11256 DW Roberts (DWR 1536). Isolated from soil sample SS 13047. 19 Jul 2009. USA: Rich County, Utah. N 41.4205, W 111.1522.
- 11257 DW Roberts (DWR 1537). Isolated from soil sample SS 13099. 29 Jul 2009. USA: Grand County, Utah. N 39.2506, W 109.0925.
- 11258 DW Roberts (DWR 1538). Isolated from soil sample SS 14374. 4 Aug 2009. USA: Elko County, Nevada. N 41.856683, W 115.41202.
- 11259 DW Roberts (DWR 1539). Isolated from soil sample SS 13174. 22 Jun 2009. USA: Arapahoe County, Colorado. N 39.653608, W 104.15375.
- 11260 DW Roberts (DWR 1549). Isolated from soil sample SS 15014. 23 Jun 2009. USA: Bent County, Colorado. N 37.997661, W 102.77725.
- 11261 DW Roberts (DWR 1550). Isolated from soil sample SS 13988. 19 May 2009. USA: Washington County, Colorado. N 39.56656, W 103.31837.
- 11262 DW Roberts (DWR 1551). Isolated from soil sample SS 13997. 27 May 2009. USA: Yuma County, Colorado. N 39.85882, W 102.6334.
- 11263 DW Roberts (DWR 1552). Isolated from soil sample SS 14568. 21 Jun 2009. USA: La Plata County, Colorado. N 37.169325, W 107.66886.
- 11264 DW Roberts (DWR 1558). Isolated from soil sample SS 16144. 6 Aug 2009. USA: Judith Basin County, Montana. N 47.21421, W 110.03356.
- 11265 DW Roberts (DWR 1559). Isolated from soil sample SS 16145. 6 Aug 2009. USA: Judith Basin County, Montana. N 47.08446, W 109.8465.

- 11266 DW Roberts (DWR 1560). Isolated from soil sample SS 16164. 14 Jul 2009. USA: Dawson County, Montana. N 47.625151, W 105.00048.
- 11267 DW Roberts (DWR 1561). Isolated from soil sample SS 16051. 4 Aug 2009. USA: Blaine County, Montana. N 48.749288, W 108.49255.
- 11268 DW Roberts (DWR 1562). Isolated from soil sample SS 14775. 14 Jul 2009. USA: Moffat County, Colorado. N 40.979623, W 107.7204.
- 11269 DW Roberts (DWR 1563). Isolated from soil sample SS 12625. 22 Jun 2009. USA: Hartley County, Texas. N 35.71809, W 102.83618.
- 11270 DW Roberts (DWR 1564). Isolated from soil sample SS 16210. 14 Jul 2009. USA: Cascade County, Montana. N 47.322761, W 110.97031.
- 11271 DW Roberts (DWR 1565). Isolated from soil sample SS 16055. 3 Aug 2009. USA: Blaine County, Montana. N 48.025496, W 108.48635.
- 11272 DW Roberts (DWR 1566). Isolated from soil sample SS 16312. 12 Aug 2009. USA: Granite County, Montana. N 46.55597, W 113.29118.
- 11273 DW Roberts (DWR 1567). Isolated from soil sample SS 16220. 20 Jul 2009. USA: Madison County, Montana. N 45.237677, W 111.80864.
- 11274 DW Roberts (DWR 1568). Isolated from soil sample SS 16228. 22 Jul 2009. USA: Madison County, Montana. N 45.611196, W 112.50506.
- 11275 DW Roberts (DWR 1569). Isolated from soil sample SS 16318. 5 Aug 2009. USA: Powell County, Montana. N 46.28027, W 112.86974.
- 11276 DW Roberts (DWR 1570). Isolated from soil sample SS 16035. Jul 2009. USA: Big Horn County, Montana. N 45.528286, W 107.24025.
- 11277 DW Roberts (DWR 1571). Isolated from soil sample SS 16031. 13 Aug 2009. USA: Big Horn County, Montana. N 45.36713, W 107.65037.
- 11278 DW Roberts (DWR 1572). Isolated from soil sample SS 14020. Jun 2009. USA: Adams County, Colorado. N 39.898498, W 104.00014.
- 11279 DW Roberts (DWR 1573). Isolated from soil sample SS 14852. 5 Jun 2009. USA: Montezuma County, Colorado. N 37.322558, W 108.33483.
- 11280 DW Roberts (DWR 1574). Isolated from soil sample SS 12628. 22 Jun 2009. USA: Dallam County, Texas. N 36.45094, W 102.24559.
- 11281 DW Roberts (DWR 1575). Isolated from soil sample SS 12622. 26 Jun 2009. USA: Upton County, Texas. N 31.34226, W 101.82915.
- 11282 DW Roberts (DWR 1576). Isolated from soil sample SS 14008. 8 Jun 2009. USA: El Paso County, Colorado. N 38.594071, W 104.27408.
- 11283 DW Roberts (DWR 1577). Isolated from soil sample SS 14033. 22 Jun 2009. USA: Elbert County, Colorado. N 39.498288, W 104.2075.
- 11284 DW Roberts (DWR 1578). Isolated from soil sample SS 14753. 3 Jul 2009. USA: Montezuma County, Colorado. N 37.500765, W 108.79988.
- 11285 DW Roberts (DWR 1579). Isolated from soil sample SS 15060. 13 Jul 2009. USA: Rio Blanco County, Colorado. N 40.074821, W 107.3481.
- 11286 DW Roberts (DWR 1585). Isolated from soil sample SS 15015. 23 Jun 2009. USA: Baca County, Colorado. N 37.167548, W 102.43437.
- 11287 DW Roberts (DWR 1586). Isolated from soil sample SS 14761. 24 Jun 2009. USA: Rio Grande County, Colorado. N 37.54099, W 106.50782.
- 11288 DW Roberts (DWR 1587). Isolated from soil sample SS 12596. 25 Jun 2009. USA: Lipscomb County, Texas. N 36.0721, W 100.14867.
- 11289 DW Roberts (DWR 1588). Isolated from soil sample SS 12784. 28 Jun 2009. USA: Gilliam County, Oregon. N 45.81809, W 120.20735.
- 11290 DW Roberts (DWR 1589). Isolated from soil sample SS 12772. 23 Jun 2009. USA: Okanogan County, Washington. N 48.159, W 119.48957.
- 11291 DW Roberts (DWR 1590). Isolated from soil sample SS 12613. 22 Jun 2009. USA: Ward County, Texas. N 31.42937, W 103.0915.
- 11292 DW Roberts (DWR 1593). Isolated from soil sample SS 15298. 29 Jun 2009. USA: Buffalo County, South Dakota. N 44.1262, W 99.1267.
- 11293 DW Roberts (DWR 1594). Isolated from soil sample SS 15306. 18 Jun 2009. USA: Mellette County, South Dakota. N 43.7349, W 101.203.
- 11294 DW Roberts (DWR 1595). Isolated from soil sample SS 15266. 30 Jun 2009. USA: Ziebach County, South Dakota. N 45.029133, W 101.906793.
- 11295 DW Roberts (DWR 1596). Isolated from soil sample SS 16193. 14 Jul 2009. USA: Dawson County, Montana. N 47.297063, W 104.85078.
- 11296 DW Roberts (DWR 1597). Isolated from soil sample SS 15289. 16 Jun 2009. USA: Shannon County, South Dakota. N 43.1291, W 102.666.
- 11297 DW Roberts (DWR 1598). Isolated from soil sample SS 15313. 30 Jun 2009. USA: Dewey County, South Dakota. N 45.14019, W 100.692235.
- 11298 DW Roberts (DWR 1599). Isolated from soil sample SS 15260. 22 Jun 2009. USA: Custer County, South Dakota. N 43.4918, W 103.2528.
- 11299 DW Roberts (DWR 1600). Isolated from soil sample SS 16140. 3 Aug 2009. USA: Deer Lodge County, Montana. N 46.09601, W 112.82514.
- 11300 DW Roberts (DWR 1603). Isolated from soil sample SS 16281. 21 Jul 2009. USA: Carbon County, Montana. N 45.240483, W 108.671158.
- 11301 DW Roberts (DWR 1604). Isolated from soil sample SS 16134. 3 Aug 2009. USA: Phillips County, Montana. N 47.722983, W 108.66611.

- 11302 DW Roberts (DWR 1605). Isolated from soil sample SS 16194. 3 Aug 2009. USA: Blaine County, Montana. N 47.92736, W 108.72457.
- 11303 DW Roberts (DWR 1606). Isolated from soil sample SS 16266. 12 Aug 2009. USA: Toole County, Montana. N 48.319072, W 111.574653.
- 11304 DW Roberts (DWR 1607). Isolated from soil sample SS 17201. 4 Aug 2009. USA: Campbell County, Wyoming. N 44.36519, W 105.221293.
- 11305 DW Roberts (DWR 1608). Isolated from soil sample SS 17246. 13 Aug 2009. USA: Laramie County, Wyoming. N 41.345853, W 104.2145.
- 11306 DW Roberts (DWR 1609). Isolated from soil sample SS 17231. 28 Jul 2009. USA: Niobrara County, Wyoming. N 42.830322, W 104.481687.
- 11308 DW Roberts (DWR 1617). Isolated from soil sample SS 16023. 16 Jul 2009. USA: Big Horn County, Montana. N 45.809013, W 107.23184.
- 11309 DW Roberts (DWR 1618). Isolated from soil sample SS 16224. 21 Jul 2009. USA: Madison County, Montana. N 45.305033, W 112.07917.
- 11310 DW Roberts (DWR 1619). Isolated from soil sample SS 16245. 10 Aug 2009. USA: Toole County, Montana. N 48.4384, W 111.88335.
- 11311 DW Roberts (DWR 1620). Isolated from soil sample SS 16382. 13 Jul 2009. USA: Walla Walla County, Washington. N 46.35369, W 118.47751.
- 11312 DW Roberts (DWR 1621). Isolated from soil sample SS 14807. 21 May 2009. USA: San Miguel County, Colorado. N 38.010661, W 108.55278.
- 11313 DW Roberts (DWR 1622). Isolated from soil sample SS 15769. 16 Jun 2009. USA: Lyman County, South Dakota. N 43.9051, W 99.4774.
- 11314 DW Roberts (DWR 1623). Isolated from soil sample SS 16218. 20 Jul 2009. USA: Madison County, Montana. N 44.756398, W 111.46711.
- 11315 DW Roberts (DWR 1624). Isolated from soil sample SS 16398. 21 Jul 2009. USA: Klickitat County, Washington. N 45.82482, W 120.93659.
- 11316 DW Roberts (DWR 1625). Isolated from soil sample SS 17346. 26 Aug 2009. USA: Lander County, Nevada. N 40.185052, W 116.827103.
- 11317 DW Roberts (DWR 1626). Isolated from soil sample SS 15418. 30 Jun 2009. USA: Corson County, South Dakota. N 45.7605, W 100.86565.
- 11318 DW Roberts (DWR 1627). Isolated from soil sample SS 16372. 11 Aug 2009. USA: Okanogan County, Washington. N 48.22432, W 118.86334.
- 11319 DW Roberts (DWR 1628). Isolated from soil sample SS 17087. 10 Aug 2009. USA: Sheridan County, Wyoming. N 44.88868, W 107.540826.
- 11320 DW Roberts (DWR 1629). Isolated from soil sample SS 17088. 10 Aug 2009. USA: Johnson County, Wyoming. N 44.225669, W 106.990484.
- 11321 DW Roberts (DWR 1630). Isolated from soil sample SS 17024. 24 Aug 2009. USA: Jeff Davis County, Texas. N 30.97822, W 104.18124.
- 11322 DW Roberts (DWR 1631). Isolated from soil sample SS 17006. 30 Jun 2009. USA: Dawson County, Texas. N 32.87805, W 102.09524.
- 11323 DW Roberts (DWR 1632). Isolated from soil sample SS 17128. 20 Jul 2009. USA: Goshen County, Wyoming. N 41.784354, W 104.363303.
- 11324 DW Roberts (DWR 1633). Isolated from soil sample SS 17195. 3 Aug 2009. USA: Campbell County, Wyoming. N 44.0042, W 105.723083.
- 11325 DW Roberts (DWR 1634). Isolated from soil sample SS 17203. 6 Jul 2009. USA: Sheridan County, Wyoming. N 44.87741, W 106.257448.
- 11326 DW Roberts (DWR 1635). Isolated from soil sample SS 17628. 3 Jul 2009. USA: Cheyenne County, Colorado. N 38.988258, W 102.08999.
- 11327 DW Roberts (DWR 1636). Isolated from soil sample SS 14476. 8 Jul 2009. USA: Elko County, Nevada. N 41.892515, W 115.42958.
- 11328 DW Roberts (DWR 1637). Isolated from soil sample SS 15327. 29 Jun 2009. USA: Corson County, South Dakota. N 45.5221, W 100.5664.
- 11329 DW Roberts (DWR 1638). Isolated from soil sample SS 14480. 21 Jul 2009. USA: Elko County, Nevada. N 41.223465, W 116.0069.
- 11330 DW Roberts (DWR 1639). Isolated from soil sample SS 13896. 23 Jun 2009. USA: Elbert County, Colorado. N 39.491485, W 104.36741.
- 11331 DW Roberts (DWR 1640). Isolated from soil sample SS 14485. 22 Jul 2009. USA: Elko County, Nevada. N 40.626338, W 115.26707.
- 11332 DW Roberts (DWR 1641). Isolated from soil sample SS 17332. 18 Aug 2009. USA: Elko County, Nevada. N 41.537978, W 116.03364.
- 11333 DW Roberts (DWR 1642). Isolated from soil sample SS 17324. 11 Aug 2009. USA: Elko County, Nevada. N 41.887033, W 115.439387.
- 11334 DW Roberts (DWR 1643). Isolated from soil sample SS 14171. 14 Jul 2009. USA: Elko County, Nevada. N 41.1463, W 115.676663.
- 11335 DW Roberts (DWR 1644). Isolated from soil sample SS 15703. 1 Jun 2009. USA: Fall River County, South Dakota. N 43.2462, W 103.7994.
- 11336 DW Roberts (DWR 1645). Isolated from soil sample SS 15299. 29 Jun 2009. USA: Buffalo County, South Dakota. N 44.0964, W 99.2066.
- 11337 DW Roberts (DWR 1646). Isolated from soil sample SS 14472. 29 Jun 2009. USA: Washoe County, Nevada. N 40.200922, W 119.36967.
- 11338 DW Roberts (DWR 1647). Isolated from soil sample SS 15318. 1 Jul 2009. USA: Dewey County, South Dakota. N 45.422075, W 101.018412.

- 11339 DW Roberts (DWR 1648). Isolated from soil sample SS 15321. 1 Jul 2009. USA: Dewey County, South Dakota. N 45.438247, W 100.710113.
- 11340 DW Roberts (DWR 1649). Isolated from soil sample SS 15304. 18 Jun 2009. USA: Mellette County, South Dakota. N 43.664, W 101.0202.
- 11341 DW Roberts (DWR 1650). Isolated from soil sample SS 15464. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0054, W 98.9617.
- 11342 DW Roberts (DWR 1651). Isolated from soil sample SS 15462. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0389, W 99.076.
- 11343 DW Roberts (DWR 1661). Isolated from soil sample SS 14185. Jul 2009. USA: Elko County, Nevada. N 41.9088, W 116.060338.
- 11344 DW Roberts (DWR 1662). Isolated from soil sample SS 17535. 21 Jun 2009. USA: Baca County, Colorado. N 37.324903, W 102.44745 .
- 11345 DW Roberts (DWR 1663). Isolated from soil sample SS 14155. 5 Jun 2009. USA: El Paso County, Colorado. N 38.84639, W 104.0922.
- 11346 DW Roberts (DWR 1664). Isolated from soil sample SS 14159. 8 Jun 2009. USA: Idaho.
- 11347 DW Roberts (DWR 1665). Isolated from soil sample SS 14378. 26 May 2009. USA: Elko County, Nevada. N 41.177285, W 115.89577.
- 11348 DW Roberts (DWR 1666). Isolated from soil sample SS 14386. 28 May 2009. USA: Elko County, Nevada. N 41.855373, W 115.43918.
- 11349 DW Roberts (DWR 1667). Isolated from soil sample SS 14405. 8 Jul 2009. USA: Elko County, Nevada. N 41.843297, W 115.42236.
- 11350 DW Roberts (DWR 1668). Isolated from soil sample SS 14413. 8 Jul 2009. USA: Elko County, Nevada. N 41.83063, W 115.4229.
- 11351 DW Roberts (DWR 1669). Isolated from soil sample SS 14415. 9 Jul 2009. USA: Elko County, Nevada. N 41.258603, W 116.24275.
- 11352 DW Roberts (DWR 1670). Isolated from soil sample SS 14634. 18 Jun 2009. USA: San Juan County, Colorado. N 37.864293, W 107.72546.
- 11353 DW Roberts (DWR 1671). Isolated from soil sample SS 14638. 16 Jun 2009. USA: Delta County, Colorado. N 38.810863, W 108.0137.
- 11354 DW Roberts (DWR 1672). Isolated from soil sample SS 14644. 23 Jun 2009. USA: Montrose County, Colorado. N 38.461606, W 108.40994.
- 11355 DW Roberts (DWR 1673). Isolated from soil sample SS 14661. 2 Jul 2009. USA: Dolores County, Colorado. N 37.704541, W 108.00147.
- 11356 DW Roberts (DWR 1674). Isolated from soil sample SS 17176. 5 Aug 2009. USA: Campbell County, Wyoming. N 43.899137, W 105.254149.
- 11357 DW Roberts (DWR 1675). Isolated from soil sample SS 17184. 12 Aug 2009. USA: Sheridan County, Wyoming. N 44.908075, W 107.740069.
- 11358 DW Roberts (DWR 1676). Isolated from soil sample SS 17186. 13 Aug 2009. USA: Laramie County, Wyoming. N 41.023273, W 105.239257.
- 11359 DW Roberts (DWR 1677). Isolated from soil sample SS 17163. 21 Jul 2009. USA: Hot Springs County, Wyoming. N 43.707618, W 108.912476.
- 11360 DW Roberts (DWR 1678). Isolated from soil sample SS 14702. 7 Jul 2009. USA: Gunnison County, Colorado. N 38.231393, W 107.46755.
- 11361 DW Roberts (DWR 1679). Isolated from soil sample SS 14705. 8 Jul 2009. USA: Saguache County, Colorado. N 38.064908, W 106.37171.
- 11362 DW Roberts (DWR 1680). Isolated from soil sample SS 14713. 14 Jul 2009. USA: Hinsdale County, Colorado. N 37.810431, W 107.26626.
- 11363 DW Roberts (DWR 1681). Isolated from soil sample SS 14717. 16 Jul 2009. USA: San Miguel County, Colorado. N 38.085778, W 108.32068.
- 11364 DW Roberts (DWR 1682). Isolated from soil sample SS 15463. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0448, W 98.794.
- 11365 DW Roberts (DWR 1691). Isolated from soil sample SS 17647. 3 Jul 2009. USA: Cheyenne County, Colorado. N 38.898978, W 102.35258.
- 11366 DW Roberts (DWR 1692). Isolated from soil sample SS 17936. 10 Aug 2009. USA: Morrow County, Oregon.
- 11367 DW Roberts (DWR 1693). Isolated from soil sample SS 17904. 23 Aug 2009. USA: Deschutes County, Oregon.
- 11368 DW Roberts (DWR 1694). Isolated from soil sample SS 17618. 29 Jun 2009. USA: Kiowa County, Colorado. N 38.542101, W 102.98883.
- 11369 DW Roberts (DWR 1695). Isolated from soil sample SS 17621. 29 Jun 2009. USA: Lincoln County, Colorado. N 38.553315, W 103.23553.
- 11370 DW Roberts (DWR 1696). Isolated from soil sample SS 17628. 3 Jul 2009. USA: Cheyenne County, Colorado. N 38.988258, W 102.08999.
- 11371 DW Roberts (DWR 1697). Isolated from soil sample SS 17636. 3 Jul 2009. USA: Kit Carson County, Colorado. N 39.555528, W 102.07035.
- 11372 DW Roberts (DWR 1698). Isolated from soil sample SS 17645. 3 Jul 2009. USA: Kit Carson County, Colorado. N 39.272181, W 102.25988.
- 11373 DW Roberts (DWR 1711). Isolated from soil sample SS 15946. 28 Jul 2009. USA: Lewis and Clark County, Montana. N 47.420618, W 112.22632.
- 11374 DW Roberts (DWR 1712). Isolated from soil sample SS 15925. 12 Aug 2009. USA: Okanogan County, Washington. N 48.63146, W 119.149493.
- 11375 DW Roberts (DWR 1713). Isolated from soil sample SS 14292. 29 Jul 2009. USA: Bear Lake County, Idaho. N 42.1938, W 111.1523.

- 11376 DW Roberts (DWR 1724). Isolated from soil sample SS 15688. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.3286, W 100.186.
- 11377 DW Roberts (DWR 1725). Isolated from soil sample SS 17789. Jul 2009. USA: Kit Carson County, Colorado. N 39.081441, W 102.18557.
- 11378 DW Roberts (DWR 1726). Isolated from soil sample SS 17480. 16 Jun 2009. USA: Baca County, Colorado. N 37.193018, W 102.05834.
- 11379 DW Roberts (DWR 1727). Isolated from soil sample SS 15555. 10 Jun 2009. USA: Bennett County, South Dakota. N 43.302, W 101.5336.
- 11380 DW Roberts (DWR 1728). Isolated from soil sample SS 16467. 26 Aug 2009. USA: Cochise County, Arizona. N 31.51004, W 109.260908.
- 11381 DW Roberts (DWR 1729). Isolated from soil sample SS 17500. 17 Jun 2009. USA: Cheyenne County, Colorado. N 38.952823, W 102.79681.
- 11382 DW Roberts (DWR 1730). Isolated from soil sample SS 17665. 4 Jul 2009. USA: Bent County, Colorado. N 38.099185, W 102.86141.
- 11383 DW Roberts (DWR 1731). Isolated from soil sample SS 17888. 18 Aug 2009. USA: Oregon.
- 11384 DW Roberts (DWR 1732). Isolated from soil sample SS 17758. 9 Jul 2009. USA: Yuma County, Colorado. N 39.791913, W 102.37043.
- 11385 DW Roberts (DWR 1733). Isolated from soil sample SS 17906. 11 Aug 2009. USA: Gilliam County, Oregon.
- 11386 DW Roberts (DWR 1734). Isolated from soil sample SS 17741. 7 Jul 2009. USA: Kit Carson County, Colorado. N 39.430955, W 102.35264.
- 11388 DW Roberts (DWR 1736). Isolated from soil sample SS 17795. Jul 2009. USA: Prowers County, Colorado. N 38.158551, W 102.37592.
- 11389 DW Roberts (DWR 1737). Isolated from soil sample SS 13507. 10 Jun 2009. USA: El Paso County, Colorado. N 38.838996, W 104.295.
- 11390 DW Roberts (DWR 1738). Isolated from soil sample SS 13490. 19 May 2009. USA: Kit Carson County, Colorado. N 39.068675, W 102.7987.
- 11391 DW Roberts (DWR 1739). Isolated from soil sample SS 13499. 5 Jun 2009. USA: El Paso County, Colorado. N 38.696536, W 104.1076.
- 11392 DW Roberts (DWR 1745). Isolated from soil sample SS 15136. 25 Jun 2009. USA: Huerfano County, Colorado. N 37.805756, W 104.65373.
- 11393 DW Roberts (DWR 1746). Isolated from soil sample SS 17624. 29 Jun 2009. USA: Kiowa County, Colorado. N 38.396435, W 103.0249.
- 11394 DW Roberts (DWR 1747). Isolated from soil sample SS 17623. 29 Jun 2009. USA: Kiowa County, Colorado. N 38.455333, W 103.05291.
- 11395 DW Roberts (DWR 1748). Isolated from soil sample SS 17633. 3 Jul 2009. USA: Kit Carson County, Colorado. N 39.326951, W 102.07186.
- 11396 DW Roberts (DWR 1749). Isolated from soil sample SS 15343. 1 Jul 2009. USA: Corson County, South Dakota. N 45.67553, W 101.14145.
- 11397 DW Roberts (DWR 1750). Isolated from soil sample SS 16771. 18 Aug 2009. USA: Graham County, Arizona. N 33.273211, W 109.853698.
- 11398 DW Roberts (DWR 1751). Isolated from soil sample SS 17682. 5 Jul 2009. USA: Bent County, Colorado. N 38.23302, W 103.27758.
- 11399 DW Roberts (DWR 1752). Isolated from soil sample SS 15525. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.364, W 99.6923.
- 11400 DW Roberts (DWR 1753). Isolated from soil sample SS 17361. 30 Jun 2009. USA: Hidalgo County, New Mexico. N 31.34791, W 108.53088.
- 11401 DW Roberts (DWR 1754). Isolated from soil sample SS 15490. 30 Jun 2009. USA: Dewey County, South Dakota. N 45.184845, W 100.38414.
- 11402 DW Roberts (DWR 1755). Isolated from soil sample SS 17549. 21 Jun 2009. USA: Baca County, Colorado. N 37.327833, W 102.27693.
- 11403 DW Roberts (DWR 1756). Isolated from soil sample SS 16551. 2 Sep 2009. USA: Santa Cruz County, Arizona. N 31.450947, W 110.729712.
- 11404 DW Roberts (DWR 1757). Isolated from soil sample SS 16543. 1 Sep 2009. USA: Santa Cruz County, Arizona. N 31.294418, W 110.5916.
- 11405 DW Roberts (DWR 1758). Isolated from soil sample SS 15151. Jul 2009. USA: Fremont County, Colorado. N 38.308841, W 105.62057.
- 11406 DW Roberts (DWR 1759). Isolated from soil sample SS 17968. 12 Aug 2009. USA: Sherman County, Oregon.
- 11407 DW Roberts (DWR 1760). Isolated from soil sample SS 17844. 4 Aug 2009. USA: Oregon.
- 11408 DW Roberts (DWR 1761). Isolated from soil sample SS 15397. 16 Jun 2009. USA: Mellette County, South Dakota. N 43.4419, W 100.293.
- 11409 DW Roberts (DWR 1762). Isolated from soil sample SS 17568. 22 Jun 2009. USA: Kiowa County, Colorado. N 38.322571, W 102.61857.
- 11410 DW Roberts (DWR 1768). Isolated from soil sample SS 17456. 8 Jun 2009. USA: Prowers County, Colorado. N 38.144516, W 102.11931.
- 11411 DW Roberts (DWR 1769). Isolated from soil sample SS 17460. 8 Jun 2009. USA: Kiowa County, Colorado. N 38.470506, W 102.0873.
- 11412 DW Roberts (DWR 1770). Isolated from soil sample SS 17607. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.76903, W 102.25818.
- 11413 DW Roberts (DWR 1772). Isolated from soil sample SS 17596. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.82461, W 102.53754.
- 11414 DW Roberts (DWR 1773). Isolated from soil sample SS 15935. 12 Aug 2009. USA: Hill County, Montana. N 48.827215, W 110.5542.



- 11415 DW Roberts (DWR 1774). Isolated from soil sample SS 15960. 4 Aug 2009. USA: Pondera County, Montana. N 48.380816, W 112.28488.
- 11416 DW Roberts (DWR 1775). Isolated from soil sample SS 17463. 8 Jun 2009. USA: Kiowa County, Colorado. N 38.58839, W 102.19849.
- 11417 DW Roberts (DWR 1776). Isolated from soil sample SS 14299. 30 Jul 2009. USA: Franklin County, Idaho. N 42.2691, W 111.7455.
- 11418 DW Roberts (DWR 1777). Isolated from soil sample SS 17590. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.881315, W 102.64924.
- 11419 DW Roberts (DWR 1778). Isolated from soil sample SS 14276. 27 Jul 2009. USA: Bonneville County, Idaho. N 43.5926, W 111.6256.
- 11420 DW Roberts (DWR 1779). Isolated from soil sample SS 14300. 30 Jul 2009. USA: Franklin County, Idaho. N 42.1528, W 111.8261.
- 11421 DW Roberts (DWR 1780). Isolated from soil sample SS 15964. 5 Aug 2009. USA: Teton County, Montana. N 48.094881, W 112.26417.
- 11422 DW Roberts (DWR 1781). Isolated from soil sample SS 14296. 29 Jul 2009. USA: Bear Lake County, Idaho. N 42.3946, W 111.0741.
- 11423 DW Roberts (DWR 1782). Isolated from soil sample SS 17594. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.983825, W 102.53774.
- 11424 DW Roberts (DWR 1783). Isolated from soil sample SS 17593. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.996418, W 102.6114.
- 11425 DW Roberts (DWR 1784). Isolated from soil sample SS 17446. 7 Jun 2009. USA: Lincoln County, Colorado. N 38.661975, W 103.35625.
- 11426 DW Roberts (DWR 1785). Isolated from soil sample SS 16571. 17 Aug 2009. USA: Graham County, Arizona. N 33.358002, W 109.932808.
- 11427 DW Roberts (DWR 1786). Isolated from soil sample SS 13212. 29 May 2009. USA: Lincoln County, Colorado. N 39.185321, W 103.49115.
- 11428 DW Roberts (DWR 1787). Isolated from soil sample SS 13492. 29 May 2009. USA: Lincoln County, Colorado. N 39.447876, W 103.49147.
- 11429 DW Roberts (DWR 1788). Isolated from soil sample SS 13496, colony 1. 5 Jun 2009. USA: Elbert County, Colorado. N 39.075975.
- 11430 DW Roberts (DWR 1789). Isolated from soil sample SS 13496, colony 2. 5 Jun 2009. USA: Elbert County, Colorado.
- 11431 DW Roberts (DWR 1790). Isolated from soil sample SS 13508. 10 Jun 2009. USA: El Paso County, Colorado.
- 11432 DW Roberts (DWR 1791). 10 Jun 2009. USA: El Paso County, Colorado.
- 11433 DW Roberts (DWR 1792). 31 May 2009.
- 11434 DW Roberts (DWR 1793). Isolated from soil sample SS 16063. 13 Jul 2009. USA: Chouteau County, Montana. N 47.991665, W 111.1306.
- 11435 DW Roberts (DWR 1794). Isolated from soil sample SS 16106. Jul 2009. USA: Sheridan County, Montana. N 48.820291, W 104.9839.
- 11436 DW Roberts (DWR 1795). Isolated from soil sample SS 16118. 22 Jul 2009. USA: Wheatland County, Montana. N 46.464406, W 109.8629.
- 11437 DW Roberts (DWR 1796). Isolated from soil sample SS 16127. 29 Jul 2009. USA: Wibaux County, Montana. N 47.31065, W 104.2362.
- 11438 DW Roberts (DWR 1797). Isolated from soil sample SS 16493. 22 Jul 2009. USA: Coconino County, Arizona. N 35.765638, W 112.28319.
- 11439 DW Roberts (DWR 1798). Isolated from soil sample SS 17477. 16 Jun 2009. USA: Baca County, Colorado. N 37.398595, W 102.0918.
- 11440 DW Roberts (DWR 1799). Isolated from soil sample SS 17494. 17 Jun 2009. USA: Kiowa County, Colorado. N 38.498753, W 102.7853.
- 11441 DW Roberts (DWR 1800). Isolated from soil sample SS 17505. 17 Jun 2009. USA: Cheyenne County, Colorado. N 38.965531, W 103.1081.
- 11442 DW Roberts (DWR 1801). Isolated from soil sample SS 17768. 9 Jul 2009. USA: Yuma County, Colorado. N 39.676836, W 102.4622.
- 11443 DW Roberts (DWR 1802). Isolated from soil sample SS 17778. Jul 2009. USA: Cheyenne County, Colorado. N 38.900521, W 102.2688.
- 11444 DW Roberts (DWR 1803). Isolated from soil sample SS 17779. Jul 2009. USA: Cheyenne County, Colorado. N 38.958283, W 102.2593.
- 11445 DW Roberts (DWR 1804). Isolated from soil sample SS 17833. 19 Aug 2009. USA: Oregon.
- 11446 DW Roberts (DWR 1805). Isolated from soil sample SS 18010. 30 Jul 2009. USA: Union County, Oregon.
- 11447 DW Roberts (DWR 1806). Isolated from soil sample SS 18040. 4 Nov 2009. USA: Ada County, Idaho. N 43.39675, W 116.4179.
- 11448 DW Roberts (DWR 1807). Isolated from soil sample SS 18042. 4 Nov 2009. USA: Ada County, Idaho. N 43.35104, W 116.32624.
- 11449 DW Roberts (DWR 1816). Isolated from soil sample SS 15677. 1 Jun 2009. USA: Gregory County, South Dakota. N 43.39173, W 99.435.
- 11450 DW Roberts (DWR 1817). Isolated from soil sample SS 15408. 29 Jun 2009. USA: Buffalo County, South Dakota. N 44.0839, W 99.2064.
- 11451 DW Roberts (DWR 1818). Isolated from soil sample SS 13412. 19 May 2009. USA: Kit Carson County, Colorado. N 39.164448, W 102.4637.
- 11452 DW Roberts (DWR 1819). Isolated from soil sample SS 13410. 20 May 2009. USA: Kit Carson County, Colorado. N 39.053513, W 102.9579.

- 11453 DW Roberts (DWR 1820). Isolated from soil sample SS 13408. 20 May 2009. USA: Kit Carson County, Colorado. N 39.421716, W 102.742.
- 11454 DW Roberts (DWR 1821). Isolated from soil sample SS 13389. 16 Jun 2009. USA: Mesa County, Colorado. N 39.278945, W 108.3623.
- 11455 DW Roberts (DWR 1822). Isolated from soil sample SS 15918. 20 Aug 2009. USA: Whitman County, Washington. N 46.62006, W 117.33241.
- 11456 DW Roberts (DWR 1823). Isolated from soil sample SS 16721. 20 Jul 2009. USA: Coconino County, Arizona. N 35.259923, W 111.70945.
- 11457 DW Roberts (DWR 1824). Isolated from soil sample SS 15376. 17 Jun 2009. USA: Bennett County, South Dakota. N 43.3601, W 101.7019.
- 11458 DW Roberts (DWR 1825). Isolated from soil sample SS 13291. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.068076, W 105.0862.
- 11459 DW Roberts (DWR 1826). Isolated from soil sample SS 15681. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.286, W 99.0704.
- 11460 DW Roberts (DWR 1827). Isolated from soil sample SS 13395. 29 May 2009. USA: Lincoln County, Colorado. N 39.219763, W 103.4912.
- 11461 DW Roberts (DWR 1828). Isolated from soil sample SS 15592. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.234, W 99.2967.
- 11462 DW Roberts (DWR 1829). Isolated from soil sample SS 15593. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.226, W 99.364.
- 11463 DW Roberts (DWR 1830). Isolated from soil sample SS 15608. 4 Jun 2009. USA: Lyman County, South Dakota. N 44.1224, W 100.3415.
- 11464 DW Roberts (DWR 1831). Isolated from soil sample SS 16659. 4 Aug 2009. USA: Cochise County, Arizona. N 31.447734, W 110.30693.
- 11465 DW Roberts (DWR 1832). Isolated from soil sample SS 15105. Jul 2009. USA: Fremont County, Colorado. N 38.656265, W 105.668.
- 11466 DW Roberts (DWR 1833). Isolated from soil sample SS 16836. 19 Aug 2009. USA: Graham County, Arizona. N 33.412627, W 109.64712.
- 11467 DW Roberts (DWR 1834). Isolated from soil sample SS 16022. 5 Aug 2009. USA: Jefferson County, Montana. N 45.932318, W 111.8465.
- 11468 DW Roberts (DWR 1835). Isolated from soil sample SS 16541. 1 Sep 2009. USA: Cochise County, Arizona. N 31.35026, W 110.27562.
- 11469 DW Roberts (DWR 1836). Isolated from soil sample SS 16916. 3 Aug 2009. USA: Coconino County, Arizona. N 35.067359, W 111.51112.
- 11470 DW Roberts (DWR 1837). Isolated from soil sample SS 16019. 22 Jul 2009. USA: Golden Valley County, Montana. N 46.333411, W 108.9465.
- 11471 DW Roberts (DWR 1838). Isolated from soil sample SS 18077. Sep 2009. USA: Eureka County, Nevada. N 39.901868, W 116.5837.
- 11472 DW Roberts (DWR 1839). Isolated from soil sample SS 17453. 8 Jun 2009. USA: Prowers County, Colorado. N 38.06344, W 102.3555.
- 11473 DW Roberts (DWR 1840). Isolated from soil sample SS 16834. 19 Aug 2009. USA: Graham County, Arizona. N 33.449064, W 109.63713.
- 11474 DW Roberts (DWR 1841). Isolated from soil sample SS 17439. 7 Jun 2009. USA: Kiowa County, Colorado. N 38.386008, W 103.4875.
- 11475 DW Roberts (DWR 1842). Isolated from soil sample SS 16534. 1 Sep 2009. USA: Santa Cruz County, Arizona. N 31.440172, W 110.65206.
- 11476 DW Roberts (DWR 1843). Isolated from soil sample SS 14174. 14 Jul 2009. USA: Elko County, Nevada. N 41.84286, W 115.95084.
- 11477 DW Roberts (DWR 1846). Isolated from soil sample SS 15164. 25 Jun 2009. USA: Huerfano County, Colorado. N 37.791865, W 104.7341.
- 11478 DW Roberts (DWR 1847). Isolated from soil sample SS 16537. 1 Sep 2009. USA: Santa Cruz County, Arizona. N 31.454967, W 110.61091.
- 11479 DW Roberts (DWR 1848). Isolated from soil sample SS 15120. 24 Jun 2009. USA: Baca County, Colorado. N 37.320136, W 102.7423.
- 11480 DW Roberts (DWR 1849). Isolated from soil sample SS 15689. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.2237, W 100.10725.
- 11481 DW Roberts (DWR 1850). Isolated from soil sample SS 13415. 19 May 2009. USA: Kit Carson County, Colorado. N 39.287251, W 102.7804.
- 11482 DW Roberts (DWR 1851). Isolated from soil sample SS 13484. 20 May 2009. USA: Kit Carson County, Colorado. N 39.127716, W 102.9688.
- 11483 DW Roberts (DWR 1852). Isolated from soil sample SS 17600. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.824215, W 102.2586.
- 11484 DW Roberts (DWR 1853). Isolated from soil sample SS 17422. 19 May 2009. USA: Kiowa County, Colorado. N 38.433611, W 102.5556.
- 11485 DW Roberts (DWR 1854). Isolated from soil sample SS 15529. 3 Jun 2009. USA: Tripp County, South Dakota. N 43.2035, W 100.1666.
- 11486 DW Roberts (DWR 1861). Isolated from soil sample SS 17431. 19 May 2009. USA: Cheyenne County, Colorado. N 38.658001, W 102.4385.
- 11487 DW Roberts (DWR 1862). Isolated from soil sample SS 15350. 2 Jun 2009. USA: Fall River County, South Dakota. N 43.262, W 103.5826.
- 11488 DW Roberts (DWR 1863). Isolated from soil sample SS 15383. 22 Jun 2009. USA: Custer County, South Dakota. N 43.6942, W 102.896.

- 11489 DW Roberts (DWR 1864). Isolated from soil sample SS 16756. 17 Aug 2009. USA: Graham County, Arizona. N 33.260055, W 109.84727.
- 11490 DW Roberts (DWR 1865). Isolated from soil sample SS 13398. 18 May 2009. USA: Kit Carson County, Colorado. N 39.301228, W 102.4653.
- 11491 DW Roberts (DWR 1866). Isolated from soil sample SS 13483. 20 May 2009. USA: Kit Carson County, Colorado. N 39.242958, W 102.8749.
- 11492 DW Roberts (DWR 1867). Isolated from soil sample SS 17416. 6 Aug 2009. USA: Roosevelt County, New Mexico. N 33.74441, W 103.2884.
- 11493 DW Roberts (DWR 1868). Isolated from soil sample SS 17613. 28 Jun 2009. USA: Kiowa County, Colorado. N 38.368953, W 102.4361.
- 11494 DW Roberts (DWR 1869). Isolated from soil sample SS 17427. 19 May 2009. USA: Cheyenne County, Colorado. N 38.658726, W 102.3279.
- 11495 DW Roberts (DWR 1870). Isolated from soil sample SS 17426. 19 May 2009. USA: Kiowa County, Colorado. N 38.556886, W 102.309.
- 11496 DW Roberts (DWR 1871). Isolated from soil sample SS 17459. 8 Jun 2009. USA: Kiowa County, Colorado. N 38.355286, W 102.0838.
- 11497 DW Roberts (DWR 1872). Isolated from soil sample SS 17601. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.824215, W 102.2586.
- 11498 DW Roberts (DWR 1873). Isolated from soil sample SS 17609. 28 Jun 2009. USA: Prowers County, Colorado. N 38.256275, W 102.3115.
- 11499 DW Roberts (DWR 1874). Isolated from soil sample SS 16884. 12 Aug 2009. USA: Coconino County, Arizona. N 35.575898, W 111.93302.
- 11500 DW Roberts (DWR 1875). Isolated from soil sample SS 17672. 5 Jul 2009. USA: Kiowa County, Colorado. N 38.306073, W 103.3589.
- 11501 DW Roberts (DWR 1876). Isolated from soil sample SS 17604. 24 Jun 2009. USA: Cheyenne County, Colorado. N 38.673018, W 102.0882.
- 11502 DW Roberts (DWR 1877). Isolated from soil sample SS 18307. Jun 2009. USA: Slope County, North Dakota. N 46.338168, W 103.75.
- 11503 DW Roberts (DWR 1878). Isolated from soil sample SS 17467. 8 Jun 2009. USA: Kiowa County, Colorado. N 38.397433, W 102.3994.
- 11504 DW Roberts (DWR 1879). Isolated from soil sample SS 17421. 19 May 2009. USA: Kiowa County, Colorado. N 38.460953, W 102.634.
- 11505 DW Roberts (DWR 1880). Isolated from soil sample SS 18033. 4 Nov 2009. USA: Ada County, Idaho. N 43.29398, W 116.24912.
- 11506 DW Roberts (DWR 1881). Isolated from soil sample SS 16804. 28 Jul 2009. USA: Apache County, Arizona. N 36.993913, W 109.04155.
- 11507 DW Roberts (DWR 1882). Isolated from soil sample SS 17585. 23 Jun 2009. USA: Kiowa County, Colorado. N 38.508303, W 102.6024.
- 11508 DW Roberts (DWR 1883). Isolated from soil sample SS 12074. 11 Jun 2009. USA: Donley County, Texas. N 34.96198, W 100.93602.
- 11509 DW Roberts (DWR 1884). Isolated from soil sample SS 12070. 10 Jun 2009. USA: Collingsworth County, Texas. N 35.10693, W 100.52151.
- 11510 DW Roberts (DWR 1885). Isolated from soil sample SS 12084. 18 Jun 2009. USA: Runnels County, Texas. N 32.05688, W 100.11147.
- 11511 DW Roberts (DWR 1886). Isolated from soil sample SS 12065. 9 Jun 2009. USA: Wheeler County, Texas. N 35.49702, W 100.12129.
- 11512 DW Roberts (DWR 1887). Isolated from soil sample SS 15462. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0389, W 99.076.
- 11513 DW Roberts (DWR 1888). Isolated from soil sample SS 13267. 17 Jun 2009. USA: Elbert County, Colorado. N 39.269821, W 104.0859.
- 11514 DW Roberts (DWR 1889). Isolated from soil sample SS 13414. 19 May 2009. USA: Kit Carson County, Colorado. N 39.138356, W 102.6891.
- 11515 DW Roberts (DWR 1890). Isolated from soil sample SS 13293. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.217193, W 105.0157.
- 11516 DW Roberts (DWR 1891). Isolated from soil sample SS 13292. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.062591, W 105.0122.
- 11517 DW Roberts (DWR 1892). Isolated from soil sample SS 13273. 22 Jun 2009. USA: Adams County, Colorado. N 39.740846, W 104.1343.
- 11518 DW Roberts (DWR 1893). Isolated from soil sample SS 15908. 6 Aug 2009. USA: Stevens County, Washington. N 48.297557, W 117.92978.
- 11519 DW Roberts (DWR 1894). Isolated from soil sample SS 15862. 31 Jul 2009. USA: Boundary County, Idaho. N 48.589167, W 116.38172.
- 11520 DW Roberts (DWR 1895). Isolated from soil sample SS 13270. 18 Jun 2009. USA: Park County, Colorado. N 39.074741, W 105.711.
- 11521 DW Roberts (DWR 1896). Isolated from soil sample SS 15464. 2 Jun 2009. USA: Gregory County, South Dakota. N 43.0054, W 98.9617.
- 11522 DW Roberts (DWR 1897). Isolated from soil sample SS 12080. 17 Jun 2009. USA: Callahan County, Texas. N 32.50322, W 99.54539.
- 11523 DW Roberts (DWR 1898). Isolated from soil sample SS 13269. 18 Jun 2009. USA: Park County, Colorado. N 39.213618, W 105.8211.
- 11524 DW Roberts (DWR 1900). Isolated from soil sample SS 13294. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.29175, W 105.052721.

- 11525 DW Roberts (DWR 1901). Isolated from soil sample SS 13478. 19 May 2009. USA: Kit Carson County, Colorado. N 39.069626, W 102.581295.
- 11526 DW Roberts (DWR 1902). Isolated from soil sample SS 13419. 20 May 2009. USA: Kit Carson County, Colorado. N 39.200398, W 102.968711.
- 11527 DW Roberts (DWR 1903). Isolated from soil sample SS 13296. 9 Jul 2009. USA: Las Animas County, Colorado. N 37.335551, W 104.612466.
- 11528 DW Roberts (DWR 1904). Isolated from soil sample SS 13277. 18 Jun 2009. USA: Park County, Colorado. N 39.110618, W 105.712975.
- 11529 DW Roberts (DWR 1905). Isolated from soil sample SS 13481. 20 May 2009. USA: Kit Carson County, Colorado. N 39.495018, W 102.74102.
- 11530 DW Roberts (DWR 1906). Isolated from soil sample SS 15853. 5 Aug 2009. USA: Bannock County, Idaho. N 42.5322, W 112.3767.
- 11531 DW Roberts (DWR 1907). Isolated from soil sample SS 15920. 12 Aug 2009. USA: Okanogan County, Washington. N 48.739797, W 118.9899217.
- 11532 DW Roberts (DWR 1910). Isolated from soil sample SS 18076. Sep 2009. USA: Eureka County, Nevada. N 39.941567, W 116.522832.
- 11533 DW Roberts (DWR 1911). Isolated from soil sample SS 17841. 4 Aug 2009. USA: Harney County, Oregon. N 43.41016, W 118.5893.
- 11534 DW Roberts (DWR 1912). Isolated from soil sample SS 17851. 5 Aug 2009. USA: Malheur County, Oregon. N 43.036847, W 118.2208.
- 11535 DW Roberts (DWR 1913). Isolated from soil sample SS 11324. 13 May 2009. USA: Swisher County, Texas. N 34.49404, W 101.57403.
- 11536 DW Roberts (DWR 1914). Isolated from soil sample SS 11326. 13 May 2009. USA: Swisher County, Texas. N 34.57862, W 101.54028.
- 11537 DW Roberts (DWR 1915). Isolated from soil sample SS 11344. 20 May 2009. USA: Dickens County, Texas. N 33.77719, W 100.74184.
- 11538 DW Roberts (DWR 1916). Isolated from soil sample SS 11358. 20 May 2009. USA: Cochran County, Texas. N 33.75795, W 102.993.
- 11539 DW Roberts (DWR 1917). Isolated from soil sample SS 11375. 19 May 2009. USA: Terry County, Texas. N 33.26798, W 102.15398.
- 11540 DW Roberts (DWR 1918). Isolated from soil sample SS 12896. 8 Jul 2009. USA: Graham County, Arizona. N 33.415724, W 109.773439.
- 11541 DW Roberts (DWR 1919). Isolated from soil sample SS 14257. 5 Aug 2009. USA: Lassen County, California. N 41.16576, W 120.99517.
- 11542 DW Roberts (DWR 1920). Isolated from soil sample SS 12894. 8 Jul 2009. USA: Graham County, Arizona. N 33.212844, W 109.912036.
- 11543 DW Roberts (DWR 1921). Isolated from soil sample SS 12900. 8 Jul 2009. USA: Graham County, Arizona. N 33.296022, W 109.794102.
- 11544 DW Roberts (DWR 1922). Isolated from soil sample SS 11377. 19 May 2009. USA: Yoakum County, Texas. N 33.05361, W 102.99115.
- 11545 DW Roberts (DWR 1923). Isolated from soil sample SS 15469. 4 Jun 2009. USA: Stanley County, South Dakota. N 44.287583, W 100.50823.
- 11546 DW Roberts (DWR 1924). Isolated from soil sample SS 12219. 24 Jun 2009. USA: Elko County, Nevada. N 41.691677, W 116.02904.
- 11547 DW Roberts (DWR 1925). Isolated from soil sample SS 15990. Jul 2009. USA: Chouteau County, Montana. N 47.654951, W 110.387683.
- 11548 DW Roberts (DWR 1926). Isolated from soil sample SS 11379. 19 May 2009. USA: Yoakum County, Texas. N 33.05124, W 102.66315.
- 11549 DW Roberts (DWR 1927). Isolated from soil sample SS 12826. 9 Jul 2009. USA: Graham County, Arizona. N 33.350459, W 110.056835.
- 11550 DW Roberts (DWR 1928). Isolated from soil sample SS 13551. 16 Jul 2009. USA: Clark County, Idaho. N 44.187289, W 112.935438.
- 11551 DW Roberts (DWR 1929). Isolated from soil sample SS 14205. 29 Jul 2009. USA: Elko County, Nevada. N 41.248395, W 116.06109.
- 11552 DW Roberts (DWR 1930). Isolated from soil sample SS 11361. 14 May 2009. USA: Hockley County, Texas. N 33.50001, W 102.56741.
- 11553 DW Roberts (DWR 1931). Isolated from soil sample SS 16029. 6 Aug 2009. USA: Phillips County, Montana. N 48.396278, W 107.586423.
- 11554 DW Roberts (DWR 1932). Isolated from soil sample SS 11306. 12 May 2009. USA: Crosby County, Texas. N 33.64232, W 101.05032.
- 11555 DW Roberts (DWR 1933). Isolated from soil sample SS 14176. Jul 2009. USA: Elko County, Nevada. N 41.979302, W 115.437232.
- 11556 DW Roberts (DWR 1934). Isolated from soil sample SS 12897. 8 Jul 2009. USA: Graham County, Arizona. N 33.384266, W 109.737175.
- 11557 DW Roberts (DWR 1935). Isolated from soil sample SS 12778. 28 Jun 2009. USA: Klickitat County, Washington. N 45.76729, W 120.33805.
- 11558 DW Roberts (DWR 1936). Isolated from soil sample SS 11640. 19 May 2009. USA: Elko County, Nevada. N 41.901008, W 115.957027.
- 11559 DW Roberts (DWR 1937). Isolated from soil sample SS 11613. 7 Apr 2009. USA: Elko County, Nevada. N 41.299195, W 116.254208.
- 11560 DW Roberts (DWR 1943). Isolated from soil sample SS 12991. 22 Jul 2009. USA: Kane County, Utah. N 37.4423, W 112.0442.

- 11561 DW Roberts (DWR 1944). Isolated from soil sample SS 16206. 13 Jul 2009. USA: Cascade County, Montana. N 47.321393, W 111.859605.
- 11562 DW Roberts (DWR 1945). Isolated from soil sample SS 12809. Jul 2009. USA: Mohave County, Arizona. N 36.261651, W 113.071113.
- 11563 DW Roberts (DWR 1946). Isolated from soil sample SS 13004. 23 Jul 2009. USA: Garfield County, Utah. N 38.1403, W 111.3755.
- 11564 DW Roberts (DWR 1947). Isolated from soil sample SS 12798. 6 Jul 2009. USA: Gila County, Arizona. N 33.517133, W 110.395372.
- 11565 DW Roberts (DWR 1948). Isolated from soil sample SS 16250. 5 Aug 2009. USA: Meagher County, Montana. N 46.621773, W 110.7262159.
- 11566 DW Roberts (DWR 1952). Isolated from soil sample SS 18338. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.821283, W 101.070285.
- 11567 DW Roberts (DWR 1953). Isolated from soil sample SS 18334. 29 Jun 2009. USA: Bottineau County, North Dakota. N 48.718878, W 100.175475.
- 11568 DW Roberts (DWR 1959). Isolated from soil sample SS 12971. 21 Jul 2009. USA: Garfield County, Utah. N 38.0708, W 111.1932.
- 11569 DW Roberts (DWR 1960). Isolated from soil sample SS 2495. 22 Aug 2008. USA: Graham County, Arizona. N 33.206645, W 109.8120833.
- 11570 DW Roberts (DWR 1961). Isolated from soil sample SS 10010. 28 Aug 2008. USA: Wichita County, Kansas. N 38.54377, W 101.44194.
- 11571 DW Roberts (DWR 1962). Isolated from soil sample SS 3465. 14 Aug 2008. USA: Santa Barbara County, California. N 34.98429, W 120.19668.
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- 11895 DW Roberts (DWR 2035). Isolated from soil sample SS 18768. 25 Jun 2010. USA: Washoe County, Nevada. N 39.718247, W 119.608513.
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- 11958 DW Roberts (DWR 2114). Isolated from soil sample SS 19823. 3 Jun 2010. USA: Graham County, Arizona. N 33.3795, W 109.74382.
- 11959 DW Roberts (DWR 2115). Isolated from soil sample SS 19773. 22 Jun 2010. USA: Graham County, Arizona. N 33.421692, W 109.81548.
- 11960 DW Roberts (DWR 2116). Isolated from soil sample SS 19766. 2 Jun 2010. USA: Graham County, Arizona. N 33.218714, W 109.88695.
- 11961 DW Roberts (DWR 2117). Isolated from soil sample SS 457. Rec'd 30 Apr 2012. USA: west of Kanab, Kane County, Utah. N 37.02208, W 112.18106.
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- 11963 DW Roberts (DWR 2126). Isolated from soil sample SS 19253. 10 Jun 2010. USA: Washington County, Utah. N 37.0705, W 113.1011.
- 11964 DW Roberts (DWR 2127). Isolated from soil sample SS 19477. Jun 2010. USA: Humboldt County, Nevada. N 41.574405, W 117.86794.
- 11965 DW Roberts (DWR 2128). Isolated from soil sample SS 19640. 23 Jun 2010. USA: Iron County, Utah. N 37.5754, W 113.2122.
- 11966 DW Roberts (DWR 2129). Isolated from soil sample SS 20123. 25 Jun 2010. USA: Elmore County, Idaho. N 42.89464, W 115.40259.
- 11967 DW Roberts (DWR 2130). Isolated from soil sample SS 20135. 17 Mar 2010. USA: Jackson County, Oregon. N 42.363304, W 122.87361.
- 11968 DW Roberts (DWR 2131). Isolated from soil sample SS 20184. 8 Jul 2010. USA: Maricopa County, Arizona. N 33.47561, W 111.77249.
- 11969 DW Roberts (DWR 2132). Isolated from soil sample SS 21329. 6 Jul 2010. USA: Maricopa County, Arizona. N 33.66752, W 111.67792.
- 11970 DW Roberts (DWR 2133). Isolated from soil sample SS 21625. 19 Jul 2010. USA: Mora County, New Mexico. N 35.86777, W 105.13212.
- 11971 DW Roberts (DWR 2134). Isolated from soil sample SS 22338. 26 Jul 2010. USA: Hayes County, Nebraska. N 40.49218, W 100.93045.
- 11973 DW Roberts (DWR 2136). Isolated from soil sample SS 19674. 21 Jun 2010. USA: Millard County, Utah. N 39.0847, W 113.043.
- 11974 DW Roberts (DWR 2137). Isolated from soil sample SS 19993. 2 Jun 2010. USA: Graham County, Arizona. N 33.298107, W 109.91969.
- 11975 DW Roberts (DWR 2138). Isolated from soil sample SS 21779. 29 Jun 2010. USA: Lander County, Nevada. N 39.37686, W 117.23957.
- 11976 DW Roberts (DWR 2139). Isolated from soil sample SS 22345. 3 Aug 2010. USA: Kimball County, Nebraska. N 41.11436, W 104.05335.
- 11977 DW Roberts (DWR 2140). Isolated from soil sample SS 22433. 2 Aug 2010. USA: Cheyenne County, Nebraska. N 41.175323, W 102.72493.
- 11978 DW Roberts (DWR 2141). Isolated from soil sample SS 22450. 2 Aug 2010. USA: Cheyenne County, Nebraska. N 41.030193, W 102.79277.
- 11979 DW Roberts (DWR 2163). Isolated from soil sample SS 21592. 13 Jul 2010. USA: San Miguel County, New Mexico. N 35.73941, W 105.24086.
- 11980 DW Roberts (DWR 2164). Isolated from soil sample SS 21686. 29 Jun 2010. USA: Lander County, Nevada. N 39.667452, W 117.02765.
- 11981 DW Roberts (DWR 2165). Isolated from soil sample SS 22003. 13 Jul 2010. USA: White Pine County, Nevada. N 39.571618, W 115.56535.
- 11982 DW Roberts (DWR 2166). Isolated from soil sample SS 22050. 29 Jul 2010. USA: Banner County, Nebraska. N 41.568751, W 103.58542.
- 11983 DW Roberts (DWR 2167). Isolated from soil sample SS 22053. 28 Jul 2010. USA: Morrill County, Nebraska. N 41.749932, W 102.93642.
- 11984 DW Roberts (DWR 2168). Isolated from soil sample SS 22315. 21 Jul 2010. USA: Chase County, Nebraska. N 40.45155, W 101.60876.
- 11985 DW Roberts (DWR 2169). Isolated from soil sample SS 22796. 14 Jul 2010. USA: Coconino County, Arizona. N 35.518922, W 112.90235.
- 11986 DW Roberts (DWR 2170). Isolated from soil sample SS 23212. 1 Jun 2010. USA: Ziebach County, South Dakota. N 44.715, W 101.3068.
- 11987 DW Roberts (DWR 2171). Isolated from soil sample SS 23217. 1 Jun 2010. USA: Ziebach County, South Dakota. N 44.73827, W 101.79459.
- 11988 DW Roberts (DWR 2173). Isolated from soil sample SS 21227. 6 Jul 2010. USA: Pinal County, Arizona. N 33.06169, W 111.89016.
- 11989 DW Roberts (DWR 2174). Isolated from soil sample SS 21480. 26 Jul 2010. USA: Garfield County, Utah. N 38.0708, W 111.1932.
- 11990 DW Roberts (DWR 2175). Isolated from soil sample SS 21557. 19 Jul 2010. USA: Cibola County, New Mexico. N 34.98721, W 107.18676.
- 11991 DW Roberts (DWR 2176). Isolated from soil sample SS 22036. 29 Jul 2010. USA: Scotts Bluff County, Nebraska. N 41.713241, W 103.570715.
- 11992 DW Roberts (DWR 2177). Isolated from soil sample SS 22061. 28 Jul 2010. USA: Morrill County, Nebraska. N 41.453606, W 102.906474.
- 11993 DW Roberts (DWR 2178). Isolated from soil sample SS 22245. 27 Jul 2010. USA: Morrill County, Nebraska. N 41.800272, W 102.989698.

- 11994 DW Roberts (DWR 2179). Isolated from soil sample SS 22354. 3 Aug 2010. USA: Kimball County, Nebraska. N 41.008658, W 103.649346.
- 11995 DW Roberts (DWR 2180). Isolated from soil sample SS 22375. 26 Jul 2010. USA: Sherman County, Nebraska. N 41.306466, W 99.109066.
- 11996 DW Roberts (DWR 2181). Isolated from soil sample SS 21986. 7 Jul 2010. USA: Elko County, Nevada. N 41.335423, W 116.193413.
- 11997 DW Roberts (DWR 2182). Isolated from soil sample SS 22020. 2 Aug 2010. USA: Frontier County, Nebraska. N 40.46756, W 100.26192.
- 11999 DW Roberts (DWR 2184). Isolated from soil sample SS 22230. 26 Jul 2010. USA: Morrill County, Nebraska. N 41.684985, W 103.07357.
- 12000 DW Roberts (DWR 2185). Isolated from soil sample SS 22241. 27 Jul 2010. USA: Morrill County, Nebraska. N 41.808199, W 102.857345.
- 12001 DW Roberts (DWR 2186). Isolated from soil sample SS 22246. 27 Jul 2010. USA: Morrill County, Nebraska. N 41.746732, W 102.692398.
- 12002 DW Roberts (DWR 2187). Isolated from soil sample SS 22289. 29 Jul 2010. USA: Perkins County, Nebraska. N 40.70208, W 101.85952.
- 12003 DW Roberts (DWR 2188). Isolated from soil sample SS 22395. 27 Jul 2010. USA: Sherman County, Nebraska. N 41.31138, W 99.184573.
- 12004 DW Roberts (DWR 2189). Isolated from soil sample SS 22864. 20 Jul 2010. USA: Maricopa County, Arizona. N 32.89341, W 112.94703.
- 12006 DW Roberts (DWR 2196). Isolated from soil sample SS 21539. Jul 2010. USA: Harlan County, Nebraska. N 40.060457, W 99.465457.
- 12007 DW Roberts (DWR 2202). Isolated from soil sample SS 20279. 30 Jun 2010. USA: Maricopa County, Arizona. N 33.74485, W 112.28564.
- 12008 DW Roberts (DWR 2203). Isolated from soil sample SS 22775. 20 Jul 2010. USA: Maricopa County, Arizona. N 32.89332, W 112.94272.
- 12009 DW Roberts (DWR 2204). Isolated from soil sample SS 21797. 13 Jul 2010. USA: Elko County, Nevada. N 41.859068, W 115.456145.
- 12010 DW Roberts (DWR 2205). Isolated from soil sample SS 22797. 14 Jul 2010. USA: Coconino County, Arizona. N 35.512615, W 112.906628.
- 12011 DW Roberts (DWR 2206). Isolated from soil sample SS 21947. 8 Jun 2010. USA: Humboldt County, Nevada. N 41.2913, W 117.56189.
- 12012 DW Roberts (DWR 2208). Isolated from soil sample SS 23280. 22 Jul 2010. USA: Wayne County, Utah. N 38.1756, W 111.2547.
- 12013 DW Roberts (DWR 2209). Isolated from soil sample SS 26258. 16 Aug 2010. USA: Wheatland County, Montana. N 46.423436, W 109.842215.
- 12014 DW Roberts (DWR 2210). Isolated from soil sample SS 26170. 11 Aug 2010. USA: Teton County, Montana. N 48.014959, W 112.026792.
- 12015 DW Roberts (DWR 2211). Isolated from soil sample SS 26169. 11 Aug 2010. USA: Teton County, Montana. N 47.871536, W 111.559205.
- 12016 DW Roberts (DWR 2212). Isolated from soil sample SS 26251. 9 Aug 2010. USA: Toole County, Montana. N 48.495943, W 112.076656.
- 12017 DW Roberts (DWR 2213). Isolated from soil sample SS 26199. 22 Jul 2010. USA: Powder River County, Montana. N 45.227415, W 105.839425.
- 12018 DW Roberts (DWR 2214). Isolated from soil sample SS 21911. 14 Jul 2010. USA: Eureka County, Nevada. N 39.926522, W 115.872422.
- 12019 DW Roberts (DWR 2215). Isolated from soil sample SS 21868. 23 Jun 2010. USA: Humboldt County, Nevada. N 41.390058, W 117.260055.
- 12020 DW Roberts (DWR 2216). Isolated from soil sample SS 25993. 26 Jul 2010. USA: Blaine County, Montana. N 48.290616, W 109.361748.
- 12021 DW Roberts (DWR 2217). Isolated from soil sample SS 26310. 3 Aug 2010. USA: Beaverhead County, Montana. N 44.606168, W 111.934148.
- 12022 DW Roberts (DWR 2219). Isolated from soil sample SS 22086. 22 Jul 2010. USA: Buffalo County, Nebraska. N 40.92399, W 99.2553.
- 12023 [ERL 2102] S Gouli (A-12/1) and Y Hernaiz Hernandez. Queen, [Hymenoptera: Formicidae]. Jun 2012. USA: Fredericksburg, Texas.
- 12024 [ERL 2103] S Gouli (A-12/2) and Y Hernaiz Hernandez. Queen, [Hymenoptera: Formicidae]. Jun 2012. USA: Fredericksburg, Texas.
- 12025 [ERL 2104] S Gouli (A-12/3) and Y Hernaiz Hernandez. Queen, [Hymenoptera: Formicidae]. Jul 2012. USA: State Line Road, Arizona.
- 12026 [ERL 2105] S Gouli (A-12/4) and Y Hernaiz Hernandez. Queen, [Hymenoptera: Formicidae]. Jul 2012. USA: State Line Road, Arizona.
- 12092 DW Roberts (DWR 2224). Isolated from soil sample SS 20337. 8 Jul 2010. USA: Pinal County, Arizona. N 32.73439, W 111.4507.
- 12093 DW Roberts (DWR 2225). Isolated from soil sample SS 20371. 28 Jun 2010. USA: Maricopa County, Arizona. N 33.28451, W 111.60407.
- 12094 DW Roberts (DWR 2230). Isolated from soil sample SS 22558. 20 Jul 2010. USA: Mohave County, Arizona. N 36.270414, W 113.579924.
- 12095 DW Roberts (DWR 2231). Isolated from soil sample SS 22094. 21 Jul 2010. USA: Furnas County, Nebraska. N 40.238686, W 99.949158.
- 12096 DW Roberts (DWR 2258). Isolated from soil sample SS 21544. Jul 2010. USA: Harlan County, Nebraska. N 40.259383, W 99.611561.

- 12097 DW Roberts (DWR 2262). Isolated from soil sample SS 25353. 13 Sep 2010. USA: Lincoln County, Nebraska. N 40.721859, W 100.618147.
- 12098 DW Roberts (DWR 2263). Isolated from soil sample SS 22093. 21 Jul 2010. USA: Furnas County, Nebraska. N 40.328696, W 99.88721.
- 12099 DW Roberts (DWR 2290). Isolated from soil sample SS 26842. 13 May 2011. USA: Maricopa County, Arizona. N 33.25818, W 112.78474.
- 12100 DW Roberts (DWR 2291). Isolated from soil sample SS 24075. 23 Jun 2010. USA: Idaho.
- 12101 DW Roberts (DWR 2320). Isolated from soil sample SS 23698. 17 Aug 2010. USA: Garfield County, Washington. N 46.550448, W 117.661143.
- 12102 DW Roberts (DWR 2321). Isolated from soil sample SS 24770. 20 Aug 2010. USA: Maricopa County, Arizona. N 33.22088, W 111.68938.
- 12103 DW Roberts (DWR 2322). Isolated from soil sample SS 24116. 11 Aug 2010. USA: Minidoka County, Idaho. N 42.662974, W 113.564188.
- 12104 DW Roberts (DWR 2323). Isolated from soil sample SS 25096. 13 Sep 2010. USA: Dawson County, Nebraska. N 40.743166, W 100.052267.
- 12105 DW Roberts (DWR 2324). Isolated from soil sample SS 23557. 9 Aug 2010. USA: Lander County, Nevada. N 40.846452, W 116.91237.
- 12106 DW Roberts (DWR 2325). Isolated from soil sample SS 25059. 13 Sep 2010. USA: Loup County, Nebraska. N 41.769945, W 99.58007.
- 12107 DW Roberts (DWR 2326). Isolated from soil sample SS 26289. 2 Aug 2010. USA: Chouteau County, Montana. N 47.991639, W 111.130971.
- 12108 DW Roberts (DWR 2327). Isolated from soil sample SS 26289. 2 Aug 2010. USA: Chouteau County, Montana. N 47.991639, W 111.130971.
- 12109 DW Roberts (DWR 2328). Isolated from soil sample SS 25298. 13 Sep 2010. USA: Garfield County, Nebraska. N 41.877381, W 98.937662.
- 12110 DW Roberts (DWR 2329). Isolated from soil sample SS 24132. 16 Aug 2010. USA: Camas County, Idaho. N 43.430856, W 114.879507.
- 12111 DW Roberts (DWR 2330). Isolated from soil sample SS 22103. 20 Jul 2010. USA: Furnas County, Nebraska. N 40.226451, W 99.780704.
- 12112 DW Roberts (DWR 2331). Isolated from soil sample SS 25094. 13 Sep 2010. USA: Dawson County, Nebraska. N 40.742904, W 100.147744.
- 12113 DW Roberts (DWR 2332). Isolated from soil sample SS 25473. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.180655, W 101.037032.
- 12114 DW Roberts (DWR 2333). Isolated from soil sample SS 24283. 5 Aug 2010. USA: Platte County, Wyoming. N 42.041537, W 105.134366.
- 12115 DW Roberts (DWR 2334). Isolated from soil sample SS 26856. 13 May 2011. USA: Maricopa County, Arizona. N 33.23119, W 112.77611.
- 12116 DW Roberts (DWR 2335). Isolated from soil sample SS 24307. 27 Jul 2010. USA: Big Horn County, Wyoming. N 44.387393, W 108.433066.
- 12119 DW Roberts (DWR 2338). Isolated from soil sample SS 25477. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.322525, W 101.231835.
- 12120 DW Roberts (DWR 2340). Isolated from soil sample SS 26330. 29 Jul 2010. USA: Texas.
- 12122 DW Roberts (DWR 2342). Isolated from soil sample SS 26328. 29 Jul 2010. USA: Texas.
- 12123 DW Roberts (DWR 2343). Isolated from soil sample SS 23488. 21 Jul 2010. USA: Elko County, Nevada. N 41.911242, W 114.708732.
- 12124 DW Roberts (DWR 2344). Isolated from soil sample SS 23683. 19 Aug 2010. USA: Lea County, New Mexico. N 33.32974, W 103.31833.
- 12125 DW Roberts (DWR 2345). Isolated from soil sample SS 26142. 28 Jul 2010. USA: Garfield County, Montana. N 47.517233, W 106.718607.
- 12126 DW Roberts (DWR 2346). Isolated from soil sample SS 24318. 29 Jul 2010. USA: Big Horn County, Wyoming. N 44.264516, W 107.579314.
- 12127 DW Roberts (DWR 2347). Isolated from soil sample SS 24312. 28 Jul 2010. USA: Platte County, Wyoming. N 41.89983, W 105.17213.
- 12128 DW Roberts (DWR 2348). Isolated from soil sample SS 24401. 28 Jul 2010. USA: Campbell County, Wyoming. N 43.924602, W 105.265479.
- 12129 DW Roberts (DWR 2349). Isolated from soil sample SS 24420. 4 Aug 2010. USA: Park County, Wyoming. N 44.466728, W 109.465717.
- 12130 DW Roberts (DWR 2350). Isolated from soil sample SS 24016. 3 Jun 2010. USA: Ziebach County, South Dakota. N 44.9328, W 101.44.
- 12131 DW Roberts (DWR 2351). Isolated from soil sample SS 24477. 16 Jun 2010. USA: Grant County, North Dakota. N 46.574271, W 101.4491.
- 12132 DW Roberts (DWR 2352). Isolated from soil sample SS 24012. 2 Jun 2010. USA: Ziebach County, South Dakota. N 44.7923, W 101.59105.
- 12133 DW Roberts (DWR 2353). Isolated from soil sample SS 24458. 21 Jun 2010. USA: McKenzie County, North Dakota. N 47.614531, W 103.94557.
- 12134 DW Roberts (DWR 2354). Isolated from soil sample SS 24385. 26 Jul 2010. USA: Converse County, Wyoming. N 43.42169, W 105.01971.
- 12135 DW Roberts (DWR 2355). Isolated from soil sample SS 25245. 13 Sep 2010. USA: Lincoln County, Nebraska. N 40.8719, W 100.453766.
- 12136 DW Roberts (DWR 2356). Isolated from soil sample SS 25695. 29 Jul 2010. USA: Nebraska.
- 12137 DW Roberts (DWR 2357). Isolated from soil sample SS 25789. 18 Aug 2010. USA: Sublette County, Wyoming. N 42.929368, W 109.719182.

- 12138 DW Roberts (DWR 2358). Isolated from soil sample SS 25422. 14 Sep 2010. USA: Arthur County, Nebraska. N 41.61575, W 101.692497.
- 12139 DW Roberts (DWR 2359). Isolated from soil sample SS 25286. 13 Sep 2010. USA: Knox County, Nebraska. N 42.53189, W 98.267687.
- 12140 DW Roberts (DWR 2368). Isolated from soil sample SS 24255. 9 Aug 2010. USA: Millard County, Utah. N 39.2505, W 112.4105.
- 12141 DW Roberts (DWR 2369). Isolated from soil sample SS 27858. 21 Apr 2011. USA: Maricopa County, Arizona. N 33.45163, W 111.74131.
- 12142 DW Roberts (DWR 2370). Isolated from soil sample SS 26797. 26 Jul 2010. USA: McKenzie County, North Dakota. N 47.476037, W 103.479367.
- 12143 DW Roberts (DWR 2371). Isolated from soil sample SS 26362. 13 Sep 2010. USA: Nebraska.
- 12144 DW Roberts (DWR 2372). Isolated from soil sample SS 26444. 9 Sep 2010. USA: Brown County, Nebraska. N 42.217802, W 100.092458.
- 12145 DW Roberts (DWR 2373). Isolated from soil sample SS 26679. 27 Jul 2010. USA: Baker County, Oregon. N 44.81095, W 117.74345.
- 12146 DW Roberts (DWR 2374). Isolated from soil sample SS 20223. 30 Jun 2010. USA: Maricopa County, Arizona. N 33.74982, W 112.2851.
- 12147 DW Roberts (DWR 2376). Isolated from soil sample SS 25593. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.450294, W 100.610335.
- 12148 DW Roberts (DWR 2377). Isolated from soil sample SS 25912. 11 Aug 2010. USA: Dawes County, Nebraska. N 42.770365, W 103.044088.
- 12149 DW Roberts (DWR 2378). Isolated from soil sample SS 26944. 11 May 2011. USA: Maricopa County, Arizona. N 33.29037, W 112.78524.
- 12150 DW Roberts (DWR 2379). Isolated from soil sample SS 24768. 20 Aug 2010. USA: Maricopa County, Arizona. N 33.22122, W 111.68881.
- 12151 DW Roberts (DWR 2380). Isolated from soil sample SS 26165. 10 Aug 2010. USA: Teton County, Montana. N 47.833469, W 111.43031.
- 12152 DW Roberts (DWR 2381). Isolated from soil sample SS 24545. 14 Jun 2010. USA: McKenzie County, North Dakota. N 47.616155, W 103.15898.
- 12153 DW Roberts (DWR 2382). Isolated from soil sample SS 25581. 14 Sep 2010. USA: Cherry County, Nebraska. N 42.31636, W 100.218693.
- 12154 DW Roberts (DWR 2383). Isolated from soil sample SS 25928. 12 Aug 2010. USA: Dawes County, Nebraska. N 42.559213, W 103.013363.
- 12156 DW Roberts (DWR 2385). Isolated from soil sample SS 26690. 28 Jul 2010. USA: Baker County, Oregon. N 44.911464, W 117.673965.
- 12157 DW Roberts (DWR 2392). Isolated from soil sample SS 24760. 20 Aug 2010. USA: Maricopa County, Arizona. N 33.22126, W 111.68853.
- 12158 DW Roberts (DWR 2393). Isolated from soil sample SS 27465. 19 Apr 2011. USA: Maricopa County, Arizona. N 33.66675, W 111.67854.
- 12159 DW Roberts (DWR 2394). Isolated from soil sample SS 22098. 21 Jul 2010. USA: Furnas County, Nebraska. N 40.24425, W 100.006112.
- 12160 DW Roberts (DWR 2395). Isolated from soil sample SS 26802. 4 Aug 2010. USA: McKenzie County, North Dakota. N 47.827493, W 103.864465.
- 12161 DW Roberts (DWR 2396). Isolated from soil sample SS 25212. 13 Sep 2010. USA: Garden County, Nebraska. N 41.453266, W 102.227163.
- 12162 DW Roberts (DWR 2397). Isolated from soil sample SS 26814. 10 Aug 2010. USA: McKenzie County, North Dakota. N 47.588047, W 103.827014.
- 12165 I Erper (TR-55-3). Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Rec'd 3 Jun 2013. Turkey.
- 12183 DW Roberts (DWR 2404). Isolated from soil sample SS 25210. 13 Sep 2010. USA: Garden County, Nebraska. N 41.456487, W 102.140963.
- 12184 DW Roberts (DWR 2405). Isolated from soil sample SS 25580. 31 Aug 2010. USA: Scotts Bluff County, Nebraska. N 41.856859, W 103.908883.
- 12185 DW Roberts (DWR 2406). Isolated from soil sample SS 26804. 5 Aug 2010. USA: McKenzie County, North Dakota. N 47.770262, W 103.93551.
- 12186 DW Roberts (DWR 2407). Isolated from soil sample SS 23710. 24 Aug 2010. USA: Pend Oreille County, Washington. N 48.690289, W 117.410623.
- 12187 DW Roberts (DWR 2408). Isolated from soil sample SS 23619. 10 Aug 2010. USA: Elko County, Nevada. N 41.963838, W 115.541857.
- 12188 DW Roberts (DWR 2409). Isolated from soil sample SS 23545. 3 Aug 2010. USA: Washoe County, Nevada. N 40.722008, W 119.56075.
- 12189 DW Roberts (DWR 2410). Isolated from soil sample SS 25341. 13 Sep 2010. USA: Custer County, Nebraska. N 41.194723, W 99.377805.
- 12191 DW Roberts (DWR 2412). Isolated from soil sample SS 22118. 14 Jul 2010. USA: Gosper County, Nebraska. N 40.441993, W 99.681392.
- 12192 DW Roberts (DWR 2414). Isolated from soil sample SS 25187. 13 Sep 2010. USA: Rock County, Nebraska. N 42.717231, W 99.402792.
- 12193 DW Roberts (DWR 2415). Isolated from soil sample SS 24320. 19 Jul 2010. USA: Hot Springs County, Wyoming. N 43.84921, W 108.3728.
- 12194 DW Roberts (DWR 1353). Rec'd 30 Apr 2012.
- 12196 ST Jaronski (ND03B). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12197 ST Jaronski (ND05). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".

- 12198 ST Jaronski (ND06B). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12199 ST Jaronski (ND07). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12200 ST Jaronski (ND08). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12201 ST Jaronski (ND09). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12202 ST Jaronski (ND10). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12203 ST Jaronski (ND12). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota.
- 12204 ST Jaronski (ND13). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12205 ST Jaronski (ND17). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12206 ST Jaronski (ND22A). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12207 ST Jaronski (ND27). *Aulocara elliotti* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12208 ST Jaronski (MT34). *Melanoplus confusus* [Orthoptera: Acrididae]. 14 Sep 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12209 ST Jaronski (MT44). *Melanoplus* sp. [Orthoptera: Acrididae]. 14 Sep 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12210 ST Jaronski (MT47). *Melanoplus confusus* [Orthoptera: Acrididae]. 14 Sep 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12211 ST Jaronski (MT50). *Melanoplus confusus* [Orthoptera: Acrididae]. 14 Sep 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12212 ST Jaronski (KS01). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12213 ST Jaronski (KS19A). *Aulocara elliotti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12214 ST Jaronski (KS19B). *Aulocara elliotti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12215 ST Jaronski (KS29). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12216 ST Jaronski (KS32). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12217 ST Jaronski (KS33). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12218 ST Jaronski (KS38). *Melanoplus confusus* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12219 ST Jaronski (KS44). *Phoetaliotes nebrascensis* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12220 ST Jaronski (KS49). *Melanoplus dawsonii* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12221 ST Jaronski (KS50C). *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12222 ST Jaronski (KS51). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12223 ST Jaronski (KS52). *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12224 ST Jaronski (KS54). *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12225 ST Jaronski (KS55). *Melanoplus* sp. [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12226 ST Jaronski (KS56A). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".

- 12227 ST Jaronski (KS56C). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12228 ST Jaronski (KS57). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12229 ST Jaronski (KS58). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12230 ST Jaronski (KS59). *Melanoplus dawsonii* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12231 ST Jaronski (KS60C). *Melanoplus infantilis* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12232 ST Jaronski (KS61). *Aulocara ellioti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12233 ST Jaronski (KS62). *Aulocara ellioti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12234 ST Jaronski (KS63). *Aulocara ellioti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12235 ST Jaronski (KS64B). *Aulocara ellioti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12236 ST Jaronski (KS64C). *Aulocara ellioti* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12237 ST Jaronski (KS65). *Melanoplus dawsonii* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12238 ST Jaronski (KS66). *Melanoplus dawsonii* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12239 ST Jaronski (KS68). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 3 Sep 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12249 AE Hajek (425). *Sirex noctilio* [Hymenoptera: Siridae] from barrel HC 22-8. 24 Jul 2012. USA: Hills Creek State Park, Tioga County, Pennsylvania.
- 12460 P Shahrestani and JD Vandenberg. 4 Dec 2013. USA: USDA ARS, R. W. Holley Center for Agriculture and Health, Ithaca, New York. Re-isolate of ARSEF 8246 following passage through *Drosophila melanogaster* [Diptera: Drosophilidae].
- 12573 SP Wraight (HI-3A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12574 SP Wraight (HI-6). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12575 SP Wraight (HI-8). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12576 SP Wraight (HI-12A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12577 SP Wraight (HI-14). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12578 SP Wraight (HI-15). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12579 SP Wraight (HI-16). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12580 SP Wraight (HI-18). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator.*
- 12581 SP Wraight (HI-20A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Ma-



- 12600 SP Wraight (HI-65A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 30 Apr 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator*.
- 12601 SP Wraight (HI-67). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Apr 2014. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. N 19.43122, W 155.89108. **RESTRICTED ACCESS:** *contact Curator*.
- 12602 SP Wraight (HI-68). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Onaka Farm, southwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. N 19.43072, W 155.89090. **RESTRICTED ACCESS:** *contact Curator*.
- 12603 SP Wraight (HI-70). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 18 Apr 2014. USA: OK Farms, north field, Amaulu Road, Hilo, Hawai'i. N 19.72794, W 155.11320. **RESTRICTED ACCESS:** *contact Curator*.
- 12604 SP Wraight (HI-72). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12605 SP Wraight (HI-74). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12606 SP Wraight (HI-75). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12607 SP Wraight (HI-79). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12608 SP Wraight (HI-81). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12609 SP Wraight (HI-84). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12610 SP Wraight (HI-90). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Apr 2014. USA: Kirkland Farm, northeast field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43493, W 155.87320. **RESTRICTED ACCESS:** *contact Curator*.
- 12611 SP Wraight (HI-99). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator*.
- 12612 SP Wraight (HI-109). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator*.
- 12613 SP Wraight (HI-121). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12614 SP Wraight (HI-122). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12615 SP Wraight (HI-123). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 14 Apr 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12616 SP Wraight (HI-204). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator*.
- 12617 SP Wraight (HI-205). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamelahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator*.
- 12618 SP Wraight (HI-206B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamelahoa Highway, Captain Cook, District of South



- Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12619 SP Wraight (HI-211). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12620 SP Wraight (HI-805). Adult, *Xylosandrus compactus* [Coleoptera: Curculionidae: Scolytinae] from feral grove of *Coffea arabica* L., coffee. 7 May 2014. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.87710. **RESTRICTED ACCESS:** *contact Curator.*
- 12805 SP Wraight (HI-514). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12806 SP Wraight (HI-528). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12807 SP Wraight (HI-548). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12808 SP Wraight (HI-552). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12809 SP Wraight (HI-685). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12810 SP Wraight (HI-695). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator.*
- 12811 SP Wraight (HI-711). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12812 SP Wraight (HI-720). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12813 SP Wraight (HI-751). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 7 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator.*
- 12814 SP Wraight (HI-783). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12815 SP Wraight (HI-785). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12816 SP Wraight (HI-793). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 12821 SP Wraight (HI-519). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932.
- 12822 [Mycotech Corporation Bb1200, KOR] SP Wraight. *Plutella xylostella* [Lepidoptera: Plutellidae]. Rec'd 23 Feb 2015. Republic of Korea. From technical powder produced by Mycotech Corporation, November 1999. **RESTRICTED ACCESS:** *contact Curator.*
- 12823 [Mycotech Corporation Bb1200B] SP Wraight. Laboratory subculture from Mycotech Bb1200 (ARSEF 12822) From technical powder produced by SP Wraight, March 2000. Rec'd 23 Feb 2015. **RESTRICTED ACCESS:** *contact Curator.*
- 12824 [Mycotech Corporation Bb1200C] SP Wraight. Laboratory subculture from Mycotech Bb1200 (ARSEF 12822) From technical powder produced by SP Wraight, March 2000. Rec'd 23 Feb 2015. **RESTRICTED ACCESS:** *contact Curator.*
- 12825 [Mycotech Corporation Bb1200D] SP Wraight. Laboratory subculture from Mycotech Bb1200 (ARSEF 12822) From technical powder produced by SP Wraight, March 2000. Rec'd 23 Feb 2015. **RESTRICTED ACCESS:** *contact Curator.*

- 12856 [IP 420] Larva, 28 Jun 2014. RPPN SB, near Ecotourism. **RESTRICTED ACCESS:** contact Curator.
- 12891 SP Wraight (HI-520). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** contact Curator.
- 12892 SP Wraight (HI-539). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** contact Curator.
- 12893 SP Wraight (HI-516). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 May 2014. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** contact Curator.
- 12894 SP Wraight (HI-742). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 21 May 2014. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** contact Curator.
- 12957 M Barta (IK10) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 5 Apr 2012. Slovakia: Michalovo. N 48.99945, E 19.76410. **RESTRICTED ACCESS:** contact Curator.
- 12958 M Barta (IK31) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 9 Apr 2012. Slovakia: Zbojská. N 48.74650, E 19.84096.
- 12960 M Barta (IK44) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 25 Apr 2012. Slovakia: Nebrová. N 49.11863, E 18.12467.
- 12961 M Barta (IK57) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 12 May 2012. Slovakia: Oravská Polhora. N 49.52668, E 19.46842.
- 12962 M Barta (MK8) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 7 May 2012. Slovakia: Vysoké Tatry-Start. N 49.17913, E 20.25763.
- 12964 M Barta (MK16) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 4 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.
- 12965 M Barta (MK26) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 10 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.
- 12966 M Barta (MK39) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 14 May 2012. Slovakia: Stará Lesná. N 49.13860, E 20.29696.
- 12967 M Barta (MK124) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 16 May 2012. Slovakia: Branisko. N 49.02545, E 20.86159.
- 12968 M Barta (MK129) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 16 May 2012. Slovakia: Spissky Hrhov. N 48.99840, E 20.63610. **RESTRICTED ACCESS:** contact Curator.
- 12970 M Barta (MK207) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Hnilčík. N 48.85239, E 20.57028.
- 12971 M Barta (MK236) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Mlynky. N 48.85187, E 20.43762.
- 12973 M Barta (MK274) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Oravice. N 49.26698, E 19.74311.
- 12974 M Barta (MK299) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Oravice. N 49.31831, E 19.74380.
- 12975 M Barta (MK311) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Pod Sivým vrchom. N 49.20911, E 19.64951.
- 12977 M Barta (MK336) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Bobrovec. N 49.28109, E 19.75058.
- 12978 M Barta (MK341) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Rackova dolina. N 49.13691, E 19.79901.
- 12979 M Barta (MK380) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 1 Jul 2012. Slovakia: Pod Chocom, Lúcky. N 49.13844, E 19.39812.
- 12980 M Barta (MK387) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 1 Jul 2012. Slovakia: Demänovská dolina. N 49.00610, E 19.56816.
- 13402 [SP Wraight PR TA-1] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles farm, Adjuntas, Puerto Rico.
- 13403 [SP Wraight PR TA-4] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles farm, Adjuntas, Puerto Rico.
- 13404 [SP Wraight PR TP-5] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 22 Sep 2016. USA: Tres Pecachos farm, Jayuya, Puerto Rico.
- 13405 [SP Wraight PR TP-7] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 22 Sep 2016. USA: Tres Pecachos farm, Jayuya, Puerto Rico.
- 13430 *Megacocta cribraria* [Hemiptera: Plataspidae]. 5 Nov 2015. USA: Suffolk County, Virginia. 36.781478, -76.577117.
- 13506 [A Khan palm weevil Beauveria] *Rhynchophorus palmarum* [Coleoptera: Curculionidae]. Rec'd 6 Apr 2018. Trinidad.
- 13515 [SP Wraight HI-1753] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Jul 2015. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.

- 13516 [SP Wraight HI-1679A] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13517 [SP Wraight HI-1679b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13518 [SP Wraight HI-1686a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13519 [SP Wraight HI-1743b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13520 [SP Wraight HI-1747] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra Farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13521 [SP Wraight HI-1748] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: Obra farm, Ka'u, Island of Hawaii, Hawaii. 19.19927, -155.52651.
- 13522 [SP Wraight HI-1647c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13523 [SP Wraight HI-1657c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13524 [SP Wraight HI-1661a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13525 [SP Wraight HI-1661b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 29 Mar 2016. USA: Goschke farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.29130, -155.52651.
- 13526 [SP Wraight HI-1047] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13527 [SP Wraight HI-1048] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13528 [SP Wraight HI-1049] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13529 [SP Wraight HI-1052] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, South Kona, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13530 [SP Wraight HI-1055] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 7 Apr 2015. USA: Smith farm, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13531 [SP Wraight HI-1063] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Apr 2015. USA: Onaka farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43151, -155.89051.
- 13532 [SP Wraight HI-1072] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Apr 2015. USA: Onaka farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43151, -155.89051.
- 13533 [SP Wraight HI-1198] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Onaka farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43122, -155.89108.
- 13534 [SP Wraight HI-1199] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Onaka farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. 19.43122, -155.89108.
- 13535 [SP Wraight HI-1117] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Apr 2015. USA: Smith Farm, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13536 [SP Wraight HI-1534] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher farm, Island of Hawaii, Hawaii.
- 13537 [SP Wraight HI-G6] Isolated from soil on dodine medium soil beneath coffee trees. Rec'd 30 May 2018. USA: Goschke Farm 13537, Captain Cook, District of South Kona, Hawai'i. 19.2915130, -155.86602.
- 13538 [SP Wraight HI-G6] Isolated from soil on dodine medium soil beneath coffee trees. Rec'd 30 May 2018. USA: Goschke Farm 13537, Captain Cook, District of South Kona, Hawai'i. 19.2915130, -155.86602.
- 13539 [SP Wraight HI-G8] Isolated from soil on dodine medium soil beneath coffee trees. Rec'd 30 May 2018. USA: Goschke Farm 13537, Captain Cook, District of South Kona, Hawai'i. 19.2915130, -155.86602.
- 13540 [SP Wraight G30] Isolated from soil on dodine medium soil beneath coffee trees. Rec'd 30 May 2018. USA: Goschke Farm 13537, Captain Cook, District of South Kona, Hawai'i. 19.2915130, -155.86602.
- 13541 [SP Wraight PR-TA6] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 Sep 2016. USA: Tres Angeles Farm, Adjuntas, Puerto Rico.
- 13542 [SP Wraight HI-1536] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher farm, Island of Hawaii, Hawaii.

- 13543 [SP Wraight HI-1541] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz farm, Island of Hawaii, Hawaii.
- 13544 [SP Wraight HI-1543] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz farm, Island of Hawaii, Hawaii.
- 13545 [SP Wraight HI-1545] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kunitake farm, Island of Hawaii, Hawaii.
- 13546 [SP Wraight HI-1784] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 1 Apr 2016. USA: Shatz farm, Island of Hawaii, Hawaii.
- 13547 [SP Wraight HI-1785] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 1 Apr 2016. USA: Shatz farm, Island of Hawaii, Hawaii.
- 13548 [SP Wraight HI-1827] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13549 [SP Wraight HI-1828] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13550 [SP Wraight HI-1380] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13551 [SP Wraight HI-1832] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13552 [SP Wraight HI-1836] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Apr 2016. USA: Sugiyama farm, Island of Hawaii, Hawaii.
- 13553 [SP Wraight HI-2688] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Goschke farm, Captain Cook, District of South Kona, Hawai'i.
- 13554 [SP Wraight HI-2720a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13555 [SP Wraight HI-2720b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13556 [SP Wraight HI-2721] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13557 [SP Wraight HI-2722a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13558 [SP Wraight HI-2722b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13559 [SP Wraight HI-2724] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 18 May 2016. USA: Manuka farm, Island of Hawaii, Hawaii.
- 13560 [SP Wraight HI-2745] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13561 [SP Wraight HI-2748a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13562 [SP Wraight HI-2748b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13563 [SP Wraight HI-2752] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Ah-San farm, Island of Hawaii, Hawaii.
- 13564 [SP Wraight HI-2754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: D. Dacalio farm, Island of Hawaii, Hawaii.
- 13565 [SP Wraight HI-2754] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: D. Dacalio farm, Island of Hawaii, Hawaii.
- 13566 [SP Wraight HI-2760] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13567 [SP Wraight HI-2761] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 21 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13568 [SP Wraight HI-2903a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13569 [SP Wraight HI-2903b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13572 [SP Wraight HI-2904] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13573 [SP Wraight HI-2906] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 26 May 2016. USA: Matsui farm, Island of Hawaii, Hawaii.
- 13574 [SP Wraight HI-1399] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13575 [SP Wraight HI-1400] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13576 [SP Wraight HI-1408b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 6 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13577 [SP Wraight HI-1409b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 6 May 2015. USA: Sullivan farm, Island of Hawaii, Hawaii.
- 13578 [SP Wraight HI-1766] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13579 [SP Wraight HI-1768] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13580 [SP Wraight HI-1769a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.

- 13581 [SP Wraight HI-1769b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13582 [SP Wraight HI-1776b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13583 [SP Wraight HI-1776c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13584 [SP Wraight HI-1777b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13585 [SP Wraight HI-1777c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13586 [SP Wraight HI-1780b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13587 [SP Wraight HI-1780c] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13588 [SP Wraight HI-1781b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 31 Mar 2016. USA: J. Dacalio farm, Island of Hawaii, Hawaii.
- 13589 [SP Wraight HI-1394] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 4 May 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43253, -155.86915.
- 13590 [SP Wraight HI-1422] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13591 [SP Wraight HI-1426] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13592 [SP Wraight HI-1559b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 8 Mar 2016. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43256, -155.86946.
- 13593 [SP Wraight HI-1427] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 11 May 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13594 [SP Wraight HI-1565b] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 8 Mar 2016. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. 19.43257, -155.86932.
- 13596 [SP Wraight HI-1533a] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kelleher Farm, Island of Hawaii, Hawaii.
- 13597 [SP Wraight HI-1540] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Koontz Farm, Island of Hawaii, Hawaii.
- 13598 [SP Wraight HI-1546] Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 2 Mar 2016. USA: Kunitake Farm, Island of Hawaii, Hawaii.
- 13624 Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 12 Jul 2018. USA: Perkins County, Nebraska.
- 13666 [M Burjanadze MB-005] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13813 [CJ Geden L90] *Musca domestica* [Diptera: Muscidae]. Summer 1990. USA: Lockwood Farm, Cayuga County, New York.
- 13815 [E Clifton ; AE Hajek SLF#5] Adult, *Lycorma delicatula* [Hemiptera: Fulgoridae]. 10 Sep 2018. USA: Berks County, Pennsylvania. N 40.439288 W -75.642323.
- 13816 [E Clifton ; AE Hajek SLF#21] Adult, *Lycorma delicatula* [Hemiptera: Fulgoridae]. 10 Sep 2018. USA: Berks County, Pennsylvania. N 40.439288 W -75.642323.
- 13817 [E Clifton ; AE Hajek SLF#67] Adult, *Lycorma delicatula* [Hemiptera: Fulgoridae]. 10 Sep 2018. USA: Berks County, Pennsylvania. N 40.439288 W -75.642323.

***Beauveria bassiana sensu lato*** (Balsamo-Crivelli)  
Vuillemin  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae

- 12252 ST Jaronski (11D001). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12253 ST Jaronski (11D002). *Aulocara elliotti* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12254 ST Jaronski (11D004). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12255 ST Jaronski (11D005). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".

- 12256 ST Jaronski (11D006). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12257 ST Jaronski (11D007). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12258 ST Jaronski (11D008). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12259 ST Jaronski (11D009). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12260 ST Jaronski (11D010). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12261 ST Jaronski (11D011). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12262 ST Jaronski (11D012). *Aulocara femoratum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12263 ST Jaronski (11D013). *Aulocara ellioti* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12264 ST Jaronski (11D014). *Melanoplus confusus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12265 ST Jaronski (11D015). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12266 ST Jaronski (11D016). *Aulocara femoratum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12267 ST Jaronski (11D017). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12268 ST Jaronski (11D018). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12269 ST Jaronski (11D019). *Aulocara ellioti* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12270 ST Jaronski (11D020). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12271 ST Jaronski (11D021). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12272 ST Jaronski (11D022). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12273 ST Jaronski (11D023). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12274 ST Jaronski (11KS001). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12275 ST Jaronski (11KS002). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12276 ST Jaronski (11KS003). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12277 ST Jaronski (11KS004). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12278 ST Jaronski (11KS005). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12279 ST Jaronski (11KS006). *Aulocara ellioti* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12280 ST Jaronski (11KS007). *Aulocara femoratum* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12281 ST Jaronski (11KS008). *Aulocara femoratum* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12282 ST Jaronski (11KS009). *Melanoplus confusus* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12283 ST Jaronski (11KS010). *Hadrotettix* sp. [Orthoptera: Acrididae]. 26 Aug 2011. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".









- 12390 ST Jaronski (11SD022). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12391 ST Jaronski (11SD023). *Melanoplus confusus* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12392 ST Jaronski (11SD024). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 29 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12393 ST Jaronski (11SD025). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 26 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12394 ST Jaronski (11SD028). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12395 ST Jaronski (11SD029). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12397 ST Jaronski (MT06-1). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12398 ST Jaronski (MT11). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12399 ST Jaronski (MT13A-2). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12400 ST Jaronski (MT13C). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12401 ST Jaronski (MT14-1). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12402 ST Jaronski (MT17-1). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12403 ST Jaronski (MT22). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12404 ST Jaronski (MT25). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12405 ST Jaronski (MT29). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12406 ST Jaronski (MT35). *Melanoplus confusus* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12407 ST Jaronski (MT55-3). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12408 ST Jaronski (ND23-1). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Sidney, Montana. N 47° 38' 49.51", W 103° 47' 47.53".
- 12410 ST Jaronski (ND32-3). *Melanoplus dawsonii* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12411 ST Jaronski (KS12-1). *Melanoplus infantilis* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12412 ST Jaronski (KS24-1). *Aulocara ellioti* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12413 ST Jaronski (KS24-3). *Aulocara ellioti* [Orthoptera: Acrididae]. 20 Aug 2010. USA: Severson Ranch, McKenzie County, North Dakota. N 47° 38' 26.87", W 103° 57' 24.57".
- 12414 ST Jaronski (24). *Ageneotettix deorum* [Orthoptera: Acrididae]. 28 Jul 2000. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12415 ST Jaronski (28). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 26 Jul 2000. USA: Wold Farm, McKenzie County, North Dakota. N 48° 2.302', W 103° 9.693'.
- 12416 ST Jaronski (29). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 26 Jul 2000. USA: Wold Farm, McKenzie County, North Dakota. N 48° 2.302', W 103° 9.693'.
- 12417 ST Jaronski (31). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Jul 2000. USA: USDA ARS Fort Keogh, Miles City, Montana. N 46° 22.136', W 105° 50.204'.
- 12418 ST Jaronski (33). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 26 Jul 2000. USA: Wold Farm, McKenzie County, North Dakota. N 48° 2.302', W 103° 9.693'.
- 12419 ST Jaronski (44). *Melanoplus* sp. [Orthoptera: Acrididae]. 28 Jul 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12420 ST Jaronski (45). *Melanoplus* sp. [Orthoptera: Acrididae]. 28 Jul 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12421 ST Jaronski (46). *Melanoplus* sp. [Orthoptera: Acrididae]. 28 Jul 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12422 ST Jaronski (54). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 6 Jul 2000. USA: USDA ARS Fort Keogh, Miles City, Montana. N 46° 22.136', W 105° 50.204'.

- 12423 ST Jaronski (56). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 26 Jul 2000. USA: Wold Farm, McKenzie County, North Dakota. N 48° 2.302', W 103° 9.693'.
- 12424 ST Jaronski (57). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 20 Jul 2000. USA: USDA ARS Fort Keogh, Miles City, Montana. N 46° 22.136', W 105° 50.204'.
- 12425 ST Jaronski (63). *Ageneotettix deorum* [Orthoptera: Acrididae]. 24 Jul 2000. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12426 ST Jaronski (68). *Melanoplus* sp. [Orthoptera: Acrididae]. 14 Jul 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12427 ST Jaronski (87). *Melanoplus* sp. [Orthoptera: Acrididae]. 8 Aug 2000. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12428 ST Jaronski (95). *Melanoplus* sp. [Orthoptera: Acrididae]. 10 Aug 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12429 ST Jaronski (105). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 10 Aug 2000. USA: USDA ARS Fort Keogh, Miles City, Montana. N 46° 22.136', W 105° 50.204'.
- 12430 ST Jaronski (109). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 11 Aug 2000. USA: Sather Lake, McKenzie County, North Dakota. N 47° 38' 49.51", W 103° 47' 47.53".
- 12431 ST Jaronski (135). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 31 Aug 2000. USA: Wold Farm, McKenzie County, North Dakota. N 48° 2.302', W 103° 9.693'.
- 12432 ST Jaronski (46A). *Ageneotettix deorum* [Orthoptera: Acrididae]. 28 Jul 2000. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12434 ST Jaronski (11AW452). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 20 Jun 2011. USA: Roosevelt County, Montana. N 48.01999, W 104.08204.
- 12435 ST Jaronski (11AW479). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 20 Jun 2011. USA: Richland County, Montana. N 47.74546, W 104.12953.
- 12436 ST Jaronski (12AW323). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.64180, W 104.19949.
- 12437 ST Jaronski (12AW332). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.78444, W 104.08774.
- 12438 ST Jaronski (12AW336). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Roosevelt County, Montana. N 48.01487, W 103.81691.
- 12439 ST Jaronski (12AW457). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12440 ST Jaronski (12AW457-1). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12441 ST Jaronski (12AW457-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12442 ST Jaronski (12AW457-3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.495, W 104.295.
- 12443 ST Jaronski (12AW491-1). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.39831, W 104.38053.
- 12444 ST Jaronski (12AW491-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Williams County, North Dakota. N 47.39831, W 104.38053.
- 12445 ST Jaronski (13AW336). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Roosevelt County, Montana. N 48.01487, W 103.81691.
- 12446 ST Jaronski (13AW340-1A). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: McKenzie County, North Dakota. N 47.95783, W 103.94684.
- 12447 ST Jaronski (13AW340-2). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: McKenzie County, North Dakota. N 47.95783, W 103.94684.
- 12448 ST Jaronski (13AW344). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana.
- 12449 ST Jaronski (13AW447). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.46772.
- 12450 ST Jaronski (13AW473). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.57947, W 104.26116.
- 12451 ST Jaronski (13AW483). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 Jun 2013. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12462 ST Jaronski (13WS15). *Cephus cinctus* [Hymenoptera: Cephidae]. 28 Aug 2013. USA: Devon, Montana.
- 12463 ST Jaronski (13WS16). *Cephus cinctus* [Hymenoptera: Cephidae]. 28 Aug 2013. USA: Devon, Montana.
- 12464 ST Jaronski (13WS17). *Cephus cinctus* [Hymenoptera: Cephidae]. 28 Aug 2013. USA: Devon, Montana.
- 12465 ST Jaronski (13WS18). *Cephus cinctus* [Hymenoptera: Cephidae]. 28 Aug 2013. USA: Devon, Montana.
- 12467 ST Jaronski (13WS20). *Cephus cinctus* [Hymenoptera: Cephidae]. 28 Aug 2013. USA: East Knee, Chouteau County, Montana.
- 12468 ST Jaronski (13WS22). *Cephus cinctus* [Hymenoptera: Cephidae]. 23 Sep 2013. USA: East Knee, Chouteau County, Montana.



- 12508 ST Jaronski (13WS61). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: East Knee, Patton Farm, Chouteau County, Montana. N 47 58.285, W 111 15.121.
- 12509 ST Jaronski (13WS62). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: East Knee, Patton Farm, Chouteau County, Montana. N 47 58.285, W 111 15.121.
- 12510 ST Jaronski (13WS63). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: East Knee, Patton Farm, Chouteau County, Montana. N 47 58.285, W 111 15.121.
- 12512 ST Jaronski (13WS65 [B]). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: Bjeland Farm, Conrad, Montana. N 48 12.306, W 111 30.380.
- 12513 ST Jaronski (13WS66). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: Bjeland Farm, Conrad, Montana. N 48 12.306, W 111 30.380.
- 12514 ST Jaronski (13WS67). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: East Knee, Patton Farm, Chouteau County, Montana. N 47 58.285, W 111 15.121.
- 12515 ST Jaronski (13WS68). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: East Knee, Patton Farm, Chouteau County, Montana. N 47 58.285, W 111 15.121.
- 12517 ST Jaronski (12AW323-4 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 6 Jun 2012. USA: Richland County, Montana. N 47.64180, W 104.19949.
- 12518 ST Jaronski (12AW462-1 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 8 Jun 2012. USA: Roosevelt County, Montana. N 48.01999, W 104.08204.
- 12519 ST Jaronski (12AW483-2 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12520 ST Jaronski (12AW483-5 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12521 ST Jaronski (12AW483-6 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12522 ST Jaronski (12AW483-8 f3). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 2012. USA: Richland County, Montana. N 47.91715, W 103.94075.
- 12525 ST Jaronski (13WS65 [A]). *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: Bjeland Farm, Conrad, Montana. N 48 12.306, W 111 30.380.
- 12526 ST Jaronski (MT12-1 [A]). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12527 ST Jaronski (MT12-1 [B]). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 28 Aug 2010. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12528 ST Jaronski (11D011A). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12529 ST Jaronski (11D014A). *Melanoplus confusus* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12530 ST Jaronski (11D016A). *Aulocara femoratum* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Dietz Ranch, Golden Valley County, North Dakota. N 46° 59' 42.51", W 103° 50' 10.20".
- 12531 ST Jaronski (11D024) or (11D02Y). Rec'd 7 Aug 2013.
- 12532 ST Jaronski (11KS042). Rec'd 7 Aug 2013.
- 12533 ST Jaronski (11L005B). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12534 ST Jaronski (11L016B). *Melanoplus sanguinipes* [Orthoptera: Acrididae]. 25 Aug 2011. USA: Lardy Ranch, Golden Valley County, North Dakota. N 47° 0' 3.80", W 103° 46' 1.16".
- 12535 ST Jaronski (11MT017B). *Melanoplus femurrubrum* [Orthoptera: Acrididae]. 29 Aug 2011. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12536 ST Jaronski (11SD030). Rec'd 7 Aug 2013.
- 12572 ST Jaronski (11MT018B). *Melanoplus bivittatus* [Orthoptera: Acrididae]. 29 Aug 2011. USA: Sidney, Montana. N 47° 43' 43.09", W 104° 11' 18.82".
- 12910 R Canhilal (195a). Isolated from soil sample collected beneath grass. 21 Nov 2012. Turkey: Adana.
- 12915 R Canhilal (307a). Isolated from soil sample collected beneath *Cucurbita* sp., squash. 21 Nov 2012. Turkey: Adana.
- 12916 R Canhilal (310). Isolated from soil sample collected beneath *Punica granatum* L., pomegranate. 21 Nov 2012. Turkey: Adana.
- 12920 ST Jaronski (14WS01). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12921 ST Jaronski (14WS03). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12922 ST Jaronski (14WS05). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12923 ST Jaronski (14WS06). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12924 ST Jaronski (14WS07). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12925 ST Jaronski (14WS08). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.

- 12926 ST Jaronski (14WS09). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12927 ST Jaronski (14WS10). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12928 ST Jaronski (14WS12). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12929 ST Jaronski (14WS13). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12930 ST Jaronski (14WS14). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12931 ST Jaronski (14WS17). *Cephus cinctus* [Hymenoptera: Cephidae]. 8 Dec 2014. USA: Saco, Montana. Site ID # SVS015. N 48.307147, W 111.930707.
- 12932 ST Jaronski (14WS18). *Cephus cinctus* [Hymenoptera: Cephidae]. 9 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma MT1078.1. N 48.075547, W 110.45955.
- 12933 ST Jaronski (14WS19). *Cephus cinctus* [Hymenoptera: Cephidae]. 9 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma MT1078.2. N 48.075547, W 110.45955.
- 12934 ST Jaronski (14WS20). *Cephus cinctus* [Hymenoptera: Cephidae]. 9 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma MT1078.3. N 48.075547, W 110.45955.
- 12935 ST Jaronski (14WS21). *Cephus cinctus* [Hymenoptera: Cephidae]. 30 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # MSU Site 5. N 48.075547, W 110.45955.
- 12936 ST Jaronski (14WS22). *Cephus cinctus* [Hymenoptera: Cephidae]. 19 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma WB-Quake 3. N 48.075547, W 110.45955.
- 12937 ST Jaronski (14WS23). *Cephus cinctus* [Hymenoptera: Cephidae]. 19 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma WB-Quake 2. N 48.075547, W 110.45955.
- 12938 ST Jaronski (14WS24). *Cephus cinctus* [Hymenoptera: Cephidae]. 19 Jan 2015. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # Loma WB-Quake 1. N 48.075547, W 110.45955.
- 12939 ST Jaronski (14WS25). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # C. N 48.075547, W 110.45955.
- 12940 ST Jaronski (14WS26). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # S1. N 48.075547, W 110.45955.
- 12942 ST Jaronski (14WS28). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: MSU Wheat Variety Plots, Conrad, Montana. Site ID # R2&R3. N 48.075547, W 110.45955.
- 12943 ST Jaronski (14WS29). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12944 ST Jaronski (14WS30). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12945 ST Jaronski (14WS31). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12946 ST Jaronski (14WS32). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12947 ST Jaronski (14WS35). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12948 ST Jaronski (14WS36). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12949 ST Jaronski (14WS37). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12950 ST Jaronski (14WS38). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12951 ST Jaronski (14WS39). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12952 ST Jaronski (14WS40). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: Cullin Farms site, Hemingford, Nebraska. Site ID # NE06B. N 42.233125, W 103.014621.
- 12953 ST Jaronski (14WS41). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: C. Stoner farm, Hill County, Montana. Site ID # MT13. N 48.219439, W 111.505722.
- 12954 ST Jaronski (14WS42). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: C. Stoner farm, Hill County, Montana. Site ID # MT13. N 48.219439, W 111.505722.
- 12955 ST Jaronski (14WS43). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: C. Stoner farm, Hill County, Montana. Site ID # MT13. N 48.219439, W 111.505722.

- 12956 ST Jaronski (14WS44). *Cephus cinctus* [Hymenoptera: Cephidae]. Winter 2014. USA: C. Stoner farm, Hill County, Montana. Site ID # MT13. N 48.219439, W 111.505722.
- 12982 SP Wraight (HI-806). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12983 SP Wraight (HI-807A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12984 SP Wraight (HI-807B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12985 SP Wraight (HI-809). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12986 SP Wraight (HI-810). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12987 SP Wraight (HI-811). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] from feral grove of *Coffea arabica* L., coffee. 11 Mar 2015. USA: Mamalahoa Highway, Captain Cook, District of South Kona, Hawai'i. N 19.39038, W 155.8771. **RESTRICTED ACCESS:** *contact Curator*.
- 12988 SP Wraight (HI-815A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator*.
- 12989 SP Wraight (HI-815B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator*.
- 12990 SP Wraight (HI-816B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator*.
- 12991 SP Wraight (HI-818). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator*.
- 12992 SP Wraight (HI-819A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12993 SP Wraight (HI-819B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12994 SP Wraight (HI-820). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12995 SP Wraight (HI-821). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 3 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43257, W 155.86932. **RESTRICTED ACCESS:** *contact Curator*.
- 12996 SP Wraight (HI-822). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43256, W 155.86946. **RESTRICTED ACCESS:** *contact Curator*.
- 12997 SP Wraight (HI-823). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12998 SP Wraight (HI-824). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.
- 12999 SP Wraight (HI-825). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator*.





- N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 13019 SP Wraight (HI-848). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 13020 SP Wraight (HI-849). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 13046 SP Wraight (HI-850). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. N 19.43253, W 155.86915. **RESTRICTED ACCESS:** *contact Curator.*
- 13047 SP Wraight (HI-851). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-851. **RESTRICTED ACCESS:** *contact Curator.*
- 13048 SP Wraight (HI-852). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-852. **RESTRICTED ACCESS:** *contact Curator.*
- 13049 SP Wraight (HI-853). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-853. **RESTRICTED ACCESS:** *contact Curator.*
- 13050 SP Wraight (HI-855). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-855. **RESTRICTED ACCESS:** *contact Curator.*
- 13051 SP Wraight (HI-856). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-856. **RESTRICTED ACCESS:** *contact Curator.*
- 13052 SP Wraight (HI-859). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-859. **RESTRICTED ACCESS:** *contact Curator.*
- 13053 SP Wraight (HI-860). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 9 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13054 SP Wraight (HI-861). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13055 SP Wraight (HI-862). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. **RESTRICTED ACCESS:** *contact Curator.*
- 13056 SP Wraight (HI-863). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 11 Mar 2015. USA: Onaka Farm, northwest field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-863. **RESTRICTED ACCESS:** *contact Curator.*
- 13057 SP Wraight (HI-867). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-867. **RESTRICTED ACCESS:** *contact Curator.*
- 13058 SP Wraight (HI-868). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-868. **RESTRICTED ACCESS:** *contact Curator.*
- 13059 SP Wraight (HI-869). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-869. **RESTRICTED ACCESS:** *contact Curator.*
- 13060 SP Wraight (HI-870). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-870. **RESTRICTED ACCESS:** *contact Curator.*
- 13061 SP Wraight (HI-871). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-871. **RESTRICTED ACCESS:** *contact Curator.*
- 13062 SP Wraight (HI-872). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 19 Mar 2015. USA: Onaka Farm, northeast

- field, Honaunau Road, Captain Cook, District of South Kona, Hawai'i. HI-872. **RESTRICTED ACCESS:** *contact Curator.*
- 13063 SP Wraight (HI-873). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-873. **RESTRICTED ACCESS:** *contact Curator.*
- 13064 SP Wraight (HI-874). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-874. **RESTRICTED ACCESS:** *contact Curator.*
- 13065 SP Wraight (HI-875). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-875. **RESTRICTED ACCESS:** *contact Curator.*
- 13066 SP Wraight (HI-876). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-876. **RESTRICTED ACCESS:** *contact Curator.*
- 13067 SP Wraight (HI-877). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-877. **RESTRICTED ACCESS:** *contact Curator.*
- 13068 SP Wraight (HI-878). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-878. **RESTRICTED ACCESS:** *contact Curator.*
- 13069 SP Wraight (HI-879). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-879. **RESTRICTED ACCESS:** *contact Curator.*
- 13070 SP Wraight (HI-880). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-880. **RESTRICTED ACCESS:** *contact Curator.*
- 13071 SP Wraight (HI-881). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-881. **RESTRICTED ACCESS:** *contact Curator.*
- 13072 SP Wraight (HI-882A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-882A. **RESTRICTED ACCESS:** *contact Curator.*
- 13073 SP Wraight (HI-882B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-882B. **RESTRICTED ACCESS:** *contact Curator.*
- 13074 SP Wraight (HI-883). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-883. **RESTRICTED ACCESS:** *contact Curator.*
- 13075 SP Wraight (HI-884). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-884. **RESTRICTED ACCESS:** *contact Curator.*
- 13076 SP Wraight (HI-885). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-885. **RESTRICTED ACCESS:** *contact Curator.*
- 13077 SP Wraight (HI-886A). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-886A. **RESTRICTED ACCESS:** *contact Curator.*
- 13078 SP Wraight (HI-886B). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-886B. **RESTRICTED ACCESS:** *contact Curator.*
- 13079 SP Wraight (HI-887). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-887. **RESTRICTED ACCESS:** *contact Curator.*
- 13080 SP Wraight (HI-888). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-888. **RESTRICTED ACCESS:** *contact Curator.*
- 13081 SP Wraight (HI-889). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-889. **RESTRICTED ACCESS:** *contact Curator.*
- 13082 SP Wraight (HI-890). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-890. **RESTRICTED ACCESS:** *contact Curator.*
- 13083 SP Wraight (HI-891). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 13 Mar 2015. USA: OK Farms, Amauulu Road, Hilo, Hawai'i. HI-891. **RESTRICTED ACCESS:** *contact Curator.*
- 13084 SP Wraight (HI-892). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona,

- Hawai'i. HI-892. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13085 SP Wraight (HI-894). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-894. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13086 SP Wraight (HI-895). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-895. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13087 SP Wraight (HI-896). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 16 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-896. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13089 SP Wraight (HI-899). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, west field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-899. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13090 SP Wraight (HI-900). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, west field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-900. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13091 SP Wraight (HI-901). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, north field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-901. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13092 SP Wraight (HI-902). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-902. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13093 SP Wraight (HI-904). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, middle field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-904. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13094 SP Wraight (HI-905). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae] on *Coffea arabica* L., coffee. 22 Mar 2015. USA: Smith Farms, south field, Bruner Road, Captain Cook, District of South Kona, Hawai'i. HI-905. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13136 Rec'd 6 Aug 2015.
- 13137 Rec'd 6 Aug 2015.
- 13167 SR Sánchez Peña (200). *Bagrada hilaris* [Hemiptera: Pentatomidae]. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuilla.
- 13168 SR Sánchez Peña (194). *Bagrada hilaris* [Hemiptera: Pentatomidae]. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuilla.
- 13169 SR Sánchez Peña (442). *Bagrada hilaris* [Hemiptera: Pentatomidae]. Jul 2014. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuilla.
- 13173 SR Sánchez Peña (100). *Melanoplus bivittatus* [Orthoptera: Acrididae]. Sep 2009. Mexico: Saltillo, Coahuilla, Mexico, Saltillo, Coahuilla.
- 13224 MA Ansari (BNL202). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 17 Mar 2016. United Kingdom.
- 13228 MA Ansari (BNL201). Soil, using *Galleria mellonella* [Lepidoptera: Pyralidae] as a trap. Rec'd 1 Apr 2016. United Kingdom.
- 13255 Larva, [Diptera: Culicidae]. 6 Dec 2016. Brazil: Aruanã, Goiás. **RESTRICTED ACCESS:**  
*contact Curator.*
- 13257 [AS Lestari FD] [Coleoptera: Curculionidae]. 7 Oct 2013. USA: Polk County, Oregon.
- 13258 [AS Lestari W1] [Lepidoptera: Pyralidae]. 7 Oct 2013. USA: Polk County, Oregon.
- 13259 [AS Lestari 32 LA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.
- 13303 [LA Wood EN1] *Haematobia irritans* [Diptera: Muscidae]. 24 Nov 2010. USA: Beef cattle ranch , Gainesville, Florida.
- 13304 [LA Wood EN1-1] *Haematobia irritans* [Diptera: Muscidae]. 24 Nov 2010. Laboratory manipulation. First passage of ARSEF 13303 through lab reared host. 13 August 2012.
- 13305 [LA Wood EN1-3] *Haematobia irritans* [Diptera: Muscidae]. 24 Nov 2010. Laboratory manipulation. Third passage of ARSEF 13303 through lab reared host. 02 November 2012.
- 13306 [LA Wood EN1-5] *Haematobia irritans* [Diptera: Muscidae]. 24 Nov 2010. Laboratory manipulation. Fifth passage of ARSEF 13303 through lab reared host. 22 February 2013.
- 13307 [LA Wood EN1-7] *Haematobia irritans* [Diptera: Muscidae]. 24 Nov 2010. Laboratory manipulation. Seventh passage of ARSEF 13303 through lab reared host. 08 July 2013.
- 13310 [ST Jaronski 14WS22] *Cephus cinctus* [Hymenoptera: Cephidae]. 2014. USA: Loma, Chouteau County, Montana. 48°4'31.98"N, 110°27'34.38"W.
- 13311 [ST Jaronski 14WS23] *Cephus cinctus* [Hymenoptera: Cephidae]. 2014. USA: Loma, Chouteau County, Montana. 48°4'31.98"N, 110°27'34.38"W.

- 13312 [ST Jaronski 14WS24] *Cephus cinctus* [Hymenoptera: Cephidae]. 2014. USA: Loma, Chouteau County, Montana. 48°4'31.98"N, 110°27'34.38"W.
- 13330 [ST Jaronski 15WS33] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13331 [ST Jaronski 15WS34] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13332 [ST Jaronski 15WS35] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13333 [ST Jaronski 15WS36] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13334 [ST Jaronski 15WS37] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13335 [ST Jaronski 15WS38] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13336 [ST Jaronski 15WS39] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13337 [ST Jaronski 15WS40] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13338 [ST Jaronski 15WS41] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13339 [ST Jaronski 15WS42] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13340 [ST Jaronski 15WS43] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13341 [ST Jaronski 15WS44] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13342 [ST Jaronski 16WS01] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13343 [ST Jaronski 16WS02] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13344 [ST Jaronski 16WS04] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13345 [ST Jaronski 16WS05] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13346 [ST Jaronski 16WS06] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13347 [ST Jaronski 16WS07] *Cephus cinctus* [Hymenoptera: Cephidae]. 2016. USA: Bjelland Farm, nr Conrad, Pondera County, Montana. 48°10.510'N 111°32.886'W.
- 13369 [C Montalva F45, F60] [Hymenoptera: Vespidae]. Rec'd 17 Apr 2017. Chile.
- 14001 ST Jaronski (NEB159). Adult, *Diabrotica virgifera virgifera* [Coleoptera: Chrysomelidae]. 1986. USA: Nebraska.
- 14002 ST Jaronski (IL197-5A). Adult, *Diabrotica virgifera virgifera* [Coleoptera: Chrysomelidae]. 1986. USA: Illinois.
- 14003 ST Jaronski (18MC01). Adult, *Anabrus simplex* [Orthoptera: Tettigoniidae]. 25 Sep 2018. USA: near Murphy, Owyhee County, Idaho. 43.063585 N, -166.634922 W.
- 14004 ST Jaronski (18MC05). Adult, *Anabrus simplex* [Orthoptera: Tettigoniidae]. 25 Sep 2018. USA: near Murphy, Owyhee County, Idaho. 43.063585 N, -166.634922 W.
- Beauveria bassiana* sensu stricto** (Balsamo-Crivelli)  
Vuillemin  
[Sordariomycetes: Hypocreales]  
These isolates have been genomically confirmed to be *Beauveria bassiana* in the strict sense as designated by Rehner et al. (2011. Mycologia 103: 1055-1073).
- 
- 300 RS Soper. *Nysius vinitor* [Hemiptera: Lygaeidae] on sunflower. 17 Jan 1979. Australia: Tamworth, New South Wales. Identification verified genomically.
- 751 P Jolivet. [Coleoptera: Chrysomelidae]. Apr 1982. Vietnam: Cuc Phuong Forest. Identification verified genomically.
- 7518 M Shimazu (F-1208). Larva, [Hymenoptera: Pamphiliidae] on *Larix* sp., larch. Sep 1995. Japan: Teshikaga, Hokkaido Prefecture. Isolated from conidia produced on a stroma-forming cadaver (perithecia immature). Identification verified genomically.

- 12339 LA Castrillo (FRA2). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12340 LA Castrillo (FRA4). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12341 LA Castrillo (FRB2). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12342 LA Castrillo (FRB5). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12343 LA Castrillo (FRC5). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12344 LA Castrillo (FRD2). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12345 LA Castrillo (CNC10). Isolated from agricultural soil sample. Oct 2002. USA: organic farm, Candor, New York.
- 12346 LA Castrillo (FRE2). Isolated from agricultural soil sample. May 2003. USA: Homer C. Thompson Vegetable Research Farm, Freeville, New York.
- 12347 LA Castrillo ← SL Annis and E Groden (DM1). Isolated from agricultural soil sample. Summer 2000. USA: Goranson Farm, Dresden Mills, Maine.
- 12348 LA Castrillo ← SL Annis and E Groden (DM8). Isolated from agricultural soil sample. Summer 2000. USA: Goranson Farm, Dresden Mills, Maine.
- 12349 LA Castrillo ← SL Annis and E Groden (DM9). Isolated from agricultural soil sample. Summer 2000. USA: Goranson Farm, Dresden Mills, Maine.
- 12350 LA Castrillo ← SL Annis and E Groden (DM22). Isolated from agricultural soil sample. Summer 2000. USA: Goranson Farm, Dresden Mills, Maine.
- 12351 LA Castrillo ← SL Annis and E Groden (DMA56). Isolated from agricultural soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 12352 LA Castrillo ← SL Annis and E Groden (DMA68). Isolated from agricultural soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 12353 LA Castrillo ← SL Annis and E Groden (DMA93). Isolated from agricultural soil sample. Summer 2002. USA: Goranson Farm, Dresden Mills, Maine.
- 12354 LA Castrillo ← SL Annis and E Groden (AR9). Isolated from agricultural soil sample. Summer 2000. USA: Presque Isle, Maine.
- 12355 LA Castrillo ← SL Annis and E Groden (AR17). Isolated from agricultural soil sample. Summer 2000. USA: Presque Isle, Maine.
- 13433 [DW Roberts DWR 2430] Isolated from soil sample SS 2669628 Jul 2010. USA: Wasco County, Oregon. 45.066152, -120.836046.
- 13434 [DW Roberts DWR 2464] Isolated from soil sample SS 2969729 Jul 2011. USA: La Paz County, Arizona. 34.6097, -113.40116.
- 13437 [DW Roberts DWR 2479] Isolated from soil sample SS 2962526 Jul 2011. USA: Maricopa County, Arizona. 34.32243, -111.44862.
- 13438 [DW Roberts DWR 2480] Isolated from soil sample SS 2914029 Jun 2011. USA: Pinal County, Arizona. 32.88704, -111.93127.
- 13439 [DW Roberts DWR 2481] Isolated from soil sample SS 2824829 Jun 2011. USA: Maricopa County, Arizona. 33.37755, -113.2023.
- 13442 [DW Roberts DWR 2496] Isolated from soil sample SS 3003425 Apr 2011. USA: Nye County, Nevada. 36.54594, -116.50829.
- 13443 [DW Roberts DWR 2510] Isolated from soil sample SS 3158319 Jul 2011. USA: Emmons County, North Dakota. 46.18158, -100.47618.
- 13444 [DW Roberts DWR 2513] Isolated from soil sample SS 318799 Aug 2011. USA: Grant County, Oregon. 44.80402, -119.07509.
- 13445 [DW Roberts DWR 2518] Isolated from soil sample SS 299148 Jul 2011. USA: Lincoln County, Idaho. 42.90134, -114.25104.
- 13446 [DW Roberts DWR 2520] Isolated from soil sample SS 3229918 Aug 2011. USA: Montana. 47.17443, -112.09902.
- 13447 [DW Roberts DWR 2521] Isolated from soil sample SS 3219311 Aug 2011. USA: Montana. 47.32873, -106.97477.
- 13448 [DW Roberts DWR 2522] Isolated from soil sample SS 32312 Summer 2011. USA: Montana. 46.29372, -111.25717.
- 13449 [DW Roberts DWR 2523] Isolated from soil sample SS 3238027 Jul 2011. USA: Montana. 45.38225, -111.72971.
- 13456 [DW Roberts DWR 2534] Isolated from soil sample SS 3228424 Aug 2011. USA: Montana. 47.14975, -106.33213.
- 13462 [DW Roberts DWR 2553] Isolated from soil sample SS 32733 B16 May 2012. USA: Hayes County, Nebraska. 40.49223, -100.93043.
- 13463 [DW Roberts DWR 2556] Isolated from soil sample SS 3272514 May 2012. USA: Red Willow County, Nebraska. 40.00940, -100.69678.
- 13469 [DW Roberts DWR 2566] Isolated from soil sample SS 33938 B5 Jun 2012. USA: Sheridan County, Nebraska. 42.67236, -102.55834.
- 13682 [M Burjanadze MB-021] Isolated from soil sample using selective media. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.



- 13736 [M Burjanadze MB-080] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13737 [M Burjanadze MB-081] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13738 [M Burjanadze MB-082] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13739 [M Burjanadze MB-083] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13742 [M Burjanadze MB-086] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13743 [M Burjanadze MB-087] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13744 [M Burjanadze MB-088] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13745 [M Burjanadze MB-089] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13746 [M Burjanadze MB-090] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13747 [M Burjanadze MB-091] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. Collected 2017 in the area bounded by N 41.87778? to N 41.73? and E 42.081944? to E 42.02611, 300 to 2500 meters above sea level.
- 13749 [M Burjanadze MB-093] Soil, using *Tenebrio molitor* [Coleoptera: Tenebrionidae] as a trap. Rec'd 17 Sep 2018. Republic of Georgia: Bodbe, Kakheti. Signnaghi - St. Nino Monastery.
- 13750 [M Burjanadze MB-094] [Coleoptera]. Rec'd 17 Sep 2018. Republic of Georgia: Sartichala, Kvemo Kartli.
- 13751 [M Burjanadze MB-095] [Coleoptera]. Rec'd 17 Sep 2018. Republic of Georgia: Sartichala, Kvemo Kartli.
- 13754 [M Burjanadze MB-098] *Viteus vitifoliae* [Hemiptera: Phylloxeroidea]. Rec'd 17 Sep 2018. Republic of Georgia: Bodbe, Kakheti. Signnaghi - St Nino Monastery.
- Beauveria bassiana(?)*** (Balsamo-Crivelli) Vuillemin  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae
- 5182 S Gouli (GA-91). Phylum Arthropoda, Class Chilopoda. 29 May 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5644 [IITA 82] A Cherry. *Eldana saccharina* [Lepidoptera: Pyralidae]. 3 Jul 1996. Benin: IITA field, Cotonou, Atlantique.
- 5684 BL Parker (SPT-084). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.
- 5815 BL Parker (HWA 242/2). *Adelges tsugae* [Hemiptera: Adelgidae]. Rec'd 13 Jul 1998.
- 5816 BL Parker (AT 062). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 5817 BL Parker (AT 063). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 5818 BL Parker (AT 069). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 5959 JL Stimac (UF 542). *Solenopsis invicta* [Hymenoptera: Formicidae]. Jun 1987. Brazil: Mato Grosso.
- 5975 JL Stimac (UF SP74). From nest soil of *Solenopsis* Apr 1989. USA: Gainesville, Florida.
- 5976 JL Stimac (UF SP86). From nest soil of *Solenopsis* Apr 1989. USA: Gainesville, Florida.

- 5990 JL Stimac (UF MVT). *Trachemys scripta* [Chelonia: Emydidae]. Rec'd 23 Nov 1998. Spain.
- 6608 JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 27 Sep 2000. Hungary: greenhouse, Budapest, Budapest.
- 6890 H Cortez Madrigal (B1). [Coleoptera: Chrysomelidae] on *Eucalyptus* sp. 30 Sep 1999. Mexico: Huimanguillo, Tabasco.
- 6891 H Cortez Madrigal (B2). [Coleoptera: Chrysomelidae] on weeds. 10 Oct 2000. Mexico: Cárdenas, Tabasco.
- 6892 E Zhioua (T73). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. Rec'd May 2001.
- 8801 LA Castrillo (L1s1). Isolated from soil sample. 25 Sep 2007. USA: Willoughby Park, Lansing, Michigan. .
- 8802 LA Castrillo (L2s1). Isolated from soil sample. 25 Sep 2007. USA: Willoughby Park, Lansing, Michigan. .
- 8803 LA Castrillo (L3s1). Isolated from soil sample. 25 Sep 2007. USA: Willoughby Park, Lansing, Michigan.
- 8804 LA Castrillo (L5s1). Isolated from soil sample. 25 Sep 2007. USA: Willoughby Park, Lansing, Michigan.
- 8805 LA Castrillo (A2s5). Isolated from soil sample. 25 Sep 2007. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8807 LA Castrillo (A3s2). Isolated from soil sample. 25 Sep 2008. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8808 LA Castrillo (A4s2). Isolated from soil sample. 25 Sep 2007. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8809 LA Castrillo (A5s1). Isolated from soil sample. 25 Sep 2007. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8810 LA Castrillo (A5s3). Isolated from soil sample. 25 Sep 2007. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8811 LA Castrillo (A1b1). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Hudson Mills Metro Park, Ann Arbor, Michigan.
- 8812 LA Castrillo (R6b1). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8813 LA Castrillo (R6b3). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8814 LA Castrillo (R8b3). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8815 LA Castrillo (R8b5). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8816 LA Castrillo (R8b8). From bark of *Fraxinus pennsylvanica* Marshall, green ash. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8817 LA Castrillo (R7s1). Isolated from soil sample. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8818 LA Castrillo (R8s1). Isolated from soil sample. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 8819 LA Castrillo (R8s3). Isolated from soil sample. 25 Sep 2007. USA: Western Golf and Country Club, Redford, Michigan.
- 9271 Z Demirbag and E Tanyeli (Dm-5). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
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- Beauveria brongniartii* (Saccardo) Petch**  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.
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- 617 ATCC (26156) ← P Ferron (6). Larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Rec'd 27 May 1981. France. Identification verified genomically. CULTURE EX TYPE from specimen proposed for conservation as species type.
- 678 DW Roberts (101481-4-1). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 14 Oct 1981. PR China: Hunan.
- 979 [GCRI 64-82] RA Hall ← J Fargues. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France. Identification verified genomically.
- 985 J Aoki (Beau. 22) ← K Katagiri ← T Kushida. *Anomala costata* [Coleoptera: Scarabaeidae]. Nov 1971. Japan: Hachioji, Tokyo Prefecture. Identification verified genomically.
- 1067 TJ Poprawski ← S Keller (117). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 10 May 1982. Switzerland: Buhwil, Thurgau.
- 1068 TJ Poprawski ← S Keller (118). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 10 May 1982. Switzerland: Buhwil, Thurgau.
- 1069 TJ Poprawski ← S Keller (119). *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd Feb 1984. Switzerland. Mixture of 3 strains.
- 1070 TJ Poprawski ← S Keller (120). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Jul 1982. Switzerland: Breitenloo, Thurgau.
- 1071 TJ Poprawski ← S Keller (125). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Bleiken, Thurgau.
- 1072 TJ Poprawski ← S Keller (126). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Bleiken, Thurgau.
- 1076 S Keller (131). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 6 Jan 1983. Switzerland: Istighofen, Thurgau.
- 1077 S Keller (134). 2nd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 8 Dec 1983. Switzerland: Bleiken, Thurgau.



- 1366 S Balazy (1594d). Rec'd 19 May 1984. Poland.
- 1431 MC Rombach (A). *Niphonoclea* sp. [Coleoptera: Cerambycidae] on forest litter. Apr 1984. Philippines: UPLB Botanical Garden, Los Baños, Manila.
- 1481 [ARSEF 1829] SB Alves (258). *Castnia licus* [Lepidoptera: Castniidae] on sugar cane. Rec'd 6 Jul 1984. Brazil: Pernambuco.
- 1482 [ARSEF 1830] SB Alves (210). *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. Rec'd 6 Jul 1984. Brazil: São Paulo.
- 1829 [ARSEF 1481 (lost)] SB Alves (258). *Castnia licus* [Lepidoptera: Castniidae] on sugar cane. Acc'd 29 Jan 1985. Brazil: Pernambuco.
- 1830 [ARSEF 1482 (lost)] SB Alves (210). *Diatraea saccharalis* [Lepidoptera: Pyralidae] on sugar cane. Acc'd 29 Jan 1985. Brazil: São Paulo.
- 1871 S Keller (165). Rec'd 27 Mar 1985. Location not specified.
- 1872 S Keller (166). Rec'd 27 Mar 1985. Location not specified.
- 1873 S Keller (167). Rec'd 27 Mar 1985. Location not specified.
- 1874 S Keller (168). Rec'd 27 Mar 1985. Location not specified.
- 1875 S Keller (169). Rec'd 27 Mar 1985. Location not specified.
- 2271 BT Forschler (RF-3). Adult, *Cyrtopistomus castaneus* [Coleoptera: Curculionidae]. Sep 1986. USA: Robinson Forest, Univ. of Kentucky, Breathitt County, Kentucky. Identification verified genomically.
- 2660 C Gopalakrishnan (31). Adult, [Coleoptera]. Rec'd Nov 1988. India.
- 3054 [MAF F1] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 4024 T Steenberg (226) ← A Kirkeby-Thomse. *Ips typographus* [Coleoptera: Scolytidae] on Sitka spruce. Rec'd Nov 1993. Denmark.
- 4362 LA Lacey (94126). Soil. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido. Identification verified genomically.
- 4363 LA Lacey (94128). Soil. 27 Apr 1994. Japan: Takao Golf Course, Sapporo, Hokkaido. Identification verified genomically.
- 4380 LA Lacey (94141) ← CAAS (CZN.9301). [Coleoptera: Scarabaeidae]. 7 May 1994. Location not specified.
- 4381 LA Lacey (94142) ← CAAS (4pl). [Coleoptera: Scarabaeidae]. 7 May 1994. Location not specified.
- 4385 LA Lacey (94136). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.
- 4386 LA Lacey (94137). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.
- 4388 LA Lacey (94139). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou.
- 4389 LA Lacey (94131). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4458 LA Lacey (94127). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo Golf Course, Sapporo, Hokkaido.
- 4465 LA Lacey (94143). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4466 LA Lacey (94144). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4467 LA Lacey (94145). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4468 LA Lacey (94146). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4469 LA Lacey (94147). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4470 LA Lacey (94148). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4471 LA Lacey (94149). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4472 LA Lacey (94150). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4473 LA Lacey (94151). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4475 LA Lacey (94153). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4476 LA Lacey (94154). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4477 LA Lacey (94155). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4478 LA Lacey (94156). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
- 4991 LA Lacey (95049). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4992 LA Lacey (95050). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4993 LA Lacey (95052). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4994 LA Lacey (95053). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 4995 LA Lacey (95054). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.
- 5355 LA Lacey (96015). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5356 LA Lacey (96016). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5357 LA Lacey (96017). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5358 LA Lacey (96018). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.

- 5359 LA Lacey (96019). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5360 LA Lacey (96020). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5361 LA Lacey (96021). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5362 LA Lacey (96022). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5363 LA Lacey (96023). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 5364 LA Lacey (96024). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
- 6023 BL Parker ← V Gouli (SPT-R-201). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6213 AE Hajek (1). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae] in leaf litter. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6214 AE Hajek (2A). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6215 AE Hajek (3A). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
- 6235 [RCEF 0385] *Anoplophora malasiaca* [Coleoptera: Cerambycidae]. Rec'd 24 Aug 1999. Japan.
- 6412 M Shimazu (F-1101). *Anoplophora malasiaca* [Coleoptera: Cerambycidae]. 8 Dec 1993. Japan: Kukisaki, Ibaraki Prefecture.
- 6437 Acc'd 9 Mar 2001.
- 6438 Acc'd 9 Mar 2001.
- 6439 Acc'd 9 Mar 2001.
- 6440 Acc'd 9 Mar 2001.
- 7058 E Groden (Ant 1 / Bio 1). *Myrmica rubra* [Hymenoptera: Formicidae]. 13 Aug 2002. USA: Otter Creek, north end of Otter Cove, Mount Desert Island, Maine. Identification verified genomically.
- 7268 JM Sung (EFCC 5119). [Coleoptera: Carabidae]. 14 Jul 2000. Republic of Korea: Undooryung, Kangwon-do. Identification verified genomically.
- 7376 DM Gibson. Adult, *Magiccada septendecim* [Hemiptera: Cicadidae]. 9 Jun 2004. USA: ARS National Visitor Center, Beltsville, Maryland. Identification verified genomically.
- 7528 S Keller (812). 3rd instar larva, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 23 Oct 2002. Switzerland: Innertkirchen, Bern.
- 7555 I Klingen (NCRI 57/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: organic apple orchard, Balestrand, Sogn og Fjordane.
- 7556 I Klingen (NCRI 71/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: Målsnes, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7557 I Klingen (NCRI 73/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: Målsnes, field margin of organic apple orchard, Balestrand, Sogn og Fjordane.
- 7558 I Klingen (NCRI 74/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 3 Oct 2001. Norway: organic apple orchard, Balestrand, Sogn og Fjordane.
- 7559 I Klingen (NCRI 86/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: field margin of organic apple orchard, Balestrand, Sogn og Fjordane.
- 7560 I Klingen (NCRI 223/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: Nessane, organic apple orchard, Balestrand, Sogn og Fjordane.
- 7561 I Klingen (NCRI 233/02). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 1 Oct 2001. Norway: field margin of conventional apple orchard, Balestrand, Sogn og Fjordane.
- 7761 [CBS 326.67; IMI 232818] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd 10 Jun 2005. Netherlands.
- 7762 [IMI 303228] From spawned mushroom compost. Rec'd 10 Jun 2005. United Kingdom. **RESTRICTED ACCESS:** consult Curator.
- 8034 NV Meyling (KVL 03-140). *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil of hedge. 6 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 9452 [SRCAMB VL-1582] V Likhovidov. Larva, [Coleoptera: Elateridae]. 14 Sep 2004. Russian Federation: Caucasus Mountains, Karachayevo-Cherkessiya Republ. Field Collection Number F-508.
- 9453 [SRCAMB AS-657] V Likhovidov. Isolated from soil sample. Sep 2005. Russian Federation: Tver Region. Field Collection Number F-1028.
- 9599 X Zou (6). [Lepidoptera: Noctuidae]. Rec'd 19 Jan 2010. PR China: Guizhou Province.
- 10277 DJ Bruck (IP-780) and J Fisher. Rhizosphere of blueberry crop. 21 Jul 2009. USA: Benton County, Oregon. Identification verified genomically.
- 10278 DJ Bruck (IP 951) and J Fisher. Rhizosphere of blueberry crop. 21 Jul 2009. USA: Benton County, Oregon. Identification verified genomically.

- 10279 DJ Bruck (IP 957) and J Fisher. Rhizosphere of grape crop. 5 Aug 2009. USA: Polk County, Oregon.  
10280 DJ Bruck (IP 969) and J Fisher. Rhizosphere of blueberry crop. 31 Jul 2009. USA: Benton County, Oregon. Identification verified genomically.

***Beauveria caledonica*** Bissett & Widden  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae

- 1567 S Keller (D156). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen. Identification verified genomically.  
2251 IMI ← HC Evans (Ro 596). Adult, [Coleoptera]. Feb 1980. Brazil: Belém, Pará. Identification verified genomically.  
2567 CCFC (DAOM 191855) ← P Widden. Natural heather moors, A1 horizon. Rec'd 17 May 1988. Scotland: Banchory, Grampian. CULTURE EX TYPE.  
4302 [DAT 333] AC Rath (F333) ← H Yip (HY26). Soil. Rec'd 6 Jun 1994. Australia: Hobart, Tasmania. Identification verified genomically.  
7117 WK Reeves. [Orthoptera: Gryllacrididae]. 4 Apr 2003. USA: Rusty's Cave, Dade County, Georgia. Identification verified genomically.  
8024 NV Meyling (KVL 03-70). *Amphimallon solstitiale* [Coleoptera: Scarabaeidae] from soil. 12 Jul 2000. Denmark: Jægerspris, Zealand. Identification verified genomically.  
12963 M Barta (MK11) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 7 May 2012. Slovakia: Vysoké Tatry-Start. N 49.17913, E 20.25763.  
12969 M Barta (MK205) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Hnilčík. N 48.85239, E 20.57028.  
12972 M Barta (MK263) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 5 Jun 2012. Slovakia: Biele Vody. N 48.86796, E 20.40474.

***Beauveria hoplocheli*** sp. nov.  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae

- 13021 [MNHN RF-06107] L Costet. *Hoplochelus marginalis* [Coleoptera: Melolonthidae]. 1993. France: Sainte-Thérèse, Reunion Island. CULTURE EX TYPE.

***Beauveria kipukae*** SA Rehner & Humber  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Defined primarily by genotypic characters

- 7032 RG Hollingsworth (KNF2002-1). [Hemiptera: Delphacidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii. CULTURE EX TYPE.

***Beauveria lii*** S. L. Zhang, B. Huang (sp. nov., unpublished)  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae

- 11741 [RCEF 5500] B Huang. Larva, *Henosepilachna vigintioctopunctata* [Coleoptera: Coccinellidae] (XY20100923-63). 23 Sep 2010. PR China: Xunyi County, Xianyang City, Shaanxi Province. CULTURE EX TYPE. Sequence data: GenBank.

***Beauveria malawiensis*** SA Rehner & Aquino de Muro  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae

- 4755 [DAT 367] AC Rath (F367) ← H Yip (HY227). Soil. 27 Oct 1988. Australia: Bruny Island, Tasmania. Identification verified genomically.  
7760 [IMI 228343] *Phoracantha semipunctata* [Coleoptera: Cerambycidae]. 4 May 1978. Malawi: Zomba, Southern. CULTURE EX TYPE.

***Beauveria pseudobassiana*** SA Rehner & Humber  
[Sordariomycetes: Hypocreales]  
Cordycipitaceae. Defined primarily by genotypic characters

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156 M Wojciechowska (1092). [Hymenoptera: Ichneumonidae] parasitic on lepidopteran. Rec'd 18 Jul 1977. Poland.  
157 M Wojciechowska (1110). *Anthicus floralis* [Coleoptera: Anthicidae]. Rec'd 18 Jul 1977. Poland.  
292 DW Roberts ← O Alyoshina. Single spore reisolate of Boverin formulation. Apr 1978. Commonwealth of Independent States.  
299 RC Hedlund. Larva, *Lymantria dispar* [Lepidoptera: Lymantriidae]. Jun 1978. Rumania: 1 km W of Pasarea on Rt. 3, Pasarea, Muntenia.  
813 GG Soares (6). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.  
814 GG Soares (10). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistere.  
1359 S Balazy (1597a). Rec'd 19 May 1984. Poland.  
1360 S Balazy (1599). Rec'd 19 May 1984. Poland.  
1565 KV Deseô (109) ← Cortellini. Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Mar 1984. Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna.  
1855 P Spencer and HS Whitney (R640). Adult, *Ips* sp. [Coleoptera: Scolytidae]. Jul 1984. Canada: Christina Lake, British Columbia. Identification verified genomically.  
2455 UAMH (4132) ← GS Bulmer (05-78). *Alligator mississippiensis* [Crocodylia: Alligatoridae]. May 1978. USA: City Zoo, Oklahoma City, Oklahoma.

- 2557 S Sandoval (95). Adult, [Coleoptera: Cerambycidae]. Acc'd 18 Mar 1988. Ecuador.
- 2997 MS Goettel. *Vespa vulgaris* [Hymenoptera: Vespidae]. 24 Feb 1990. Canada: Lethbridge, Alberta. Genomically identified by SA Rehner.
- 3055 [MAF F6] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3063 [MAF F13] T Glare. *Sitona* sp. [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3065 [MAF F28] T Glare. *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3066 [MAF F29] T Glare. *Paropsis charybdis* [Coleoptera: Chrysomelidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3070 [MAF F33] T Glare. *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island.
- 3121 G Mercadier and TJ Poprawski (8852). [Hemiptera: Aphididae] on *Urtica* sp. 10 Jun 1988. France: Garanières, Yvelines.
- 3153 G Mercadier and TJ Poprawski (8809A). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Beypazari, Ankara.
- 3216 LK Rieske. *Thrips calcaratus* [Thysanoptera: Thripidae]. Summer 1991. USA: Rusk County, Wisconsin. Identification verified genomically.
- 3220 LA Lacey. *Cydia pomonella* [Lepidoptera: Tortricidae]. Rec'd Feb 1991. Portugal. Identification verified genomically.
- 3405 AE Hajek (18). 6th instar larva, *Lymantria dispar* [Lepidoptera: Lymantriidae]. 10 Jun 1991. USA: Koontz Lokey, Page County, Virginia. CULTURE EX TYPE.
- 3528 AE Hajek (61c). 5th instar larva, *Lymantria dispar* [Lepidoptera: Lymantriidae]. 19 Jun 1991. USA: Belle Acre, Allegheny County, Pennsylvania.
- 3529 AE Hajek (73a). 5th instar larva, *Lymantria dispar* [Lepidoptera: Lymantriidae]. 11 Jun 1991. USA: Resurrection, Prince Georges County, Maryland. Identification verified genomically.
- 3965 LA Lacey (93002) ← F Herard. Larva, *Yponomeuti-dae* sp. [Lepidoptera: Yponomeutidae]. 4 May 1993. France: Bagnols, S/Céze.
- 4150 [DAT 144] AC Rath (F144). Nymph, *Phaulacridium vittatum* [Orthoptera: Acrididae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4222 [DAT 224] AC Rath (F224) ← H Yip (HY137). Soil. 23 Aug 1988. Australia: Burnie, Tasmania.
- 4240 [DAT 309] AC Rath (F309) ← H Yip (HY50). Soil. 19 Feb 1988. Australia: Avoca, Tasmania.
- 4254 [DAT 105] AC Rath (F105). Soil. 14 Jan 1988. Australia: Big Plains, Benham Estate, Avoca, Tasmania.
- 4261 [DAT 251] AC Rath (F251) ← H Yip (HT109). Soil. 8 Jun 1988. Australia: Forcett, Tasmania.
- 4271 [DAT 232] AC Rath (F232) ← H Yip (HY129). Soil. 18 Jul 1988. Australia: Elverton, Blessington, Tasmania.
- 4273 [DAT 9] AC Rath (F009) ← Pinnock. Larva, *Oncopera* sp. [Lepidoptera: Hepialidae]. 1983. Australia: South Australia.
- 4274 [DAT 143] AC Rath (F143). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4285 [DAT 199] AC Rath (F199) ← H Yip (HY162). Soil. 9 Sep 1988. Australia: Exeter, Tasmania.
- 4297 [DAT 85] AC Rath (F085) ← H Yip. Soil. Rec'd 6 Jun 1994. Australia: Mt. Wellington, Hobart, Tasmania.
- 4300 [DAT 276] AC Rath (F276) ← H Yip (HY84). Soil. Rec'd 6 Jun 1994. Australia: Connerville, Poatina, Tasmania.
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- 4320 [DAT 334] AC Rath (F334) ← H Yip (HY25). Soil. Rec'd 6 Jun 1994. Australia: Hobart, Tasmania.
- 4326 [DAT 288] AC Rath (F288) ← H Yip (HY72). Soil. Rec'd 6 Jun 1994. Australia: Tervue, York Plains, Tasmania.
- 4353 [DAT 335] AC Rath (F335) ← H Yip (HY24). Soil. Rec'd 6 Jun 1994. Australia: Hobart, Tasmania.
- 4356 [DAT 243] AC Rath (F243) ← H Yip (HY118). Soil. Rec'd 6 Jun 1994. Australia: Latrobe, Tasmania.
- 4564 [DAT 307] AC Rath (F307) ← H Yip (HY52). Soil. 19 Feb 1988. Australia: Avoca, Tasmania.
- 4571 [DAT 336] AC Rath (F336) ← H Yip (HY23). Soil. 6 Jan 1988. Australia: Silver Falls, Hobart, Tasmania.
- 4583 [DAT 305] AC Rath (F305) ← H Yip (HY54). Soil. 19 Feb 1988. Australia: Avoca, Tasmania.
- 4611 [DAT 90] AC Rath (F090). Soil. 28 Dec 1987. Australia: Glen Morey, Woodbury, Tasmania.
- 4612 [DAT 95] AC Rath (F095). Soil. 6 Jan 1988. Australia: Mt. Wellington, Hobart, Tasmania.
- 4644 [DAT 329] AC Rath (F329) ← H Yip (HY29). Soil. 7 Jan 1988. Australia: Welborough, Tasmania.
- 4658 [DAT 102] AC Rath (F102). Soil. 14 Jan 1988. Australia: Benham Estate, Avoca, Tasmania.
- 4670 [DAT 219] AC Rath (F219) ← H Yip (HY142). Soil. 23 Aug 1988. Australia: Edith Creek, Tasmania.
- 4721 [DAT 140] AC Rath (F140). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. Spring 1989. Australia: Glen Morey, Woodbury, Tasmania.
- 4741 [DAT 330] AC Rath (F330) ← H Yip (HY28). Soil. 1 Jun 1988. Australia: St Mary's, Tasmania.
- 4745 [DAT 347] AC Rath (F347) ← H Yip (HY11). Soil. 28 Dec 1987. Australia: The Braes, Woodbury, Tasmania.

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- 5370 I Klingen (NCRI 2-96 (B2)). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] Soil sample (loam). 10 May 1996. Norway: Border vegetation of cereal field, Bjørnebekk (59.43° N), Ås, Akershus. **RESTRICTED ACCESS:** *contact Curator*.
- 5557 I Klingen (STF 14.1). Larva, *Galleria mellonella* [Lepidoptera: Pyralidae] as bait from soil. 27 Sep 1996. Norway: Harstad, Troms. **RESTRICTED ACCESS:** *contact Curator*.
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- 5668 BL Parker (SPT-010). [Coleoptera]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.
- 5669 BL Parker (SPT-018). [Coleoptera: Scarabaeidae]. 19 Jan 1998. Turkey: Karadao Mountain, Yavuzeli, Gaziantep.
- 5678 BL Parker (SPT-020). [Coleoptera: Coccinellidae]. 19 Jan 1998. Turkey: Karadao Mountain, Yavuzeli, Gaziantep.
- 5724 L Erkiliç (Pazarcik/Karabiyikli-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 29 Mar 1998. Turkey: Pazarcik, Kahraman Maras.
- 5867 T Steenberg (SSL 641). Adult, *Haematobia irritans* [Diptera: Muscidae]. Aug 1997. Denmark: Ramløse, Zealand.
- 6015 BL Parker ← V Gouli (SPT-R-171). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6022 BL Parker ← V Gouli (SPT-R-200). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6043 BL Parker ← V Gouli (SPT-R-161). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
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- 6185 FE Vega (EBCL 99020). Larva, *Cydia pomonella* [Lepidoptera: Tortricidae]. 13 Jan 1999. France: St. Marie aux Anglais.
- 6229 [RCEF 0231] Adult, [Coleoptera: Scolytidae (Tribe Ipini)]. 8 Aug 1996. PR China: Guizhou Province. Identification verified genomically.
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- 8046 LB Flor (SCIs3) and TJ Kurtti. *Ixodes scapularis* [Acari: Ixodidae]. 22 Nov 2002. USA: St. Croix, Minnesota. Single spore isolate of ARSEF 8045. GenBank ITS sequence: DQ679897, GenBank EFla sequence: DQ679900.
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- 8256 WG Meikle and G Mercadier (EBCL 05006). *Varroa destructor* [Acari: Varroidae]. 29 Jun 2005. France: Le Vigan, Gard.
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- 10480 DW Roberts (DWR 360). Isolated from soil sample SS 1189. 28 Sep 2007. USA: Yavapai County, Arizona. N 34 35.522, W 112 36.061.
- 10492 DW Roberts (DWR 396). Isolated from soil sample SS 0602. Summer 2007. USA: Williams, Arizona. N 35.309628, W 112.36458.
- 10499 DW Roberts (DWR 403). Isolated from soil sample SS 0483. 14 Mar 2007. USA: Green Canyon, Logan, Utah. N 41 46.250, W 111 45.671.
- 10575 DW Roberts (DWR 539). Isolated from soil sample SS 3342. 30 Jul 2008. USA: Oregon.
- 10594 DW Roberts (DWR 566). Isolated from soil sample SS 3343. 30 Jul 2008. USA: Oregon.
- 10598 DW Roberts (DWR 570). Isolated from soil sample SS 4160. 11 Aug 2008. USA: Klamath County, Oregon. N 42.762013, W 121.81277.
- 10608 DW Roberts (DWR 610). Isolated from soil sample SS 4769. 11 Aug 2008. USA: Weston County, Wyoming. N 43.560056, W 104.7898.
- 10616 DW Roberts (DWR 618). Isolated from soil sample SS 4285. 25 Aug 2008. USA: Kimball County, Nebraska. N 41.04736, W 103.93899.
- 10618 DW Roberts (DWR 623). Isolated from soil sample SS 3391. 30 Jul 2008. USA: Oregon.
- 10623 DW Roberts (DWR 628). Isolated from soil sample SS 4190. 4 Aug 2008. USA: Klamath County, Oregon. N 42.532002, W 121.59103.
- 10628 DW Roberts (DWR 645). Isolated from soil sample SS 4189. 4 Aug 2008. USA: Klamath County, Oregon. N 42.33525, W 121.69994.
- 10630 DW Roberts (DWR 647). Isolated from soil sample SS 1537. 18 Jun 2008. USA: Lincoln County, Washington. N 47.55019, W 118.28008.

- 10634 DW Roberts (DWR 651). Isolated from soil sample SS 3458. 6 Aug 2008. USA: Mariposa County, California. N 37.42243, W 119.72471.
- 10635 DW Roberts (DWR 652). Isolated from soil sample SS 1485. 16 Jul 2008. USA: Franklin County, Washington. N 46.43925, W 118.70769.
- 10644 DW Roberts (DWR 667). Isolated from soil sample SS 3197. 13 Aug 2008. USA: Stevens County, Washington. N 48.1241, W 118.0968.
- 10646 DW Roberts (DWR 671). Isolated from soil sample SS 6313. 21 Jul 2008. USA: Box Elder County, Utah. N 41.514, W 113.2981.
- 10648 DW Roberts (DWR 673). Isolated from soil sample SS 7856. 12 Jun 2008. USA: Sanders, Montana.
- 10658 DW Roberts (DWR 683). Isolated from soil sample SS 3678. 11 Jun 2008. USA: Elbert County, Colorado. N 39.13181, W 103.82714.
- 10667 DW Roberts (DWR 698). Isolated from soil sample SS 3681. 11 Jun 2008. USA: Elbert County, Colorado. N 39.1718, W 103.91955.
- 10668 DW Roberts (DWR 699). Isolated from soil sample SS 3654. 6 Jun 2008. USA: Lincoln County, Colorado. N 39.22938, W 103.39844.
- 10670 DW Roberts (DWR 701). Isolated from soil sample SS 3718. 24 Jun 2008. USA: Elbert County, Colorado. N 39.23637, W 104.40359.
- 10671 DW Roberts (DWR 702). Isolated from soil sample SS 3682. 11 Jun 2008. USA: Elbert County, Colorado. N 39.10021, W 103.92255.
- 10672 DW Roberts (DWR 703). Isolated from soil sample SS 3732. 26 Jun 2008. USA: Elbert County, Colorado. N 39.20188, W 104.47177.
- 10674 DW Roberts (DWR 705). Isolated from soil sample SS 3775. 10 Jul 2008. USA: Larimer County, Colorado. N 40.823906, W 105.29536.
- 10676 DW Roberts (DWR 707). Isolated from soil sample SS 3796. 26 May 2008. USA: Washington County, Colorado. N 39.717393, W 103.21757.
- 10677 DW Roberts (DWR 708). Isolated from soil sample SS 3799. 26 May 2008. USA: Washington County, Colorado. N 39.711136, W 103.12265.
- 10688 DW Roberts (DWR 724). Isolated from soil sample SS 4516. 2 Jul 2008. USA: Armstrong County, Texas. N 35.00096, W 101.5585.
- 10690 DW Roberts (DWR 726). Isolated from soil sample SS 6328. 23 Jul 2008. USA: Beaver County, Utah. N 38.27049, W 112.41064.
- 10701 DW Roberts (DWR 737). Isolated from soil sample SS 7953. 23 Jul 2008. USA: Montana.
- 10703 DW Roberts (DWR 739). Isolated from soil sample SS 7959. 23 Jul 2008. USA: Montana.
- 10707 DW Roberts (DWR 745). Isolated from soil sample SS 3929. 10 Jul 2008. USA: Park County, Colorado. N 39.33621, W 105.82851.
- 10709 DW Roberts (DWR 747). Isolated from soil sample SS 4003. 12 Jun 2008. USA: Lincoln County, Colorado. N 38.60803, W 104.01695.
- 10720 DW Roberts (DWR 769). Isolated from soil sample SS 4074. 23 May 2008. USA: Morgan County, Colorado. N 40.073148, W 104.10911.
- 10730 DW Roberts (DWR 779). Isolated from soil sample SS 3988. 2 Jun 2008. USA: Washington County, Colorado. N 40.147393, W 103.4159883.
- 10732 DW Roberts (DWR 781). Isolated from soil sample SS 2649. 26 Aug 2008. USA: Graham County, Arizona. N 33.397751, W 109.718853.
- 10753 DW Roberts (DWR 854). Isolated from soil sample SS 1882. Jul 2008. USA: Chase County, Nebraska. N 40.41204, W 101.38511.
- 10772 DW Roberts (DWR 885). Isolated from soil sample SS 2134. 12 Aug 2008. USA: Keya Paha County, Nebraska.
- 10799 DW Roberts (DWR 923). Isolated from soil sample SS 6436. 6 Aug 2008. USA: Sanpete County, Utah. N 39.3933, W 111.4139.
- 10845 DW Roberts (DWR 972). Isolated from soil sample SS 6221. 12 Aug 2008. USA: Apache County, Arizona. N 34.216013, W 109.72028167.
- 10846 DW Roberts (DWR 973). Isolated from soil sample SS 6241. 12 Aug 2008. USA: Coconino County, Arizona. N 35.297775, W 112.26443167.
- 10847 DW Roberts (DWR 974). Isolated from soil sample SS 6260. 12 Aug 2008. USA: Coconino County, Arizona. N 35.256755, W 112.24246.
- 10848 DW Roberts (DWR 975). Isolated from soil sample SS 6235. 12 Aug 2008. USA: Apache County, Arizona. N 34.210155, W 109.717775.
- 10875 DW Roberts (DWR 1002). Isolated from soil sample SS 7124. 27 Jun 2008. USA: Beaver County, Utah. N 38.4242, W 113.0146.
- 10987 DW Roberts (DWR 1114). Isolated from soil sample SS 6940. 17 Jul 2008. USA: Carbon County, Utah. N 39.5251, W 110.4413.
- 11050 DW Roberts (DWR 1205). Isolated from soil sample SS 7088. May 2008. USA: Box Elder County, Utah. N 41.46619, W 113.54489.
- 11053 DW Roberts (DWR 1208). Isolated from soil sample SS 7786. 21 Aug 2008. USA: Johnson County, Wyoming. N 43.832075, W 106.89304.
- 11054 DW Roberts (DWR 1209). Isolated from soil sample SS 7806. 26 Aug 2008. USA: Park County, Wyoming. N 44.341716, W 109.37025.
- 11067 DW Roberts (DWR 1223). Isolated from soil sample SS 8029. 28 Jul 2008. USA: Montana.
- 11068 DW Roberts (DWR 1224). Isolated from soil sample SS 8054. Jul 2008. USA: Carter County, Montana.
- 11074 DW Roberts (DWR 1230). Isolated from soil sample SS 8074. 21 Jul 2008. USA: Treasure County, Montana. N 46.3994, W 107.3833.

- 11087 DW Roberts (DWR 1261). Isolated from soil sample SS 7406. 30 Jul 2008. USA: Uintah County, Utah. N 40.2645, W 109.3757.
- 11105 DW Roberts (DWR 1279). Isolated from soil sample SS 11295. May 2009. USA: Boise County, Idaho. N 43.673185, W 116.09569.
- 11110 DW Roberts (DWR 1302). Isolated from soil sample SS 8947. 5 Jul 2008. USA: Baca County, Colorado. N 37.193068, W 102.05834.
- 12240 ST Jaronski (13CT01 f3). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12241 ST Jaronski (13CT02 f3). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12242 ST Jaronski (13CT03 f3). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12243 ST Jaronski (13CT04 f1). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12244 ST Jaronski (13CT08 f2). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12245 ST Jaronski (13CT09 f2). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12246 ST Jaronski (13CT10 f2). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12247 ST Jaronski (13CT11 f2). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12248 ST Jaronski (13CT12 f2). Larva, *Cephus cinctus* [Hymenoptera: Cephidae]. Rec'd 19 Jun 2013. USA: Conrad, Montana.
- 12959 M Barta (IK38) ← I Kautmanova. *Ips typographus* [Coleoptera: Scolytidae]. 9 Apr 2012. Slovakia: Kykula. N 48.92580, E 17.87810.
- 12976 M Barta (MK331) ← M Kozanek. *Ips typographus* [Coleoptera: Scolytidae]. 6 Jun 2012. Slovakia: Bobrovec. N 49.28109, E 19.75058.
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- 13260 [AS Lestari FXSC] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.
- 13261 [AS Lestari FS9SLPA] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.
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- 13263 [AS Lestari aRB] [Lepidoptera: Pyralidae]. 22 Dec 2014. USA: Benton County, Oregon.
- 13309 [ST Jaronski 13WS66] *Cephus cinctus* [Hymenoptera: Cephidae]. 2013. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13313 [ST Jaronski 15WS01] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13314 [ST Jaronski 15WS02] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13315 [ST Jaronski 15WS03] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13316 [ST Jaronski 15WS04] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13317 [ST Jaronski 15WS05] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13318 [ST Jaronski 15WS06] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13319 [ST Jaronski 15WS07] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13320 [ST Jaronski 15WS08] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13321 [ST Jaronski 15WS09] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13322 [ST Jaronski 15WS10] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13323 [ST Jaronski 15WS11] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13324 [ST Jaronski 15WS12] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13325 [ST Jaronski 15WS13] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.

- 13326 [ST Jaronski 15WS14] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13327 [ST Jaronski 15WS21] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13328 [ST Jaronski 15WS31] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13329 [ST Jaronski 15WS32] *Cephus cinctus* [Hymenoptera: Cephidae]. 2015. USA: Patton Farm, East Knee, Chouteau County, Montana. 48.30714704, -111.930707.
- 13453 [DW Roberts DWR 2530] Isolated from soil sample SS 3244710 Aug 2011. USA: Montana. 48.66818, -112.29458.
- 13454 [DW Roberts DWR 2532] Isolated from soil sample SS 3245222 Aug 2011. USA: Montana. 48.75914, -106.06507.

***Beauveria sungii*** SA Rehner & Humber

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 1685 M Shimazu (F-450). *Lachnosterna morosa* [Coleoptera: Scarabaeidae]. Acc'd 2 Nov 1984. Japan: Ibaraki Prefecture. CULTURE EX TYPE.
- 5689 JM Sung (KEFC-251). [Coleoptera: Scarabaeidae]. 20 Aug 1993. Republic of Korea: Gal-Cheon, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7043 JM Sung (KEFC-3530). Rec'd 19 Jun 2002. From teleomorph morphologically resembling *Cordyceps staphylinidaecola*. Identification of anamorph verified genomically.
- 7044 JM Sung (KEFC-3549). Rec'd 19 Jun 2002. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7279 JM Sung (EFCC 5014). [Coleoptera: Chrysomelidae]. 11 Jul 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7280 JM Sung (EFCC 5657). [Coleoptera: Chrysomelidae]. Aug 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.
- 7281 JM Sung (EFCC 5884). [Hymenoptera]. 24 Aug 2000. Republic of Korea: Guryungryung, Kangwon-do. From teleomorph morphologically resembling

*Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

***Beauveria varroae*** SA Rehner & Humber

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 2694 [IMI 328059] C Prior. *Larinus* sp. [Coleoptera: Curculionidae]. Rec'd 19 Mar 1989. Switzerland. Identification verified genomically.
- 8257 WG Meikle and G Mercadier (EBCL 05007). *Varroa destructor* [Acari: Varroidae]. 29 Jun 2005. France: Montdardier, Gard. CULTURE EX TYPE.
- 8259 WG Meikle and G Mercadier (EBCL 05012). *Varroa destructor* [Acari: Varroidae]. 4 Jul 2005. France: Ur, Pyrénées-Orientales. Identification verified genomically.

***Beauveria vermiconia*** de Hoog & Rao

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 2922 CBS (645.74). Volcanic ash soil. 1974. Chile: Valdivia, Los Lagos. CULTURE EX TYPE.



<b>Beauveria sp.</b>	[Hemiptera: Membracidae]	<i>Melanoplus femurrubrum</i> 13784 13785 13808 13818 13949 13952
[Araneida]	Unknown species 2164	
Unknown species 1669 7582	[Hemiptera: Miridae]	<i>Melanoplus infantilis</i> 13861 13912 13914
[Araneida: Araneae]	<i>Adelphocoris</i> 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1213 1214 1215 1216 1218 1219 1220 1221 1222 1224	<i>Melanoplus keeleri</i> 13806 13860 13889 <i>Melanoplus packardii</i> 13798 13824 <i>Melanoplus sanguinipes</i> 13770 13779 13820 13831 13835 13836 13839 13858 13870 13873 13875 13877 13878 13879 13892 13918 13919 13927 13956 13957
Unknown species 5174 5187 6691	<i>Tupiocoris</i> 13396	<i>Phoetaliotes nebrascensis</i> 13773 13774 13775 13776 13777 13778 13780 13781 13782 13783 13786 13787 13788 13789 13790 13791 13792 13793 13794 13795 13796 13797 13800 13805 13807 13809 13810 13811 13812 13819 13821 13822 13823 13825 13830 13832 13833 13834 13842 13843 13847 13849 13853 13854 13857 13862 13865 13866 13867 13868 13869 13871 13874 13876 13880 13881 13884 13891 13898 13899 13900 13901 13902 13903 13904 13905 13906 13907 13908 13909 13910 13916 13928 13929 13930 13931 13932 13933 13934 13935 13940 13941 13942 13944 13945 13946 13947 13950 13951 13953
[Coleoptera]	[Hemiptera: Pentatomidae]	
Unknown species 5697 5831 7595	<i>Halyomorpha halys</i> 13757 13758	
[Coleoptera: Buprestidae]	[Hemiptera: Psyllidae]	
<i>Agrilus planipennis</i> 8110 8111 8112 8113 8116 8117 8119 8120 8121 8122 8123 8124 8125 8126 8127 8128 8129 8130 8132 8133 8134 8135 8136 8137 8138 8139 8140 8141 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8156 8158 8159 8160 8161 8164 8166 8167 8168 8169 8170 8171 8172 8173 8174 8175 8176 8177 8178 8180 8181 8182 8185 8186 8187 8188	<i>Diaphorina citri</i> 13570 13571 13765 13766	
[Coleoptera: Carabidae]	[Hemiptera: Scutelleridae]	
Unknown species 13370	<i>Eurygaster</i> 5686	
[Coleoptera: Chrysomelidae]	[Hymenoptera]	
<i>Basilepta fulvicornis</i> 8250 <i>Pachybrachis pallicornis</i> 547	Unknown species 13752	
[Coleoptera: Coccinellidae]	[Hymenoptera: Apidae]	
Unknown species 4853 5833 7591 <i>Coccinella septempunctata</i> 4027	<i>Apis mellifera</i> 7589	
[Coleoptera: Curculionidae]	[Hymenoptera: Formicidae]	
Unknown species 7463 <i>Anthonomus grandis</i> 1835 <i>Hypera postica</i> 1327 <i>Rhynchophorus palmarum</i> 13661 <i>Shirahoshizo insidiosus</i> 1681	Unknown species 11743 11744 11745 11746 11747 <i>Formica rufa</i> 7597 <i>Solenopsis invicta</i> 3859	
[Coleoptera: Elateridae]	[Lepidoptera]	
Unknown species 7580	Unknown species 2998 5832 7579 7586 7587 7594 7598 9596 9597 11709	
[Coleoptera: Lampyridae]	[Lepidoptera: Arctiidae]	
Unknown species 5186	<i>Hyphantria cunea</i> 12168 12169	
[Coleoptera: Scarabaeidae]	[Lepidoptera: Bombycidae]	
<i>Anomala cuprea</i> 1682 <i>Phyllophaga</i> 12793 12794 12795 <i>Popillia japonica</i> 4390 4391 4392 <i>Xyloryctes jamaicensis</i> 2412	<i>Bombyx mori</i> 1040	
[Coleoptera: Scolytidae]	[Lepidoptera: Geometridae]	
<i>Dendroctonus micans</i> 9272 <i>Hypothenemus hampei</i> 13377 13378 13379 13380 13381 13382 13383 13384 13385 13386 13387 13388 13389 13390 13391 13392 13393 13394 13395 13397 13398 13399 13407 13408 13409 13410 13411 13412 13413 13414 13415 13416 13417 13418 13419 13420 13421 13422 13423 13424 13595 <i>Tomicus pimperda</i> 4909 4910 4911 4912 4913 4914 4915 4916 4917 4918	Unknown species 13748 <i>Mocis</i> 590 <i>Spodoptera frugiperda</i> 3289	
[Diptera: Culicidae]	[Lepidoptera: Pyralidae]	
Unknown species 13290 13293 13294	<i>Chilo infuscatellus</i> 1886 <i>Galleria mellonella</i> 5078 7562 7563 7564 7565 7566 7567 7960 8675 12456 12457 12458 12459	
[Diptera: Muscidae]	[Lepidoptera: Tortricidae]	
<i>Musca domestica</i> 13814	<i>Cydia pomonella</i> 6533 6534 6535 6536 6537	
[Hemiptera]	[Orthoptera: Acrididae]	
Unknown species 11754	Unknown species 32 4196 4197 <i>Ageneotettix</i> 13897 <i>Ageneotettix deorum</i> 13872 <i>Arphia pseudonietana</i> 13895 <i>Aulocara</i> 13826 13840 13851 13852 13863 13864 13886 13887 <i>Melanoplus</i> 13802 13803 13859 13882 13883 13890 13955 <i>Melanoplus bivittatus</i> 13799 13801 13804 13827 13829 13837 13838 13841 13848 13893 13896 13917 13948 13954 <i>Melanoplus borealis</i> 13772 <i>Melanoplus confusus</i> 13771 13828 13844 13845 13846 13850 13855 13856 13885 13888 13911 13913 13915 13920 13921 13922 13923 13924 13925 13936 13937 13938 13939 13943 <i>Melanoplus dawsonii</i> 13894 13926	
[Hemiptera: Fulgoridae]		
<i>Lycorma delicatula</i> 13400 13599 13600 13601 13602 13603		
		[Prostigmata: Eriophyidae] <i>Phytoptus avellanae</i> 13755 13756
		<b>Beauveria amorpha</b>
		[Coleoptera: Cerambycidae] <i>Psacotheta hilaris</i> 1680
		[Coleoptera: Curculionidae] <i>Premnotrypes suturicallus</i> 1969
		[Coleoptera: Scarabaeidae] <i>Adoryphorus coultonii</i> 4149 <i>Anomala costata</i> 1676 <i>Popillia japonica</i> 4990
		[Hemiptera: Cicadellidae] <i>Nephotettix bipunctata cincticeps</i> 656
		[Hymenoptera: Formicidae] <i>Pogonomyrmex occidentalis</i> 7542 <i>Solenopsis</i> 2641
		[Lepidoptera] Unknown species 6227
		[Orthoptera: ?Gryllacrididae] Unknown species 6376 6577
		<b>Beauveria amorpha(?)</b>
		[Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 6827
		<b>Beauveria asiatica</b>
		[Coleoptera: Scarabaeidae] <i>Holotrichia parallela</i> 4384 4474
		<b>Beauveria australis</b>
		[Orthoptera: Acrididae] Unknown species 4580 4622

**Beauveria bassiana**

[Acari: Ixodidae]  
 Unknown species 6967  
*Ixodes scapularis* 6897

[Acari: Varroidae]  
*Varroa destructor* 8255

[Araneida]  
 Unknown species 4042 9446

[Araneida: Araneae]  
 Unknown species 5172 5173 6690

[Artiodactyla: Bovidae]  
*Ovis aries* 7770

[Coleoptera]  
 Unknown species 293 301 350 754 1980  
 3197 3198 3199 4382 5979 6559  
 6560 6692 6693 6695 6696 6697  
 7164 7470 7972 9444 10347

[Coleoptera: Anthribidae]  
*Aracecerus fasciculatus* 413

[Coleoptera: Bruchidae]  
*Caryedon serratus* 1186

[Coleoptera: Buprestidae]  
 Unknown species 6499  
*Agrilus planipennis* 8771 8772 8773  
 8774 10393 10394 10395 10396  
 10397 10398 10399 10400 10401  
 10402 10403 10404 10405 10406  
 10407 10408 10409 10410 10411  
 10412 10413 10414 10415 10416  
 10417 10418 10419 10420 10421  
 10422 10423 10424 10425 10426  
 10427 10428 10429 10430 10431  
 10432 10433 10434 10435 10436  
 10437 10438 10439 10440 10441  
 10442 10443 10444 10445 10446  
 10447 10448 10449 10450 10451  
 10452 10453 10454 10455 10456  
 10457 10458 10459 10460 10461  
 10462 10463 10464 10465 10466  
 10467 10468

[Coleoptera: Carabidae]  
 Unknown species 952 1975 3386 6059  
 6099 6689 7241 7270 7581  
*Amara familiaris* 4034  
*Amara plebeja* 4031  
*Bembidion lampros* 4032

[Coleoptera: Cerambycidae]  
 Unknown species 318 319 785 5072  
 6721 7251 7261 7266 7275 9442  
*Anoplophora glabripennis* 6387 6390  
 6391 6393 7152 7153 7154 7155  
 7156 7157 7158 7159 7166 7167  
 7168 7169 7170 7171 7172 7173  
 7174 7175 7176 7177 7178 7179  
 8412 8413 8414  
*Aromia moschata* 1559 1560 1561 1562  
 1563  
*Dectes texanus* 6471  
*Enaphalodes rufulus* 7404  
*Moechotypa diphysis* 1678  
*Monochamus alternatus* 1679  
*Monochamus scutellatus* 7162 7163  
*Ortholeptura valida* 5997  
*Plectrodera scalator* 7160 7161 7165  
*Psacotha hilaris* 1041  
*Tetropium fuscum* 11660

[Coleoptera: Chrysomelidae]  
 Unknown species 504 1451 1971 7244  
 7247 7271 7272 8835 8836 10350  
 11844  
*Cerotoma* 951 1458 1467  
*Cerotoma arcuata* 731 732 756 931 934  
 2075  
*Crimissa* 786 788 805  
*Crimissa cruralis* 4001  
*Diabrotica* 721 946 947 948 949 950  
 956 982 2512 2938 2942 3219 3287  
*Diabrotica balteata* 3309  
*Diabrotica barberi* 2579  
*Diabrotica paranaensis* 739 752 758  
 809 937 938  
*Diabrotica speciosa* 928 958 1060 1453  
 1454 1455 1456 1459 1460 1461  
 1462 1463 1464 1465 1466 1469  
 1470 1471 1472 1473 1475 1476  
 1954 1961 2511 2515 2520 2625  
 2626 8373  
*Diabrotica undecimpunctata* 201  
*Diabrotica virgifera* 2330 3111  
*Diabrotica virgifera virgifera* 9297  
 9298 9299 9300 9301 9302  
*Galerucella* sp. 5465  
*Galerucina* 2463  
*Leptinotarsa decemlineata* 33 149 252  
 317 340 344 353 384 505 506 507  
 508 509 510 534 535 1039 1079  
 1081 1106 1619 1620 1621 1622  
 1623 1624 1704 1705 1706 1707  
 1708 1709 1710 1711 1712 1713  
 1721 1722 1723 1749 1750 1775  
 1776 1777 1778 1779 1780 1781  
 1982 2030 2031 2032 2695 2987  
 2988 2989 2990 2991 5286 5533  
 5534 5535 5536 5537 5807 5813  
 6986 6987 6988 8998 9441  
*Lilioceris lili* 5195  
*Maecolaspis monrosi* 2509  
*Notonata* 3437 3438 3439 3441 3442  
 3444 3446 3447 3450 3451 3452  
 3455  
*Odontota dorsalis* 5553  
*Pyrhalta luteola* 1509 1510 1511 1518  
 1519  
*Pyrhalta viburni* 9449  
*Systema* 2079  
*Xanthogaleruca luteola* 5501

[Coleoptera: Chrysomelidae: Hispinae]  
 Unknown species 8494

[Coleoptera: Coccinellidae]  
 Unknown species 6055 6061 6062 6063  
 6074 6075 6092 6095 6111 6112  
 11878  
*Coccinella* 2033 2034  
*Coccinella septempunctata* 2580 3534  
 4018  
*Coleomegilla maculata* 1956  
*Cycloneda sanguinea* 2010 8372 8462  
 8463  
*Hippodamia convergens* 4973 4974  
 4975

[Coleoptera: Cucujidae: Silvaninae]  
*Ahasverus advena* 5857

[Coleoptera: Curculionidae]  
 Unknown species 930 1061 2040 3667  
 4052 6216 6217 7202 7466 7471  
 7769 7978 8520 8521 8522 8523  
 8524 8525 8526 8530 8705  
*Anthonomus grandis* 1966 2559 2638  
 2639 2945 2946 3097 7795  
*Anthonomus musculus* 3037  
*Apion* 4023  
*Aracanthus* 753  
*Ceutorhynchus litura* 3403  
*Chalcodermus* 941 942 943 953  
*Chalcodermus aeneus* 336 337 733 734  
 735 736 738  
*Conotrachelus nenuphar* 1016 8260  
 8261 8262 8263  
*Cosmopolites* 1833  
*Cosmopolites sordidus* 1483 4798 4799  
*Curculio caryae* 2676  
*Cyrtopistomus castaneus* 2270  
*Diaprepes abbreviata* 412 416 433  
*Geraeus senilis* 3310 3311  
*Heilipodus erythropus* 8461  
*Hypera postica* 1389 1398 1399 1515  
 2199 2200 4038 4049  
*Listronotus oregonensis* 2983 2984  
 2985 2986  
*Metamasius* 842  
*Metamasius callizona* 5986  
*Metamasius hemipterus* 2642  
*Oryzophagus oryzae* 3098  
*Otiiorhynchus ligustici* 6884 6885  
*Otiiorhynchus sulcatus* 815 1073 1074  
 1075 6552 7763 8078  
*Phlyctinus callosus* 8756 8757  
*Premnotryes latithorax* 5983 5984  
*Premnotryes vorax* 2248  
*Rhynchites aequatus* 8037  
*Rhynchites baccus* 8668  
*Rhynchophorus ferrugineus* 6903  
*Rhynchophorus palmarum* 13506  
*Sitona* 1647 8077  
*Sitona discoideus* 816 1153 1154 1155  
 1163 1164 1171 1172 1173 1174  
 1175 1176 1177 1178 1179 1180  
 1181 1183 1185 1188 1189 1190  
 1191 1309 1311 1312 1313 1811  
 1815 1816 1817 1818 1819 1820  
 1821  
*Sitona humeralis* 1491  
*Sitona lineatus* 1156 1157 1158 1159  
 1160 1161 1162 1165 1167 1168  
 1169 1170 1182 1192 1193 1194  
 1306 4013 4015 4016 4019 4021  
 4041  
*Sitophilus* 7764 7773 7774  
*Sternechus subsignatus* 1450

[Coleoptera: Curculionidae: Apioninae]  
*Cylas formicarius elegantulus* 5981  
 5982

[Coleoptera: Curculionidae: Scolytinae]  
*Xylosandrus compactus* 12620

[Coleoptera: Elateridae]  
 Unknown species 150 784 804 5670

[Coleoptera: Lagriidae]  
*Lagria vilosa* 2961

[Coleoptera: Lampyridae]	13586 13587 13588 13589 13590	[Diptera: Tipulidae]	
<i>Cratomorphus daphanus</i> 8464	13591 13592 13593 13594 13596	<i>Tipula paludosa</i> 6565	
[Coleoptera: Languriidae]	13597 13598	[Hemiptera]	
Unknown species 3457	<i>Ips stenographus</i> 6900	Unknown species 5978 7583	
[Coleoptera: Nitidulidae]	<i>Ips typographus</i> 7525 7526 12957 12958	[Hemiptera: Adelgidae]	
Unknown species 325	12960 12961 12962 12964 12965	<i>Adelges tsugae</i> 5170 5171 5767 5768	
[Coleoptera: Pythidae]	12966 12967 12968 12970 12971	5769 5770 5796 6027	
<i>Pytho</i> 1854	12973 12974 12975 12977 12978	[Hemiptera: Aleyrodidae]	
[Coleoptera: Rhizophagidae]	12979 12980	<i>Bemisia tabaci</i> 4981 4982 4983 4984	
<i>Rhizophagus grandis</i> 1848	<i>Tomiscus minor</i> 4980 5071	5274 5275 5276 5277 5278 5279	
[Coleoptera: Scarabaeidae]	[Coleoptera: Staphylinidae]	5280 5281 5282 5283 5284 5285	
Unknown species 6058 6686 7264	Unknown species 3112 4055	5287 5288 5289 5290 5291 5292	
<i>Adoryphorus coulunii</i> 4135 4136 4642	<i>Anotylus rugosus</i> 4051 4056	5293 5294 5295 5296	
<i>Ancognatha scarabaeoides</i> 2249 2250	<i>Anotylus</i> sp. 4046	<i>Trialeurodes vaporariorum</i> 6920 6921	
<i>Anomala cuprea</i> 1683	<i>Gyrophypnus angustatus</i> 4054	6922 6923 6924 9451	
<i>Anoplognathus</i> 8763	<i>Tachyporus</i> sp. 4028	[Hemiptera: Anthocoridae]	
<i>Aphodius tasmaniae</i> 8079	[Coleoptera: Tenebrionidae]	<i>Anthocoris nemorum</i> 8028	
<i>Pachnoda interrupta</i> 6669 6676 6681	Unknown species 757 783 787 6057	[Hemiptera: Aphididae]	
<i>Phyllophaga</i> 5740 5741 5742 5743 5744	6064 6077 6078 6096 6113 6478	Unknown species 3120 4523 4524	
5745	6483	<i>Aphis gossypii</i> 5493 5494	
<i>Popillia japonica</i> 3716 3717 5148 5150	<i>Alphitobius diaperinus</i> 5836 5838 5839	<i>Diuraphis noxia</i> 2861 2864 2879 2882	
<i>Rhopaea magnicornis</i> 4130 7813 8853	5840 5843 7941	3154 3155 3156 3157 3158 3166	
8854	<i>Pterohelaeus darlingensis</i> 8065	3167 3168 3169 3215 3867 3890	
<i>Sericesthis nigrolineata</i> 7853	<i>Tenebrio molitor</i> 5623 8038	3891 3892 3893 3905 3906 3907	
[Coleoptera: Scolytidae]	[Coleoptera: Adepaga]	3908 4099 4100 4101 4105 4106	
Unknown species 1566 3040	Unknown species 5672	4107 4108 4109 4110 4111 4112	
<i>Dendroctonus ponderosae</i> 1849 1853	[Collembola: Sminthuridae]	4113 4114 4115 4116 4117 4118	
<i>Dryocoetes confusus</i> 1852 9184	<i>Sminthurus viridis</i> 5853	4119 4120 4121 4462 4463 4464	
<i>Hypothenemus hampei</i> 1480 2685 2686	[Dermaptera]	4691 4692 4693 4694 4695 4696	
2687 2688 2689 2690 2691 2692	Unknown species 796 5495 5496 5991	4697 4976 4977 4978 4979 5705	
2693 3440 3443 3445 3448 3453	7252	6968 6969 6978 6979 6980	
3818 3819 5436 5437 5438 5439	[Dermaptera: Forficulidae]	<i>Myzus persicae</i> 3385	
5440 5441 5442 5443 5444 5445	<i>Doru lineare</i> 8374 8465	<i>Rhopalosiphum padi</i> 6970	
5446 5447 5448 5449 5450 5451	<i>Forficula africana</i> 5650 5651 5652	<i>Schizaphis graminum</i> 2336 2860 2880	
5452 5453 5454 5455 5456 5457	<i>Forficula auricularia</i> 3018	2881 2883	
5458 5459 5460 5477 5478 5479	[Diptera: Mantidae]	[Hemiptera: Cercopidae]	
5480 5481 5482 5483 5484 5485	Unknown species 7236 7238	<i>Deois flavopicta</i> 806 3019	
5486 5487 5488 5489 5490 6526	[Diptera]	<i>Zulia carbonaria</i> 6459	
6527 6528 6529 6530 6531 6532	Unknown species 1962 2454 7269 8707	<i>Zulia entreriana</i> 477	
7758 10471 12573 12574 12575	8712 10141 10149	[Hemiptera: Cicadellidae]	
12576 12577 12578 12579 12580	[Diptera: Anthomyiidae]	Unknown species 945 7590 8710 8711	
12581 12582 12583 12584 12585	<i>Delia antiqua</i> 1864 1865 1866	9443	
12586 12587 12588 12589 12590	<i>Delia radicum</i> 1151 4012 6553 6555	<i>Balacha melanocephala</i> 7464 7465	
12591 12592 12593 12594 12595	6563 6564 6568	7467 7469 8370 8459 8460 8528	
12596 12597 12598 12599 12600	<i>Pegoplatia aestiva</i> 8031	8529	
12601 12602 12603 12604 12605	[Diptera: Calliphoridae]	<i>Empoasca kraemeri</i> 1963	
12606 12607 12608 12609 12610	<i>Calliphora</i> 1630	<i>Molopopterus theae</i> 6982	
12611 12612 12613 12614 12615	[Diptera: Ephydriidae]	<i>Nephotettix bipunctata cincticeps</i> 708	
12616 12617 12618 12619 12805	Unknown species 6567	1553 1554 1555 1556	
12806 12807 12808 12809 12810	<i>Scatella tenuicosta</i> 8245 8246 8247	<i>Nephotettix cincticeps</i> 1098	
12811 12812 12813 12814 12815	[Diptera: Muscidae]	<i>Pawiloma victima</i> 8371	
12816 12821 12891 12892 12893	Unknown species 1955 10142 11845	[Hemiptera: Cicadidae]	
12894 13402 13403 13404 13405	<i>Haematobia irritans</i> 5862 5864 5865	Unknown species 2544 7256 7258	
13515 13516 13517 13518 13519	5866	11712	
13520 13521 13522 13523 13524	<i>Musca autumnalis</i> 1514	[Hemiptera: Cixiidae]	
13525 13526 13527 13528 13529	<i>Musca domestica</i> 2953 5339 5340 5341	<i>Oliarus dimidiatus</i> 7776	
13530 13531 13532 13533 13534	5342 5343 5344 5345 5346 5347	[Hemiptera: Coccidae]	
13535 13536 13541 13542 13543	5861 5863 7049 7940 13813	Unknown species 6723	
13544 13545 13546 13547 13548	[Diptera: Psychodidae]	[Hemiptera: Coreidae]	
13549 13550 13551 13552 13553	<i>Phlebotomus papatasi</i> 2972	<i>Leptoglossus fulvicornis</i> 3086	
13554 13555 13556 13557 13558	[Diptera: Sciaridae]	[Hemiptera: Delphacidae]	
13559 13560 13561 13562 13563	Unknown species 6566	<i>Nilaparvata lugens</i> 654 679 709 714	
13564 13565 13566 13567 13568	[Diptera: Syrphidae]	717 719 2427 7592	
13569 13572 13573 13574 13575	<i>Eristalis latifrons</i> 710	[Hemiptera: Fulgoridae]	
13576 13577 13578 13579 13580	[Diptera: Tachinidae]	<i>Lycorma delicatula</i> 13815 13816 13817	
13581 13582 13583 13584 13585	Unknown species 1150		

[Hemiptera: Lygaeidae]	6149 8932 10348 10349 10351	<i>Reticulitermes flavipes</i> 3041
Unknown species 8706	10352 10353 10354 10355 10356	[Lepidoptera]
<i>Blissus leucopterus</i> 792 2430	10357 10358 10359 10361 10362	Unknown species 537 2633 2637 2857
<i>Scolopostethus affinis</i> 8027	11618 11619 11620	6109 6557 7274 7585 7593 8709
[Hemiptera: Membracidae]	[Hemiptera: Tingidae]	9445 11708 11715 11716 11717
Unknown species 3312 3999	<i>Corythucha ciliata</i> 812	11719
<i>Kronides</i> 7468	<i>Leptopharsa heveae</i> 7984 8637 8638	[Lepidoptera: Arctiidae]
<i>Spissistilus festinus</i> 8318	[Heteroptera]	<i>Hyphantria cunea</i> 1564 12165
[Hemiptera: Mesoveliidae]	Unknown species 4057	[Lepidoptera: Bombycidae]
<i>Mesovelia mulsanti</i> 320	[Heteroptera: Miridae]	<i>Bombyx mori</i> 302 303 304 305 718 987
[Hemiptera: Miridae]	Unknown species 4035	1007 2737 5704
Unknown species 3449 3454 3456	<i>Lygus sp.</i> 4053	[Lepidoptera: Brassolidae]
<i>Adelphocoris</i> 1516 1517 1523 1524	[Hymenoptera]	<i>Brassolis sophorea</i> 2619 6514
1525 1526 1527 1528 1529 1531	Unknown species 7239 7254 7257 7259	[Lepidoptera: Cossidae]
1533 1534 1535 1536 1537 1538	7265	<i>Cossula cossus</i> 1103 1104 1558
1539 1540 1635 1636 1637 1638	[Hymenoptera: ?Megachilidae]	<i>Zeuzera pyrina</i> 1105
1640 1643 1650 1789 1790 1791	Unknown species 957	[Lepidoptera: Danaidae]
1792 1793 1794 1795 1796 1797	[Hymenoptera: Superfamily Apoidea]	<i>Danaus plexippus</i> 7093 8891
1798 1799 1800 1801	Unknown species 1468	[Lepidoptera: Eupterotidae]
<i>Leptopterna dolabrata</i> 8036	[Hymenoptera: Apidae]	Unknown species 6984
<i>Liocoris tripustulatus</i> 8025	<i>Apis mellifera</i> 5989 7596 9447	[Lepidoptera: Geometridae]
<i>Lygus</i> 886 1394 1395 1396 1397 1404	<i>Bombus</i> 7201	<i>Isturgia exerrariae</i> 6973
1405 1406 1407 1408 1409 1410	[Hymenoptera: Apoidea]	[Lepidoptera: Hepialidae]
1411 1412 1413 1414 1520 1521	Unknown species 9595	<i>Oncopera albuguttata</i> 4589 4607 8493
1648 1649 1802 1803 1804 1805	[Hymenoptera: Cephidae]	<i>Oncopera intricata</i> 4258 4672
1806 1807 1808 1809 1810 1812	<i>Cephus</i> 6793 6794 6795	[Lepidoptera: Hyblaeidae]
1813 1814 1822 2318 2319 2320	[Hymenoptera: Diprionidae]	<i>Hyblaea puer</i> 2597
2321 2322 2458 2462	<i>Diprion pini</i> 338 339	[Lepidoptera: Incurvariidae]
<i>Lygus ?lineolaris</i> 1317 1318 1319 1320	[Hymenoptera: Eurytomidae]	<i>Paraclemensia</i> 11614 11615 11616
1321 1322 1323 1324 1325	<i>Bephratelloides cubensis</i> 2869	11617
<i>Lygus hesperus</i> 6660 6661	[Hymenoptera: Formicidae]	<i>Paraclemensia acerifoliella</i> 5492
<i>Lygus lineolaris</i> 3769 5808 8317 8889	Unknown species 1960 2487 5069 7260	[Lepidoptera: Lasiocampidae]
<i>Lygus pratensis</i> 2461	12023 12024 12025 12026	<i>Dendrolimus spectabilis</i> 1677
<i>Notostira elongata</i> 8029 8030	<i>Atta</i> 1831 3285	<i>Malacosoma americanum</i> 1
<i>Stenodema laevigatum</i> 8026	<i>Atta mexicana</i> 2484 2485 2486	[Lepidoptera: Lymantriidae]
[Hemiptera: Nabidae]	<i>Myrmica rubra</i> 7533 7534	<i>Lymantria dispar</i> 155 2054 2267 2570
<i>Nabis</i> 1988	<i>Pogonomyrma occidentalis</i> 7540 7541	2571 2572 2573 2831 3404 3527
[Hemiptera: Pentatomidae]	<i>Solenopsis</i> 2722 2723	3530 6205
Unknown species 737 944 1973 1974	<i>Solenopsis invicta</i> 2401 2402 2403	<i>Lymantria dissoluta</i> 6233
1984 6722	2404 5956 5957 5960 5961 5962	[Lepidoptera: Lyonetiidae]
<i>Acanthosoma labiduroides</i> 7240 7246	5967 5973 5974	<i>Leucoptera coffeella</i> 6801 6802 6803
7273	<i>Solenopsis quinquecupis</i> 5966 5968	6804 6805 6806 6807 6808 6809
<i>Aelia</i> 6093	<i>Solenopsis saevissima</i> 5958 5963 5965	<i>Leucoptera scitella</i> 1115 1117
<i>Dolycorus</i> 6404 6426	5969	[Lepidoptera: Noctuidae]
<i>Euschistus heros</i> 1478	<i>Solenopsis xyloni</i> 5970 5971 5972	Unknown species 1627 1628 1629
<i>Nezara viridula</i> 1054 1474 2011 2457	[Hymenoptera: Formicidae: Myrmicinae]	<i>Autographa gamma</i> 2253 2254
2516 4092 4093	Unknown species 1976 1977 1978 1979	<i>Helicoverpa</i> 8066
<i>Oebalus poecilus</i> 2191	[Hymenoptera: Ichneumonidae]	<i>Helicoverpa armigera</i> 1149 1166
<i>Podisus</i> 1457 2519	Unknown species 9448	<i>Helicoverpa virescens</i> 1314 1315 1316
<i>Tibraca limbativentres</i> 933 4091	[Hymenoptera: Megachilidae]	1788
[Hemiptera: Plataspidae]	Unknown species 7377 7378	<i>Panolis flammea</i> 6100 6101 6177 6178
<i>Megacopta cribraria</i> 13430	[Hymenoptera: Pamphiliidae]	<i>Sesamia calamistis</i> 5649 5654
[Hemiptera: Pseudococcidae]	Unknown species 7519 7520 7521	<i>Sesamia cretica</i> 1118
<i>Rhizoecus</i> 2236	<i>Pamphilius betulae</i> 154	<i>Simyra henrici</i> 5988
[Hemiptera: Reduviidae]	[Hymenoptera: Pergidae]	<i>Spodoptera frugiperda</i> 3288
<i>Triatoma infestans</i> 7147	<i>Lophyrotoma zonalis</i> 8753	<i>Spodoptera littoralis</i> 1512 1513 3286
[Hemiptera: Rhopalidae]	[Hymenoptera: Siridae]	<i>Spodoptera litura</i> 6643 6644 6646 6647
<i>Leptocoris</i> 560 566	<i>Sirex noctilio</i> 12249	6648 6650
<i>Leptocoris oratorius</i> 1269 1270	[Hymenoptera: subord. Symphyta]	[Lepidoptera: Noctuidae: Plusiinae]
[Hemiptera: Scutelleridae]	Unknown species 5985	Unknown species 3937
<i>Eurygaster</i> 5665 5674 5725 5753 5762	[Hymenoptera: Vespidae]	[Lepidoptera: Olethreutidae]
6008 6009 6011 6013 6014 6016	Unknown species 730 1953 2943 2944	<i>Carpocapsa pomonella</i> 503
6019 6039 6040 6041 6042 6056	<i>Polistes</i> 6513	[Lepidoptera: Phycitinae]
6060 6065 6066 6067 6069 6070	[Isoptera: Rhinotermitidae]	<i>Emmalocera depressella</i> 2417
6072 6073 6076 6079 6083 6086	<i>Coptotermes formosanus</i> 6906 6907	
6087 6088 6089 6090 6091 6115	6908	

[Lepidoptera: Plutellidae]	[Orthoptera]	12447 12448 12449 12450 12451
<i>Plutella xylostella</i> 2727 2728 2729 4525	Unknown species 3622 6231 8704 9598	12517 12518 12519 12520 12521
4526 4527 4528 4529 4530 4531	[Orthoptera: Acrididae]	12522
4532 4533 4534 4535 4536 4537	Unknown species 356 357 1053 1326	[Coleoptera: Scolytidae]
4538 4539 4540 4541 4542 4543	1959 5737 5738 6230 6232 7030	<i>Hypothenemus hampei</i> 12982 12983
6150 6151 6152 6153 12822	7235 7250 8578 8579 8695 11713	12984 12985 12986 12987 12988
[Lepidoptera: Pyralidae]	11720	12989 12990 12991 12992 12993
<i>Acigona sp.</i> 5647 5648	<i>Anacridium aegyptium</i> 3607	12994 12995 12996 12997 12998
<i>Chilo plejadellus</i> 326	<i>Aulocara elliotti</i> 12207 12213 12214	12999 13000 13001 13002 13003
<i>Cnaphalocrocis medinalis</i> 2041 2349	12232 12233 12234 12235 12236	13004 13005 13006 13007 13008
<i>Coniesta sp.</i> 5646	<i>Austracris guttulosa</i> 8751 8752	13009 13010 13011 13012 13013
<i>Diatraea saccharalis</i> 1484 1832 1834	<i>Locusta migratoria</i> 8846	13014 13015 13016 13017 13018
2629 3020 3858 5500 5502	<i>Melanoplus</i> 3620 3866 3897 3898 5273	13019 13020 13046 13047 13048
<i>Dioryctria sylvestrella</i> 1001	12209 12221 12223 12224 12225	13049 13050 13051 13052 13053
<i>Eldana saccharina</i> 5645 5653 5655	<i>Melanoplus bivittatus</i> 8213 12196	13054 13055 13056 13057 13058
<i>Galleria mellonella</i> 1113 1114 5510	12200	13059 13060 13061 13062 13063
6147 6148 6556 6894 6904 6905	<i>Melanoplus confusus</i> 12208 12210	13064 13065 13066 13067 13068
6931 6932 6933 6934 6935 6936	12211 12218	13069 13070 13071 13072 13073
6937 6938 6939 6940 6941 6943	<i>Melanoplus dawsonii</i> 12220 12230	13074 13075 13076 13077 13078
6949 6950 6951 6952 6953 7060	12237 12238	13079 13080 13081 13082 13083
7356 7357 7358 7359 7360 7361	<i>Melanoplus femurrubrum</i> 12204	13084 13085 13086 13087 13089
7362 7364 7365 7366 7367 7552	<i>Melanoplus infantilis</i> 12231	13090 13091 13092 13093 13094
7553 7554 7955 7956 7957 7958	<i>Melanoplus sanguinipes</i> 12197 12198	[Diptera: Culicidae]
7959 7963 7964 7965 7966 7968	12199 12201 12202 12203 12205	Unknown species 13255
8032 8033 8035 8039 8040 8339	12206 12212 12215 12216 12217	[Diptera: Muscidae]
8340 8343 8349 8354 8355 8431	12222 12226 12227 12228 12229	<i>Haematobia irritans</i> 13303 13304
8444 8661 8663 8664 8666 8667	12239	13305 13306 13307
8670 8672 8673 8674 11613	<i>Oxyops vitiosa</i> 5987	[Hemiptera: Pentatomidae]
<i>Gymnancyla canella</i> 6796	<i>Phoetaliotes nebrascensis</i> 12219	<i>Bagrada hilaris</i> 13167 13168 13169
<i>Ostrinia nubilalis</i> 501 502 533 652	<i>Rhammatocerus schistocercoides</i> 7983	[Hymenoptera: Cephidae]
1038 1121 2976	<i>Schistocerca gregaria</i> 5633 5634 5635	<i>Cephus cinctus</i> 12462 12463 12464
<i>Terastia meticulosalis</i> 1836	5636 5637 5638 5639 5640 5641	12465 12467 12468 12469 12470
[Lepidoptera: Saturniidae]	5642 5643	12471 12472 12473 12474 12475
Unknown species 843	[Orthoptera: Catantopidae]	12476 12477 12478 12479 12480
<i>Opodiphthera eucalypti</i> 8843	<i>Calliptamus italicus</i> 8694 8697	12482 12484 12485 12486 12487
<i>Schirius</i> 2962	[Orthoptera: Gryllotalpidae]	12488 12489 12490 12491 12492
[Lepidoptera: Sesiidae]	<i>Gryllotalpa gryllotalpa</i> 11688	12493 12494 12495 12496 12497
<i>Monopetalotaxis doleriformis</i> 6974	<i>Scapteriscus vicinus</i> 5977	12498 12499 12500 12501 12502
6975 6976 6977 6981	[Orthoptera: Tettigoniidae]	12503 12504 12505 12506 12507
[Lepidoptera: Stenomatinae]	<i>Anabrus simplex</i> 7379 7380	12508 12509 12510 12512 12513
<i>Stenoma decora</i> 1479	[Orthoptera: Tettigonioidea]	12514 12515 12525 12920 12921
[Lepidoptera: Thaumetopoeidae]	Unknown species 6234	12922 12923 12924 12925 12926
<i>Thaumetopoea pityocampa</i> 8356	[Perissodactyla: Equidae]	12927 12928 12929 12930 12931
[Lepidoptera: Tortricidae]	<i>Equus ferus caballus</i> 7771 7772	12932 12933 12934 12935 12936
Unknown species 5169	[Primates: Hominidae]	12937 12938 12939 12940 12942
<i>Choristoneura</i> 1850	<i>Homo sapiens</i> 8601 8602	12943 12944 12945 12946 12947
<i>Cydia pomonella</i> 151 1122 3972 3973	[Thysanoptera: Phlaeothripidae]	12948 12949 12950 12951 12952
3974 3975 3977 3978 3979 5063	<i>Haplothrips tritici</i> 4200	12953 12954 12955 12956 13310
5064 5065 5066 5067 5068 5228	[Thysanoptera: Thripidae]	13311 13312 13330 13331 13332
5229 5230 5231 5232 5233 5234	Unknown species 9927 11841 11846	13333 13334 13335 13336 13337
5235 5886 5887 5888 6182 6184	11847 11848	13338 13339 13340 13341 13342
6186 6187 6189 6191 6194 6195	<i>Frankliniella occidentalis</i> 3995 3996	13343 13344 13345 13346 13347
6196 6201 6208 6209 7969	9587 9588	[Hymenoptera: Vespidae]
<i>Hedya nubiferana</i> 6199	<i>Taeniothrips inconsequens</i> 10138	Unknown species 13369
<i>Lobesia botrana</i> 1107 1110	10139 10140 10143 10144 10145	[Lepidoptera: Pyralidae]
<i>Rhyacionia frustrana</i> 5573	10147 10148	Unknown species 13258 13259
[Lepidoptera: Yponomeutidae]	<b>Beauveria bassiana sensu lato</b>	[Orthoptera: Acrididae]
<i>Yponomeutidae</i> 3966 3967 3968 3969	[Coleoptera: Chrysomelidae]	<i>Ageneotettix deorum</i> 12414 12425
3970 3971	<i>Diabrotica virgifera virgifera</i> 14001	12432
[Neuroptera: Chrysopidae]	14002	<i>Aulocara elliotti</i> 12253 12263 12269
<i>Chrysopa</i> 153	[Coleoptera: Curculionidae]	12274 12275 12276 12277 12278
[Odonata: Coenagrionidae]	Unknown species 13257	12279 12284 12287 12288 12289
Unknown species 11711	<i>Hypera postica</i> 12434 12435 12436	12290 12291 12293 12294 12295
[Odonata: suborder Anisoptera]	12437 12438 12439 12440 12441	12296 12299 12301 12302 12305
Unknown species 4688	12442 12443 12444 12445 12446	12306 12307 12309 12323 12336
		12412 12413

<i>Aulocara femoratum</i> 12262 12266 12280 12281 12530	[Lepidoptera: Pyralidae] <i>Eldana saccharina</i> 5644 <i>Galleria mellonella</i> 6892	<b>Beauveria kipukae</b> [Hemiptera: Delphacidae] Unknown species 7032
<i>Camnula pellucida</i> 12285 <i>Hadrotettix</i> 12283		<b>Beauveria lii</b> [Coleoptera: Coccinellidae] <i>Henosepilachna vigintioctopunctata</i> 11741
<i>Melanoplus</i> 12297 12419 12420 12421 12426 12427 12428	<b>Beauveria brongiartii</b> [Coleoptera] Unknown species 2660	<b>Beauveria malawiensis</b> [Coleoptera: Cerambycidae] <i>Phoracantha semipunctata</i> 7760
<i>Melanoplus bivittatus</i> 12252 12254 12255 12258 12265 12268 12271 12308 12332 12356 12357 12358 12359 12367 12369 12370 12376 12379 12380 12389 12397 12403 12404 12415 12416 12418 12423 12431 12572 13173	[Coleoptera: Carabidae] Unknown species 7268 [Coleoptera: Cerambycidae] <i>Anoplophora malasiaca</i> 6235 6412 <i>Niphonoclea</i> 1431 [Coleoptera: Curculionidae] <i>Barypeithes pellucida</i> 6213 6214 6215 <i>Cyrtopistomus castaneus</i> 2271	<b>Beauveria pseudobassiana</b> [Acari: Ixodidae] <i>Ixodes scapularis</i> 8045 8046 [Acari: Varroidea] <i>Varroa destructor</i> 8254 8256 8258 [Coleoptera] Unknown species 5668 [Coleoptera: Anthicidae] <i>Anthicus floralis</i> 157 [Coleoptera: Cerambycidae] Unknown species 2557 [Coleoptera: Chrysomelidae] <i>Paropsis charybdis</i> 3066 [Coleoptera: Coccinellidae] Unknown species 5678 [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 813 814 3065 <i>Sitona</i> 3063 [Coleoptera: Scarabaeidae] Unknown species 5669 <i>Adoryphorus coultonii</i> 4274 4721 <i>Aphodius tasmaniae</i> 3070 <i>Costelytra zealandica</i> 3055 [Coleoptera: Scolytidae] <i>Ips</i> 1855 <i>Ips typographus</i> 12959 12976 12981 <i>Tomicus minor</i> 4933 5070 [Coleoptera: Scolytidae (Tribe Ipini)] Unknown species 6229 [Coleoptera: Tenebrionidae] <i>Tribolium castaneum</i> 5622 [Crocodylia: Alligatoridae] <i>Alligator mississippiensis</i> 2455 [Diptera: Muscidae] <i>Haematobia irritans</i> 5867 [Hemiptera: Aphididae] Unknown species 3121 <i>Diuraphis noxia</i> 3153 [Hemiptera: Scutelleridae] <i>Eurygaster</i> 5724 6015 6022 6043 [Hymenoptera] Unknown species 7242 [Hymenoptera: Cephidae] <i>Cephus cinctus</i> 12240 12241 12242 12243 12244 12245 12246 12247 12248 13309 13313 13314 13315 13316 13317 13318 13319 13320 13321 13322 13323 13324 13325 13326 13327 13328 13329
<i>Melanoplus confusus</i> 12264 12282 12298 12303 12304 12312 12334 12372 12391 12406 12529	[Coleoptera: Elateridae] Unknown species 9452 [Coleoptera: Scarabaeidae] Unknown species 4380 4381 <i>Anomala costata</i> 985 <i>Costelytra zealandica</i> 3054 7761 <i>Holotrichia parallela</i> 4385 4386 4388 4465 4466 4467 4468 4469 4470 4471 4472 4473 4475 4476 4477 4478 <i>Melolontha</i> 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364 <i>Melolontha melolontha</i> 617 979 1067 1068 1069 1070 1071 1072 1076 1077 7528 <i>Popillia japonica</i> 4389 4458 4991 4992 4993 4994 4995	
<i>Melanoplus dawsonii</i> 12410	[Coleoptera: Elateridae] Unknown species 9452	
<i>Melanoplus femurrubrum</i> 12261 12267 12270 12292 12324 12325 12327 12331 12366 12373 12374 12387 12392 12393 12398 12399 12400 12401 12405 12408 12526 12527 12528 12535	[Coleoptera: Scarabaeidae] Unknown species 4380 4381 <i>Anomala costata</i> 985 <i>Costelytra zealandica</i> 3054 7761 <i>Holotrichia parallela</i> 4385 4386 4388 4465 4466 4467 4468 4469 4470 4471 4472 4473 4475 4476 4477 4478 <i>Melolontha</i> 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364 <i>Melolontha melolontha</i> 617 979 1067 1068 1069 1070 1071 1072 1076 1077 7528 <i>Popillia japonica</i> 4389 4458 4991 4992 4993 4994 4995	
<i>Melanoplus infantilis</i> 12411	[Coleoptera: Scolytidae] <i>Ips typographus</i> 4024	
<i>Melanoplus sanguinipes</i> 12256 12257 12259 12260 12272 12273 12286 12300 12310 12311 12313 12314 12315 12316 12317 12318 12319 12320 12321 12322 12326 12328 12329 12330 12333 12335 12337 12360 12361 12362 12363 12364 12365 12368 12371 12375 12377 12378 12381 12382 12383 12384 12385 12386 12388 12390 12394 12395 12402 12407 12417 12422 12424 12429 12430 12533 12534	[Hemiptera: Cicadellidae] <i>Nephotettix bipunctata cincticeps</i> 678 [Hemiptera: Cicadidae] <i>Magicicada septendecim</i> 7376 [Hemiptera: Scutelleridae] <i>Eurygaster</i> 6023 [Hymenoptera: Formicidae] <i>Myrmica rubra</i> 7058 [Lepidoptera: Castniidae] <i>Castnia licus</i> 1481 1829 [Lepidoptera: Noctuidae] Unknown species 9599 [Lepidoptera: Pyralidae] <i>Diatraea saccharalis</i> 1482 1830 <i>Galleria mellonella</i> 7555 7556 7557 7558 7559 7560 7561 8034	
[Orthoptera: Tettigoniidae] <i>Anabrus simplex</i> 14003 14004		
<b>Beauveria bassiana sensu stricto</b> [Coleoptera] Unknown species 13750 13751 [Coleoptera: Chrysomelidae] Unknown species 751 [Hemiptera: Lygaeidae] <i>Nysius vinitor</i> 300 [Hemiptera: Phylloxeroidea] <i>Viteus vitifoliae</i> 13754 [Hymenoptera: Pamphiliidae] Unknown species 7518		
<b>Beauveria bassiana(?)</b> [Chelonia: Emydidae] <i>Trachemys scripta</i> 5990 [Coleoptera: Chrysomelidae] Unknown species 6890 6891 [Coleoptera: Scolytidae] <i>Dendroctonus micans</i> 9271 [Hemiptera: Adelgidae] <i>Adelges tsugae</i> 5815 5816 5817 5818 [Hemiptera: Aphididae] <i>Diuraphis noxia</i> 6608 [Hemiptera: Scutelleridae] <i>Eurygaster</i> 5684 [Hymenoptera: Formicidae] <i>Solenopsis invicta</i> 5959		
	<b>Beauveria caledonica</b> [Coleoptera] Unknown species 2251 [Coleoptera: Scarabaeidae] <i>Amphimallon solstitialis</i> 8024 [Coleoptera: Scolytidae] Unknown species 1567 <i>Ips typographus</i> 12963 12969 12972 [Orthoptera: Gryllacrididae] Unknown species 7117	
	<b>Beauveria hoplocheli</b> [Coleoptera: Melolonthidae] <i>Hoplochelus marginalis</i> 13021	

## Host by Fungus

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- [Hymenoptera: Vespidae]  
*Vespula vulgaris* 2997
- [Lepidoptera: Arctiidae]  
*Hyphantria cunea* 1565
- [Lepidoptera: Geometridae]  
*Isturgia exerrariae* 6972
- [Lepidoptera: Hepialidae]  
*Oncopera* 4273
- [Lepidoptera: Lymantriidae]  
*Lymantria dispar* 299 3405 3528 3529
- [Lepidoptera: Pyralidae]  
Unknown species 13260 13261 13262  
13263  
*Galleria mellonella* 5370 5557
- [Lepidoptera: Sesiidae]  
*Monopetalotaxis doleriformis* 6971
- [Lepidoptera: Tortricidae]  
*Cydia pomonella* 3220 6181 6185
- [Lepidoptera: Yponomeutidae]  
*Yponomeutidae* 3965
- [Orthoptera: Acrididae]  
*Phaulacridium vittatum* 4150
- [Thysanoptera: Thripidae]  
*Thrips calcaratus* 3216

### **Beauveria sungii**

- [Coleoptera: Chrysomelidae]  
Unknown species 7279 7280
- [Coleoptera: Scarabaeidae]  
Unknown species 5689  
*Lachnosterna morosa* 1685
- [Hymenoptera]  
Unknown species 7281

### **Beauveria varroae**

- [Acari: Varroidae]  
*Varroa destructor* 8257 8259
- [Coleoptera: Curculionidae]  
*Larinus* 2694

Animalia

Arthropoda • Arachnida

Acari: Ixodidae

Hungary

*Beauveria bassiana* 6967

*Ixodes scapularis*

*Beauveria bassiana* 6897

USA, Minnesota

*Beauveria pseudobassiana* 8045  
8046

Acari: Varroidae

*Varroa destructor*

France

*Beauveria bassiana* 8255

*Beauveria pseudobassiana* 8254  
8256 8258

*Beauveria varroae* 8257 8259

Araneida

Denmark

*Beauveria bassiana* 4042

France

*Beauveria* sp. 1669

Russian Federation

*Beauveria bassiana* 9446

*Beauveria* sp. 7582

Araneida: Araneae

Ethiopia

*Beauveria bassiana* 6690

*Beauveria* sp. 6691

USA, Vermont

*Beauveria bassiana* 5172 5173

*Beauveria* sp. 5174 5187

Prostigmata: Eriophyidae

*Phytoptus avellanae*

Republic of Georgia

*Beauveria* sp. 13755 13756

Arthropoda • Entognatha

Collembola: Sminthuridae

*Sminthurus viridis*

Denmark

*Beauveria bassiana* 5853

Arthropoda • Insecta

Coleoptera

Argentina

*Beauveria bassiana* 7470

Brazil, Pará

*Beauveria caledonica* 2251

Brazil, Goiás

*Beauveria bassiana* 754

Canada, British Columbia

*Beauveria bassiana* 7972

Ethiopia

*Beauveria bassiana* 6692 6693 6695  
6696 6697

France

*Beauveria bassiana* 1980

India

*Beauveria brongniartii* 2660

Location not specified

*Beauveria bassiana* 293 4382

Philippines

*Beauveria bassiana* 3197 3198 3199

Poland

*Beauveria bassiana* 301

PR China

*Beauveria bassiana* 7164

Republic of Georgia

*Beauveria bassiana* sensu stricto  
13750 13751

Republic of Korea

*Beauveria* sp. 5697

Russian Federation

*Beauveria bassiana* 9444

Turkey

*Beauveria bassiana* 10347

*Beauveria pseudobassiana* 5668

*Beauveria* sp. 5831

Ukraine

*Beauveria* sp. 7595

United Kingdom

*Beauveria bassiana* 6559 6560

USA, Florida

*Beauveria bassiana* 5979

USA, New York

*Beauveria bassiana* 350

Coleoptera: Anthicidae

*Anthicus floralis*

Poland

*Beauveria pseudobassiana* 157

Coleoptera: Anthribidae

*Araecerus fasciculatus*

USA, Florida

*Beauveria bassiana* 413

Coleoptera: Bruchidae

*Caryedon serratus*

France

*Beauveria bassiana* 1186

Coleoptera: Buprestidae

Kyrgyz Republic

*Beauveria bassiana* 6499

*Agrilus planipennis*

Canada, Ontario

*Beauveria bassiana* 10393 10394

10395 10396 10397 10398 10399

10400 10401 10402 10403 10404

10405 10406 10407 10408 10409

10410 10411 10412 10413 10414

10415 10416 10417 10418 10419

10420 10421 10422 10423 10424

10425 10426 10427 10428 10429

10430 10431 10432 10433 10434

10435 10436 10437 10438 10439

10440 10441 10442 10443 10444

10445 10446 10447 10448 10449

10450 10451 10452 10453 10454

10455 10456 10457 10458 10459

10460 10461 10462 10463 10464

10465 10466 10467 10468

USA, Michigan

*Beauveria bassiana* 8771 8772 8773  
8774

*Beauveria* sp. 8110 8111 8112 8113

8116 8117 8119 8120 8121 8122

8123 8124 8125 8126 8127 8128

8129 8130 8132 8133 8134 8135

8136 8137 8138 8139 8140 8141

8143 8144 8145 8146 8147 8148

8149 8150 8151 8152 8153 8154

8156 8158 8159 8160 8161 8164

8166 8167 8168 8169 8170 8171

8172 8173 8174 8175 8176 8177

8178 8180 8181 8182 8185 8186

8187 8188

Coleoptera: Carabidae

Brazil, Mato Grosso

*Beauveria bassiana* 952

Ethiopia

*Beauveria bassiana* 6689

France

*Beauveria bassiana* 1975

Republic of Korea

*Beauveria bassiana* 7241 7270

*Beauveria brongniartii* 7268

Russian Federation

*Beauveria bassiana* 7581

USA, Washington

*Beauveria bassiana* 3386

USA, Hawaii

*Beauveria* sp. 13370

Uzbekistan

*Beauveria bassiana* 6059 6099

*Amara familiaris*

Denmark

*Beauveria bassiana* 4034

*Amara plebeja*

Denmark

*Beauveria bassiana* 4031

*Bembidion lampros*

Denmark

*Beauveria bassiana* 4032

Coleoptera: Cerambycidae

Brazil, Ceará

*Beauveria bassiana* 785

Ecuador

*Beauveria pseudobassiana* 2557

France

*Beauveria bassiana* 5072

Mexico

*Beauveria bassiana* 319

Republic of Korea

*Beauveria bassiana* 6721 7251 7261

7266 7275

Russian Federation

*Beauveria bassiana* 9442

USA, Rhode Island

*Beauveria bassiana* 318

*Anoplophora glabripennis*

PR China

*Beauveria amorpha*(?) 6827

*Beauveria bassiana* 6387 6390 7155

7156 7157 7166 7167 7168 7169

7170 7171 7172 7173 7174 7175

7176 7177 7178 8414



## Fungus by Host and Location

*Coleoptera: Cerambycidae*

*Coleoptera: Chrysomelidae*

- USA, New York  
*Beauveria bassiana* 6391
- USA, Connecticut  
*Beauveria bassiana* 6393
- USA, Illinois  
*Beauveria bassiana* 7152 7153 7154
- USA, New York  
*Beauveria bassiana* 7158 7159 7179  
8412 8413
- Anoplophora malasiaca*  
Japan  
*Beauveria brongniartii* 6235 6412
- Aromia moschata*  
Italy  
*Beauveria bassiana* 1559 1560 1561  
1562 1563
- Dectes texanus*  
USA, Kansas  
*Beauveria bassiana* 6471
- Enaphalodes rufulus*  
USA, Arkansas  
*Beauveria bassiana* 7404
- Moechotypa diphysis*  
Japan  
*Beauveria bassiana* 1678
- Monochamus alternatus*  
Japan  
*Beauveria bassiana* 1679
- Monochamus scutellatus*  
USA, Michigan  
*Beauveria bassiana* 7162 7163
- Niphonoclea* sp.  
Philippines  
*Beauveria brongniartii* 1431
- Ortholeptura valida*  
USA, Oregon  
*Beauveria bassiana* 5997
- Phoracantha semipunctata*  
Malawi  
*Beauveria malawiensis* 7760
- Plectrodera scalator*  
USA, Michigan  
*Beauveria bassiana* 7160 7161 7165
- Psacotha hilaris*  
Japan  
*Beauveria amorpha* 1680  
*Beauveria bassiana* 1041
- Tetropium fuscum*  
Norway  
*Beauveria bassiana* 11660
- Coleoptera: Chrysomelidae**
- Australia  
*Beauveria bassiana* 8835 8836
- Brazil, Goiás  
*Beauveria bassiana* 1971 1451
- Mexico  
*Beauveria bassiana*(?) 6890 6891
- Republic of Kazakhstan  
*Beauveria bassiana* 10350
- Republic of Korea  
*Beauveria bassiana* 7244 7247 7271  
7272  
*Beauveria sungii* 7279 7280
- USA, Vermont  
*Beauveria bassiana* 11844
- Vietnam  
*Beauveria bassiana* sensu stricto  
751
- Yugoslavia, Serbia  
*Beauveria bassiana* 504
- Basilepta fulvicornis*  
India  
*Beauveria* sp. 8250
- Cerotoma* sp.  
Brazil, Mato Grosso  
*Beauveria bassiana* 951
- Brazil, Paraná  
*Beauveria bassiana* 1458
- Brazil, Santa Catarina  
*Beauveria bassiana* 1467
- Cerotoma arcuata*  
Brazil, Amazonas  
*Beauveria bassiana* 731 732 756
- Brazil, Bahia  
*Beauveria bassiana* 2075
- Brazil, Goiás  
*Beauveria bassiana* 931 934
- Crimissa* sp.  
Brazil, Ceará  
*Beauveria bassiana* 786 788 805
- Crimissa cruralis*  
Brazil, Ceará  
*Beauveria bassiana* 4001
- Diabrotica* sp.  
Brazil  
*Beauveria bassiana* 3219
- Brazil, Amazonas  
*Beauveria bassiana* 2512
- Brazil, Goiás  
*Beauveria bassiana* 956 2938 2942
- Brazil, Mato Grosso  
*Beauveria bassiana* 946 947 948 949  
950 982
- Colombia  
*Beauveria bassiana* 721
- Mexico  
*Beauveria bassiana* 3287
- Diabrotica balteata*  
Mexico  
*Beauveria bassiana* 3309
- Diabrotica barberi*  
USA, South Dakota  
*Beauveria bassiana* 2579
- Diabrotica paranaensis*  
Brazil, Goiás  
*Beauveria bassiana* 739 752 758 809
- Brazil, Mato Grosso  
*Beauveria bassiana* 937 938
- Diabrotica speciosa*  
Argentina  
*Beauveria bassiana* 2515 8373
- Brazil, Alagoas  
*Beauveria bassiana* 1954
- Brazil, Bahia  
*Beauveria bassiana* 1961
- Brazil, Goiás  
*Beauveria bassiana* 928 1476 2625  
2626
- Brazil, Paraná  
*Beauveria bassiana* 958 1060 1453  
1454 1455 1461 1462 1463 1466  
1469 2511 2520
- Brazil, Rio Grande do Sul  
*Beauveria bassiana* 1456 1459 1460  
1464 1465 1475
- Brazil, Santa Catarina  
*Beauveria bassiana* 1470 1471 1472  
1473
- Diabrotica undecimpunctata*  
USA, Oregon  
*Beauveria bassiana* 201
- Diabrotica virgifera*  
Mexico  
*Beauveria bassiana* 2330
- USA, Nebraska  
*Beauveria bassiana* 3111
- Diabrotica virgifera virgifera*  
Mexico  
*Beauveria bassiana* 9297 9298 9299  
9300 9301 9302
- USA, Nebraska  
*Beauveria bassiana* sensu lato  
14001
- USA, Illinois  
*Beauveria bassiana* sensu lato  
14002
- Galerucella* sp.  
USA, Texas  
*Beauveria bassiana* 5465
- Galerucina* sp.  
France  
*Beauveria bassiana* 2463
- Leptinotarsa decemlineata*  
Canada, Ontario  
*Beauveria bassiana* 5807
- Canada, Québec  
*Beauveria bassiana* 2987 2988 2989  
2990 2991
- Commonwealth of Independent States  
*Beauveria bassiana* 2695
- France  
*Beauveria bassiana* 149 384 1982
- Germany  
*Beauveria bassiana* 340
- Italy  
*Beauveria bassiana* 1106
- Location not specified  
*Beauveria bassiana* 5286
- Russian Federation  
*Beauveria bassiana* 9441
- USA, New York  
*Beauveria bassiana* 534 535 1039
- USA, Washington  
*Beauveria bassiana* 1079
- USA, New York  
*Beauveria bassiana* 1081 1619 1620  
1621 1622 1623 1624 1775 1776  
1777 1778 1779 1780 1781 2030  
2031 2032 5533 5534 5535 5536  
5537
- USA, Michigan  
*Beauveria bassiana* 5813
- USA, New York  
*Beauveria bassiana* 6986 6987 6988

- USA, Maryland  
*Beauveria bassiana* 8998
- USA, Maine  
*Beauveria bassiana* 33 252 353
- USA, New York  
*Beauveria bassiana* 1704 1705 1706  
1707 1708 1709 1710 1711 1712  
1713 1721 1722 1723 1749 1750
- USA, Rhode Island  
*Beauveria bassiana* 317
- USA, Washington  
*Beauveria bassiana* 344
- Yugoslavia  
*Beauveria bassiana* 505 506 507 510
- Yugoslavia, Croatia  
*Beauveria bassiana* 509
- Yugoslavia, Vovvodina  
*Beauveria bassiana* 508
- Lilioceris lili*  
*Beauveria bassiana* 5195
- Maecolaspis monrosi*  
Argentina  
*Beauveria bassiana* 2509
- Notonata* sp.  
Costa Rica  
*Beauveria bassiana* 3437 3438 3439  
3441 3442 3444 3446 3447 3450  
3451 3452 3455
- Odontota dorsalis*  
*Beauveria bassiana* 5553
- Pachybrachis pallicornis*  
Malaysia  
*Beauveria* sp. 547
- Paropsis charybdis*  
New Zealand  
*Beauveria pseudobassiana* 3066
- Pyrrhalta luteola*  
France  
*Beauveria bassiana* 1509 1510 1511  
1518 1519
- Pyrrhalta viburni*  
Russian Federation  
*Beauveria bassiana* 9449
- Systema* sp.  
Brazil, Goiás  
*Beauveria bassiana* 2079
- Xanthogaleruca luteola*  
Argentina  
*Beauveria bassiana* 5501
- Coleoptera: Chrysomelidae: Hispinae**  
*Beauveria bassiana* 8494
- Coleoptera: Coccinellidae**  
*Beauveria bassiana* 11878
- Republic of Korea  
*Beauveria* sp. 4853
- Russian Federation  
*Beauveria* sp. 7591
- Turkey  
*Beauveria pseudobassiana* 5678  
*Beauveria* sp. 5833
- Uzbekistan  
*Beauveria bassiana* 6055 6061 6062  
6063 6074 6075 6092 6095 6111  
6112
- Coccinella* sp.  
USA, New York  
*Beauveria bassiana* 2033 2034
- Coccinella septempunctata*  
Denmark  
*Beauveria bassiana* 4018  
*Beauveria* sp. 4027  
Location not specified  
*Beauveria bassiana* 3534
- USA, Michigan  
*Beauveria bassiana* 2580
- Coleomegilla maculata*  
Brazil, Alagoas  
*Beauveria bassiana* 1956
- Cycloneda sanguinea*  
Argentina  
*Beauveria bassiana* 2010 8372 8462  
8463
- Henosepilachna vigintioctopunctata*  
PR China  
*Beauveria lili* 11741
- Hippodamia convergens*  
USA, New York  
*Beauveria bassiana* 4973 4974 4975
- Coleoptera: Cucujidae: Silvaninae**  
*Ahasverus advena*  
Denmark  
*Beauveria bassiana* 5857
- Coleoptera: Curculionidae**  
Argentina  
*Beauveria bassiana* 7202 7466 7471  
8520 8521 8522 8523 8524 8525  
8526 8530  
*Beauveria* sp. 7463
- Brazil, Goiás  
*Beauveria bassiana* 930
- Brazil, Paraná  
*Beauveria bassiana* 1061
- Denmark  
*Beauveria bassiana* 4052
- Republic of Korea  
*Beauveria bassiana* 2040
- USA, New York  
*Beauveria bassiana* 6216 6217
- USA, Hawai'i  
*Beauveria bassiana* 8705
- USA, Oregon  
*Beauveria bassiana* sensu lato  
13257
- Canada, British Columbia  
*Beauveria bassiana* 7978
- United Kingdom  
*Beauveria bassiana* 7769
- USA, New York  
*Beauveria bassiana* 3667
- Anthonomus grandis*  
Brazil  
*Beauveria* sp. 1835
- Brazil, São Paulo  
*Beauveria bassiana* 1966 2559 2638  
2639 2945 2946
- USA, Texas  
*Beauveria bassiana* 3097 7795
- Anthonomus musculus*  
USA, Massachusetts  
*Beauveria bassiana* 3037
- Apion* sp.  
Denmark  
*Beauveria bassiana* 4023
- Aracanthus* sp.  
Brazil, Ceará  
*Beauveria bassiana* 753
- Barypeithes pellucida*  
USA, New York  
*Beauveria brongniartii* 6213 6214  
6215
- Ceutorhynchus litura*  
Location not specified  
*Beauveria bassiana* 3403
- Chalcodermus* sp.  
Brazil, Mato Grosso  
*Beauveria bassiana* 941 942 943  
953
- Chalcodermus aeneus*  
Brazil, Goiás  
*Beauveria bassiana* 733 734 735 736  
738
- USA, Georgia  
*Beauveria bassiana* 336 337
- Conotrachelus nenuphar*  
Location not specified  
*Beauveria bassiana* 1016
- USA, Michigan  
*Beauveria bassiana* 8260 8261 8262  
8263
- Cosmopolites* sp.  
Brazil  
*Beauveria bassiana* 1833
- Cosmopolites sordidus*  
Brazil, Espírito Santo  
*Beauveria bassiana* 1483
- West Africa  
*Beauveria bassiana* 4798 4799
- Curculio caryae*  
USA, Georgia  
*Beauveria bassiana* 2676
- Cyrtopistomus castaneus*  
USA, Kentucky  
*Beauveria bassiana* 2270  
*Beauveria brongniartii* 2271
- Diaprepes abbreviata*  
Location not specified  
*Beauveria bassiana* 433
- USA, Florida  
*Beauveria bassiana* 412 416
- Geraeus senilis*  
Mexico  
*Beauveria bassiana* 3310 3311
- Heilipodus erythropus*  
Argentina  
*Beauveria bassiana* 8461
- Hypera postica*  
Denmark  
*Beauveria bassiana* 4038 4049
- France  
*Beauveria bassiana* 1389 1398 1399  
1515  
*Beauveria* sp. 1327

- USA, Nebraska  
*Beauveria bassiana* 2199
- USA, South Carolina  
*Beauveria bassiana* 2200
- USA, Montana  
*Beauveria bassiana* sensu lato  
12434 12435 12436 12437 12438  
12439 12440 12441 12442 12443
- USA, North Dakota  
*Beauveria bassiana* sensu lato  
12444
- USA, Montana  
*Beauveria bassiana* sensu lato  
12445
- USA, North Dakota  
*Beauveria bassiana* sensu lato  
12446 12447
- USA, Montana  
*Beauveria bassiana* sensu lato  
12448 12449 12450 12451 12517  
12518 12519 12520 12521 12522
- Larinus* sp.  
Switzerland  
*Beauveria varroae* 2694
- Listronotus oregonensis*  
Canada, Québec  
*Beauveria bassiana* 2983 2984 2985  
2986
- Metamasius* sp.  
Colombia  
*Beauveria bassiana* 842
- Metamasius callizona*  
USA, Florida  
*Beauveria bassiana* 5986
- Metamasius hemipterus*  
Brazil, Paraná  
*Beauveria bassiana* 2642
- Oryzophagus oryzae*  
Brazil, Rio Grande do Sul  
*Beauveria bassiana* 3098
- Otiorthynchus ligustici*  
Hungary  
*Beauveria bassiana* 6884 6885
- Otiorthynchus sulcatus*  
France  
*Beauveria bassiana* 815 1073 1074  
1075  
*Beauveria pseudobassiana* 813 814
- New Zealand  
*Beauveria bassiana* 8078  
*Beauveria pseudobassiana* 3065
- United Kingdom  
*Beauveria bassiana* 6552 7763
- Phlyctinus collosus*  
Australia  
*Beauveria bassiana* 8756 8757
- Premnotrypes latithorax*  
Peru  
*Beauveria bassiana* 5983 5984
- Premnotrypes suturicallus*  
Peru  
*Beauveria amorpha* 1969
- Premnotrypes vorax*  
Colombia  
*Beauveria bassiana* 2248
- Rhynchites aequatus*  
Denmark  
*Beauveria bassiana* 8037
- Rhynchites baccus*  
Turkey  
*Beauveria bassiana* 8668
- Rhynchophorus ferrugineus*  
Iran  
*Beauveria bassiana* 6903
- Rhynchophorus palmarum*  
Trinidad  
*Beauveria bassiana* 13506  
*Beauveria* sp. 13661
- Shirahoshizo insidiosus*  
Japan  
*Beauveria* sp. 1681
- Sitona* sp.  
France  
*Beauveria bassiana* 1647
- New Zealand  
*Beauveria bassiana* 8077  
*Beauveria pseudobassiana* 3063
- Sitona discoideus*  
France  
*Beauveria bassiana* 816 1185 1191
- Morocco  
*Beauveria bassiana* 1153 1154 1155  
1163 1164 1171 1172 1173 1174  
1175 1176 1177 1178 1179 1180  
1181 1183 1188 1189 1190 1309  
1311 1312 1313 1811 1815 1816  
1817 1818 1819 1820 1821
- Sitona humeralis*  
France  
*Beauveria bassiana* 1491
- Sitona lineatus*  
Denmark  
*Beauveria bassiana* 4013 4015 4016  
4019 4021 4041
- France  
*Beauveria bassiana* 1156 1157 1158  
1159 1160 1161 1162 1165 1167  
1168 1169 1170 1182 1192 1193  
1194 1306
- Sitophilus* sp.  
United Kingdom  
*Beauveria bassiana* 7764 7773 7774
- Sternechus subsignatus*  
Brazil, Paraná  
*Beauveria bassiana* 1450
- Coleoptera: Curculionidae: Apioni-  
nae**  
*Cylas formicarius elegantulus*  
Peru  
*Beauveria bassiana* 5982
- USA, Florida  
*Beauveria bassiana* 5981
- Coleoptera: Curculionidae: Scolyti-  
nae**  
*Xylosandrus compactus*  
USA, Hawai'i  
*Beauveria bassiana* 12620
- Coleoptera: Elateridae**  
Brazil, Ceará  
*Beauveria bassiana* 784 804
- France  
*Beauveria bassiana* 150
- Russian Federation  
*Beauveria brongniartii* 9452  
*Beauveria* sp. 7580
- Turkey  
*Beauveria bassiana* 5670
- Coleoptera: Lagriidae**  
*Lagria vilosa*  
Brazil, Goiás  
*Beauveria bassiana* 2961
- Coleoptera: Lampyridae**  
USA, Vermont  
*Beauveria* sp. 5186  
*Cratomorphus diaphanus*  
Argentina  
*Beauveria bassiana* 8464
- Coleoptera: Languriidae**  
Costa Rica  
*Beauveria bassiana* 3457
- Coleoptera: Melolonthidae**  
*Hoplochelus marginalis*  
France  
*Beauveria hoplocheli* 13021
- Coleoptera: Nitidulidae**  
Australia  
*Beauveria bassiana* 325
- Coleoptera: Pythidae**  
*Pytho* sp.  
Canada, British Columbia  
*Beauveria bassiana* 1854
- Coleoptera: Rhizophagidae**  
*Rhizophagus grandis*  
Belgium  
*Beauveria bassiana* 1848
- Coleoptera: Scarabaeidae**  
Ethiopia  
*Beauveria bassiana* 6686
- Location not specified  
*Beauveria brongniartii* 4380 4381
- Republic of Korea  
*Beauveria bassiana* 7264  
*Beauveria sungii* 5689
- Turkey  
*Beauveria pseudobassiana* 5669
- Uzbekistan  
*Beauveria bassiana* 6058
- Adoryphorus coulonii*  
Australia  
*Beauveria amorpha* 4149  
*Beauveria bassiana* 4135 4136 4642  
*Beauveria pseudobassiana* 4274  
4721
- Amphimallon solstitiale*  
Denmark  
*Beauveria caledonica* 8024

<i>Ancognatha scarabaeoides</i>	Portugal	12595 12596 12597 12598 12599
Colombia	<i>Beauveria bassiana</i> 5148 5150	12600 12601 12602 12603 12604
<i>Beauveria bassiana</i> 2249 2250	<i>Rhopaea magnicornis</i>	12605 12606 12607 12608 12609
<i>Anomala costata</i>	Australia	12610 12611 12612 12613 12614
Japan	<i>Beauveria bassiana</i> 4130 7813 8853	12615 12616 12617 12618 12619
<i>Beauveria amorpha</i> 1676	8854	12805 12806 12807 12808 12809
<i>Beauveria brongniartii</i> 985	<i>Sericesthis nigrolineata</i>	12810 12811 12812 12813 12814
<i>Anomala cuprea</i>	Australia	12815 12816 12821 12891 12892
Japan	<i>Beauveria bassiana</i> 7853	12893 12894
<i>Beauveria bassiana</i> 1683	<i>Xyloryctes jamaicensis</i>	USA, Puerto Rico
<i>Beauveria</i> sp. 1682	India	<i>Beauveria bassiana</i> 13402 13403
<i>Anoplognathus</i> sp.	<i>Beauveria</i> sp. 2412	13404 13405
Australia	<b>Coleoptera: Scolytidae</b>	USA, Hawaii
<i>Beauveria bassiana</i> 8763	Switzerland	<i>Beauveria bassiana</i> 13515 13516
<i>Aphodius tasmaniae</i>	<i>Beauveria bassiana</i> 1566	13517 13518 13519 13520 13521
New Zealand	<i>Beauveria caledonica</i> 1567	USA, Hawai'i
<i>Beauveria bassiana</i> 8079	USA, Hawaii	<i>Beauveria bassiana</i> 13522 13523
<i>Beauveria pseudobassiana</i> 3070	<i>Beauveria bassiana</i> 3040	13524 13525 13526 13527 13528
<i>Costelytra zealandica</i>	<i>Dendroctonus micans</i>	13529 13530 13531 13532 13533
Netherlands	Turkey	13534 13535
<i>Beauveria brongniartii</i> 7761	<i>Beauveria bassiana</i> (?) 9271	USA, Hawaii
New Zealand	<i>Beauveria</i> sp. 9272	<i>Beauveria bassiana</i> 13536
<i>Beauveria brongniartii</i> 3054	<i>Dendroctonus ponderosae</i>	USA, Puerto Rico
<i>Beauveria pseudobassiana</i> 3055	Canada, British Columbia	<i>Beauveria bassiana</i> 13541
<i>Holotrichia parallela</i>	<i>Beauveria bassiana</i> 1849 1853	USA, Hawaii
China	<i>Dryocoetes confusus</i>	<i>Beauveria bassiana</i> 13542 13543
<i>Beauveria asiatica</i> 4384 4474	Canada	13544 13545 13546 13547 13548
<i>Beauveria brongniartii</i> 4385 4386	<i>Beauveria bassiana</i> 9184	13549 13550 13551 13552
4388 4465 4466 4467 4468 4469	Canada, British Columbia	USA, Hawai'i
4470 4471 4472 4473 4475 4476	<i>Beauveria bassiana</i> 1852	<i>Beauveria bassiana</i> 13553
4477 4478	<i>Hypothenemus hampei</i>	USA, Hawaii
<i>Lachnosterna morosa</i>	Brazil, São Paulo	<i>Beauveria bassiana</i> 13554 13555
Japan	<i>Beauveria bassiana</i> 1480	13556 13557 13558 13559 13560
<i>Beauveria sungii</i> 1685	Cameroon	13561 13562 13563 13564 13565
<i>Melolontha</i> sp.	<i>Beauveria bassiana</i> 6526 6527 6528	13566 13567 13568 13569 13572
Germany	6529 6530 6531 6532	13573 13574 13575 13576 13577
<i>Beauveria brongniartii</i> 5355 5356	Ivory Coast	13578 13579 13580 13581 13582
5357 5358 5359 5360 5361 5362	<i>Beauveria bassiana</i> 5436 5437 5438	13583 13584 13585 13586 13587
5363 5364	5439 5440 5441 5442 5459 5460	13588
<i>Melolontha melolontha</i>	5477 5482 5483 5484 5485 5486	USA, Hawai'i
France	5487	<i>Beauveria bassiana</i> 13589 13590
<i>Beauveria brongniartii</i> 617 979	Kenya	13591 13592 13593 13594
Switzerland	<i>Beauveria bassiana</i> 2685 2686 2687	USA, Hawaii
<i>Beauveria brongniartii</i> 1067 1068	Mexico	<i>Beauveria bassiana</i> 13596 13597
1069 1070 1071 1072 1076 1077	<i>Beauveria bassiana</i> 2693 3818 3819	13598
7528	Nicaragua	USA, Hawai'i
<i>Pachnoda interrupta</i>	<i>Beauveria bassiana</i> 3440 3443 3445	<i>Beauveria bassiana</i> sensu lato
Ethiopia	3448 3453	12982 12983 12984 12985 12986
<i>Beauveria bassiana</i> 6669 6676 6681	Sri Lanka	12987 12988 12989 12990 12991
<i>Phyllophaga</i> sp.	<i>Beauveria bassiana</i> 7758	12992 12993 12994 12995 12996
Mexico	Togo	12997 12998 12999 13000 13001
<i>Beauveria bassiana</i> 5740 5741 5742	<i>Beauveria bassiana</i> 2688 2689 2690	13002 13003 13004 13005 13006
5743 5744 5745	2691 2692 5443 5444 5445 5446	13007 13008 13009 13010 13011
USA, Oklahoma	5447 5448 5449 5450 5451 5452	13012 13013 13014 13015 13016
<i>Beauveria</i> sp. 12793 12794 12795	5453 5454 5455 5456 5457 5458	13017 13018 13019 13020 13046
<i>Popillia japonica</i>	5478 5479 5480 5481 5488 5489	13047 13048 13049 13050 13051
Azores	5490	13052 13053 13054 13055 13056
<i>Beauveria amorpha</i> 4990	USA, Hawaii	13057 13058 13059 13060 13061
<i>Beauveria brongniartii</i> 4991 4992	<i>Beauveria bassiana</i> 10471	13062 13063 13064 13065 13066
4993 4994 4995	USA, Hawai'i	13067 13068 13069 13070 13071
Japan	<i>Beauveria bassiana</i> 12573 12574	13072 13073 13074 13075 13076
<i>Beauveria brongniartii</i> 4389 4458	12575 12576 12577 12578 12579	13077 13078 13079 13080 13081
<i>Beauveria</i> sp. 4390 4391 4392	12580 12581 12582 12583 12584	13082 13083 13084 13085 13086
Location not specified	12585 12586 12587 12588 12589	13087 13088 13089 13090 13092
<i>Beauveria bassiana</i> 3716 3717	12590 12591 12592 12593 12594	13093 13094

## Fungus by Host and Location

- Beauveria* sp. 13377 13378 13379  
13380 13381  
USA, Hawaii  
*Beauveria* sp. 13382 13383 13384  
13385 13386 13387 13388 13389  
13390 13391 13392 13393 13394  
13395  
USA, Hawai'i  
*Beauveria* sp. 13397  
USA, Hawaii  
*Beauveria* sp. 13398 13399  
USA, Hawai'i  
*Beauveria* sp. 13407 13408 13409  
13410 13411 13412  
USA, Hawaii  
*Beauveria* sp. 13413 13414 13415  
13416 13417 13418 13419  
USA, Hawai'i  
*Beauveria* sp. 13420  
USA, Hawaii  
*Beauveria* sp. 13421 13422  
USA, Hawai'i  
*Beauveria* sp. 13423  
USA, Hawaii  
*Beauveria* sp. 13424 13595  
*Ips* sp.  
Canada, British Columbia  
*Beauveria pseudobassiana* 1855  
*Ips stenographus*  
Norway  
*Beauveria bassiana* 6900  
*Ips typographus*  
Denmark  
*Beauveria brongniartii* 4024  
Slovakia  
*Beauveria bassiana* 12957 12958  
12960 12961 12962 12964 12965  
12966 12967 12968 12970 12971  
12973 12974 12975 12977 12978  
12979 12980  
*Beauveria caledonica* 12963 12969  
12972  
*Beauveria pseudobassiana* 12959  
12976 12981  
Switzerland  
*Beauveria bassiana* 7525 7526  
*Tomicus minor*  
France  
*Beauveria bassiana* 4980 5071  
*Beauveria pseudobassiana* 4933  
5070  
*Tomicus pimperda*  
France  
*Beauveria* sp. 4909 4910 4911 4912  
4913 4914 4915 4916 4917 4918
- Coleoptera: Scolytidae (Tribe Ipini)**  
PR China  
*Beauveria pseudobassiana* 6229
- Coleoptera: Staphylinidae**  
Denmark  
*Beauveria bassiana* 4055  
USA, Nebraska  
*Beauveria bassiana* 3112
- Anotylus rugosus*  
Denmark  
*Beauveria bassiana* 4051 4056  
*Anotylus* sp.  
Denmark  
*Beauveria bassiana* 4046  
*Gyrophynus angustatus*  
Denmark  
*Beauveria bassiana* 4054  
*Tachyporus* sp.  
Denmark  
*Beauveria bassiana* 4028
- Coleoptera: Tenebrionidae**  
Brazil, Ceará  
*Beauveria bassiana* 757 783 787  
Kazakhstan  
*Beauveria bassiana* 6478 6483  
Uzbekistan  
*Beauveria bassiana* 6057 6064 6077  
6078 6096 6113  
*Alphitobius diaperinus*  
*Beauveria bassiana* 5836 5838 5839  
5840 5843  
USA, West Virginia  
*Beauveria bassiana* 7941  
*Pterohelaeus darlingensis*  
Australia  
*Beauveria bassiana* 8065  
*Tenebrio molitor*  
Denmark  
*Beauveria bassiana* 8038  
Finland  
*Beauveria bassiana* 5623  
*Tribolium castaneum*  
Finland  
*Beauveria pseudobassiana* 5622
- Coleoptera: adephaga**  
Turkey  
*Beauveria bassiana* 5672  
Colombia  
*Beauveria bassiana* 796  
Republic of Korea  
*Beauveria bassiana* 7252  
USA, Vermont  
*Beauveria bassiana* 5495 5496  
USA, Florida  
*Beauveria bassiana* 5991
- Dermoptera: Forficulidae**  
*Doru lineare*  
Argentina  
*Beauveria bassiana* 8374 8465  
*Forficula africana*  
Benin  
*Beauveria bassiana* 5652  
Nigeria  
*Beauveria bassiana* 5650 5651  
*Forficula auricularia*  
Brazil, Distrito Federal  
*Beauveria bassiana* 3018
- Dictyoptera: Mantidae**  
Republic of Korea  
*Beauveria bassiana* 7236 7238
- Diptera**  
Brazil, Bahia  
*Beauveria bassiana* 1962  
Republic of Korea  
*Beauveria bassiana* 7269  
Sri Lanka  
*Beauveria bassiana* 2454  
USA, Hawaii  
*Beauveria bassiana* 8707 8712  
USA, Vermont  
*Beauveria bassiana* 10141 10149
- Diptera: Anthomyiidae**  
*Delia antiqua*  
France  
*Beauveria bassiana* 1864 1865 1866  
*Delia radicum*  
Canada, Québec  
*Beauveria bassiana* 1151  
Denmark  
*Beauveria bassiana* 4012  
United Kingdom  
*Beauveria bassiana* 6553 6555 6563  
6564 6568  
*Pegoplata aestiva*  
Denmark  
*Beauveria bassiana* 8031
- Diptera: Calliphoridae**  
*Calliphora* sp.  
France  
*Beauveria bassiana* 1630
- Diptera: Culicidae**  
Brazil, Goiás  
*Beauveria bassiana* sensu lato  
13255  
Brazil  
*Beauveria* sp. 13290 13293 13294
- Diptera: Ephydriidae**  
United Kingdom  
*Beauveria bassiana* 6567  
*Scatella tenuicosta*  
USA, New York  
*Beauveria bassiana* 8245 8246 8247
- Diptera: Muscidae**  
Brazil, Alagoas  
*Beauveria bassiana* 1955  
USA, Vermont  
*Beauveria bassiana* 10142 11845  
*Haematobia irritans*  
Denmark  
*Beauveria bassiana* 5862 5864 5865  
5866  
*Beauveria pseudobassiana* 5867  
Laboratory manipulation  
*Beauveria bassiana* sensu lato  
13304 13305 13306 13307  
USA, Florida  
*Beauveria bassiana* sensu lato  
13303  
*Musca autumnalis*  
France  
*Beauveria bassiana* 1514

<i>Musca domestica</i>	<b>Hemiptera: Aleyrodidae</b>	<i>Schizaphis graminum</i>
Argentina	<i>Bemisia tabaci</i>	USA, Idaho
<i>Beauveria bassiana</i> 7049	Location not specified	<i>Beauveria bassiana</i> 2336 2860 2880
Denmark	<i>Beauveria bassiana</i> 5274 5275 5276	2881 2883
<i>Beauveria bassiana</i> 5861 5863	5277 5281 5282 5285	<b>Hemiptera: Cercopidae</b>
USA, New York	Philippines	<i>Deois flavopicta</i>
<i>Beauveria bassiana</i> 5340 5341 5342	<i>Beauveria bassiana</i> 4981 4982 4983	Brazil, Distrito Federal
5343 5344 5345 5346 5347	4984 5287 5288 5289 5290 5291	<i>Beauveria bassiana</i> 3019
USA, Florida	5292 5293 5294 5295 5296	Brazil, Goiás
<i>Beauveria bassiana</i> 7940	USA, Arizona	<i>Beauveria bassiana</i> 806
USA, New York	<i>Beauveria bassiana</i> 5283 5284	<i>Zulia carbonaria</i>
<i>Beauveria bassiana</i> 13813	USA, Vermont	Colombia
USA, Pennsylvania	<i>Beauveria bassiana</i> 5278 5279 5280	<i>Beauveria bassiana</i> 6459
<i>Beauveria</i> sp. 13814	<i>Trialeurodes vaporariorum</i>	<i>Zulia entrerriana</i>
USA, New York	Canada, Alberta	Brazil, Mato Grosso
<i>Beauveria bassiana</i> 2953 5339	<i>Beauveria bassiana</i> 6920 6921 6922	<i>Beauveria bassiana</i> 477
<b>Diptera: Psychodidae</b>	6923 6924	<b>Hemiptera: Cicadellidae</b>
<i>Phlebotomus papatasi</i>	Kazakhstan	Brazil, Mato Grosso
United Kingdom	<i>Beauveria bassiana</i> 9451	<i>Beauveria bassiana</i> 945
<i>Beauveria bassiana</i> 2972	<b>Hemiptera: Anthocoridae</b>	Russian Federation
<b>Diptera: Sciaridae</b>	<i>Anthocoris nemorum</i>	<i>Beauveria bassiana</i> 7590 9443
United Kingdom	Denmark	USA, Hawaii
<i>Beauveria bassiana</i> 6566	<i>Beauveria bassiana</i> 8028	<i>Beauveria bassiana</i> 8710 8711
<b>Diptera: Syrphidae</b>	<b>Hemiptera: Aphididae</b>	<i>Balacha melanocephala</i>
<i>Eristalis latifrons</i>	France	Argentina
USA	<i>Beauveria bassiana</i> 3120	<i>Beauveria bassiana</i> 7464 7465 7467
<i>Beauveria bassiana</i> 710	<i>Beauveria pseudobassiana</i> 3121	7469 8370 8459 8460 8528 8529
<b>Diptera: Tachinidae</b>	USA, New York	<i>Empoasca kraemeri</i>
France	<i>Beauveria bassiana</i> 4523 4524	Brazil, Alagoas
<i>Beauveria bassiana</i> 1150	<i>Aphis gossypii</i>	<i>Beauveria bassiana</i> 1963
<b>Diptera: Tipulidae</b>	USA, Pennsylvania	<i>Molopopterus theae</i>
<i>Tipula paludosa</i>	<i>Beauveria bassiana</i> 5493 5494	South Africa
United Kingdom	<i>Diuraphis noxia</i>	<i>Beauveria bassiana</i> 6982
<i>Beauveria bassiana</i> 6565	France	<i>Nephotettix bipunctata cincticeps</i>
<b>Hemiptera</b>	<i>Beauveria bassiana</i> 3867 3893	Japan
Mexico	Hungary	<i>Beauveria bassiana</i> 1553 1554 1555
<i>Beauveria</i> sp. 11754	<i>Beauveria bassiana</i> 6968 6969	1556
Russian Federation	<i>Beauveria bassiana</i> (?) 6608	PR China
<i>Beauveria bassiana</i> 7583	Laboratory manipulation	<i>Beauveria amorpha</i> 656
USA, Florida	<i>Beauveria bassiana</i> 3215 3890 3891	<i>Beauveria bassiana</i> 708
<i>Beauveria bassiana</i> 5978	3892 3905 3906 3907 3908 4099	<i>Beauveria brongniartii</i> 678
<b>Hemiptera: Adelgidae</b>	4100 4101 4105 4106 4107 4108	<i>Nephotettix cincticeps</i>
<i>Adelges tsugae</i>	4109 4110 4111 4112 4113 4114	Japan
<i>Beauveria bassiana</i> (?) 5815	4115 4116 4117 4118 4119 4120	<i>Beauveria bassiana</i> 1098
PR China	4121	<i>Pawiloma victima</i>
<i>Beauveria bassiana</i> 6027	South Africa	Argentina
USA, Massachusetts	<i>Beauveria bassiana</i> 5705 6978 6979	<i>Beauveria bassiana</i> 8371
<i>Beauveria bassiana</i> 5170 5171	6980	<b>Hemiptera: Cicadidae</b>
USA, Connecticut	Turkey	Japan
<i>Beauveria bassiana</i> 5767	<i>Beauveria bassiana</i> 3154 3155 3156	<i>Beauveria bassiana</i> 7256 7258
USA, Virginia	3157 3158 3166 3167 3168 3169	Mexico
<i>Beauveria bassiana</i> 5768 5769	<i>Beauveria pseudobassiana</i> 3153	<i>Beauveria bassiana</i> 2544
USA, Massachusetts	USA, New York	PR China
<i>Beauveria bassiana</i> 5770 5796	<i>Beauveria bassiana</i> 4462 4463 4464	<i>Beauveria bassiana</i> 11712
USA, Connecticut	4691 4692 4693 4694 4695 4696	<i>Magicalcaca septendecim</i>
<i>Beauveria bassiana</i> (?) 5816 5817	4697 4976 4977 4978 4979	USA, Maryland
5818	USA, Idaho	<i>Beauveria brongniartii</i> 7376
	<i>Beauveria bassiana</i> 2861 2864 2879	<b>Hemiptera: Cixiidae</b>
	2882	<i>Oliarus dimidiatus</i>
	<i>Myzus persicae</i>	Argentina
	USA, Washington	<i>Beauveria bassiana</i> 7776
	<i>Beauveria bassiana</i> 3385	
	<i>Rhopalosiphum padi</i>	
	Hungary	
	<i>Beauveria bassiana</i> 6970	

**Hemiptera: Coccidae**

Republic of Korea  
*Beauveria bassiana* 6723

**Hemiptera: Coreidae**

*Leptoglossus fulvicornis*  
USA, Florida  
*Beauveria bassiana* 3086

**Hemiptera: Delphacidae**

USA, Hawaii  
*Beauveria kipukae* 7032  
*Nilaparvata lugens*  
Indonesia, Jawa Barat, Java  
*Beauveria bassiana* 2427  
PR China  
*Beauveria bassiana* 654 679 709 714  
717 719  
Vietnam  
*Beauveria bassiana* 7592

**Hemiptera: Fulgoridae**

*Lycorma delicatula*  
USA, Pennsylvania  
*Beauveria bassiana* 13815 13816  
13817  
*Beauveria* sp. 13400 13599 13600  
13601 13602 13603

**Hemiptera: Lygaeidae**

USA, Hawaii  
*Beauveria bassiana* 8706  
*Blissus leucopterus*  
USA, Kansas  
*Beauveria bassiana* 792 2430  
*Nysius vinitor*  
Australia  
*Beauveria bassiana* sensu stricto  
300  
*Scolopostethus affinis*  
Denmark  
*Beauveria bassiana* 8027

**Hemiptera: Membracidae**

Brazil, Bahia  
*Beauveria bassiana* 3999  
Mexico  
*Beauveria bassiana* 3312  
Papua New Guinea  
*Beauveria* sp. 2164  
*Kronides* sp.  
Argentina  
*Beauveria bassiana* 7468  
*Spissistilus festinus*  
USA, California  
*Beauveria bassiana* 8318

**Hemiptera: Mesoveliidae**

*Mesovelia mulsanti*  
USA, Florida  
*Beauveria bassiana* 320

**Hemiptera: Miridae**

Costa Rica  
*Beauveria bassiana* 3449 3454 3456

**Adelphocoris** sp.

Austria  
*Beauveria bassiana* 1533 1534 1535  
1536 1537 1538 1539 1540 1635  
1636 1637 1638 1640 1643

## France

*Beauveria bassiana* 1516 1517 1523  
1524 1650 1789 1790 1791 1792  
1793 1794 1795 1796 1797 1798  
1799 1800 1801

## Italy

*Beauveria bassiana* 1525 1526 1527  
1528 1529 1531  
*Beauveria* sp. 1195 1196 1197 1198  
1199 1200 1201 1202 1203 1204  
1205 1206 1207 1208 1209 1210  
1211 1213 1214 1215 1216 1218  
1219 1220 1221 1222 1224

**Leptopterna dolabrata**

Denmark  
*Beauveria bassiana* 8036

**Liocoris tripustulatus**

Denmark  
*Beauveria bassiana* 8025

**Lygus** sp.

France  
*Beauveria bassiana* 1394 1395 1396  
1397 1404 1405 1406 1407 1408  
1409 1410 1411 1412 1413 1414  
1520 1521 1648 1649 2318 2319  
2320 2321 2322 2458 2462

## Greece

*Beauveria bassiana* 1802 1803 1812  
1822

## Spain

*Beauveria bassiana* 886 1804 1805  
1806 1807 1808 1809 1810 1813  
1814

**Lygus ?lineolaris**

France  
*Beauveria bassiana* 1317 1318 1319  
1320 1321 1322 1323 1324 1325

**Lygus hesperus**

USA, California  
*Beauveria bassiana* 6660 6661

**Lygus lineolaris**

USA, New York  
*Beauveria bassiana* 5808  
USA, Mississippi  
*Beauveria bassiana* 8317 8889  
USA, Arkansas  
*Beauveria bassiana* 3769

**Lygus pratensis**

France  
*Beauveria bassiana* 2461

**Notostira elongata**

Denmark  
*Beauveria bassiana* 8029 8030

**Stenodema laevigatum**

Denmark  
*Beauveria bassiana* 8026

**Hemiptera: Nabidae**

*Nabis* sp.  
Austria  
*Beauveria bassiana* 1988

**Hemiptera: Pentatomidae**

Austria  
*Beauveria bassiana* 1973 1974

Brazil, Goiás  
*Beauveria bassiana* 737

Brazil, Mato Grosso  
*Beauveria bassiana* 944

France  
*Beauveria bassiana* 1984

Republic of Korea  
*Beauveria bassiana* 6722

**Acanthosoma labiduroides**

Nepal  
*Beauveria bassiana* 7273

Republic of Korea  
*Beauveria bassiana* 7240 7246

**Aelia** sp.

Uzbekistan  
*Beauveria bassiana* 6093

**Bagrada hilaris**

Mexico  
*Beauveria bassiana* sensu lato  
13167 13168 13169

**Dolycorus** sp.

Turkey  
*Beauveria bassiana* 6404 6426

**Euschistus heros**

Brazil, Goiás  
*Beauveria bassiana* 1478

**Halyomorpha halys**

Republic of Georgia  
*Beauveria* sp. 13757 13758

**Nezara viridula**

Argentina  
*Beauveria bassiana* 2011 2457 2516

## Brazil

*Beauveria bassiana* 4092 4093

## Brazil, Paraná

*Beauveria bassiana* 1054

## Brazil, Santa Catarina

*Beauveria bassiana* 1474

**Oebalus poecilus**

Brazil, Goiás  
*Beauveria bassiana* 2191

**Podisus** sp.

Brazil, Paraná  
*Beauveria bassiana* 1457 2519

**Tibraca limbativentres**

Brazil  
*Beauveria bassiana* 4091

## Brazil, Goiás

*Beauveria bassiana* 933

**Hemiptera: Phylloxeroidea**

*Viteus vitifoliae*  
Republic of Georgia  
*Beauveria bassiana* sensu stricto  
13754

**Hemiptera: Plataspidae**

*Megacopta cribraria*  
USA, Virginia  
*Beauveria bassiana* 13430

<b>Hemiptera: Pseudococcidae</b> <i>Rhizoecus</i> sp. USA, Florida <i>Beauveria bassiana</i> 2236	<b>Heteroptera</b> Denmark <i>Beauveria bassiana</i> 4057	12935 12936 12937 12938 12939 12940 12942 USA, Nebraska <i>Beauveria bassiana</i> sensu lato 12943 12944 12945 12946 12947 12948 12949 12950 12951 12952 USA, Montana <i>Beauveria bassiana</i> sensu lato 12953 12954 12955 12956 13310 13311 13312 13330 13331 13332 13333 13334 13335 13336 13337 13338 13339 13340 13341 13342 13343 13344 13345 13346 13347 <i>Beauveria pseudobassiana</i> 12240 12241 12242 12243 12244 12245 12246 12247 12248 13309 13313 13314 13315 13316 13317 13318 13319 13320 13321 13322 13323 13324 13325 13326 13327 13328 13329
<b>Hemiptera: Psyllidae</b> <i>Diaphorina citri</i> USA, Florida <i>Beauveria</i> sp. 13570 13571 USA, Texas <i>Beauveria</i> sp. 13765 13766	<b>Heteroptera: Miridae</b> Denmark <i>Beauveria bassiana</i> 4035 <i>Lygus</i> sp. Denmark <i>Beauveria bassiana</i> 4053	
<b>Hemiptera: Reduviidae</b> <i>Triatoma infestans</i> Argentina <i>Beauveria bassiana</i> 7147	<b>Hymenoptera</b> Japan <i>Beauveria bassiana</i> 7257 7259 Republic of Georgia <i>Beauveria</i> sp. 13752 Republic of Korea <i>Beauveria bassiana</i> 7239 7254 7265 <i>Beauveria pseudobassiana</i> 7242 <i>Beauveria sungii</i> 7281	
<b>Hemiptera: Rhopalidae</b> <i>Leptocoris</i> sp. Indonesia, Lombok Island <i>Beauveria bassiana</i> 560 Indonesia, Yogyakarta, Java <i>Beauveria bassiana</i> 566 <i>Leptocoris oratorius</i> Philippines <i>Beauveria bassiana</i> 1269 1270	<b>Hymenoptera: ?Megachilidae</b> Brazil, Goiás <i>Beauveria bassiana</i> 957	<b>Hymenoptera: Diprionidae</b> <i>Diprion pini</i> Location not specified <i>Beauveria bassiana</i> 338 339
<b>Hemiptera: Scutelleridae</b> <i>Eurygaster</i> sp. Iran <i>Beauveria bassiana</i> 10353 10354 10355 10356 10357 10358 10359 10361 10362 11620 Kazakhstan <i>Beauveria bassiana</i> 11618 11619 Kyrgyz Republic <i>Beauveria bassiana</i> 8932 10352 Republic of Kazakhstan <i>Beauveria bassiana</i> 10351 Russian Federation <i>Beauveria bassiana</i> 6008 6009 6011 6013 6014 6016 6019 6039 6040 6041 6042 <i>Beauveria brongniartii</i> 6023 <i>Beauveria pseudobassiana</i> 6015 6022 6043 Syria <i>Beauveria bassiana</i> 5674 6065 6066 6067 6069 6070 6079 6086 6087 6088 6089 6090 6091 6149 Turkey <i>Beauveria bassiana</i> 5665 5725 5753 5762 10348 10349 <i>Beauveria bassiana</i> (?) 5684 <i>Beauveria pseudobassiana</i> 5724 <i>Beauveria</i> sp. 5686 Uzbekistan <i>Beauveria bassiana</i> 6056 6060 6072 6073 6076 6083 6115	<b>Hymenoptera: Superfamily Apoidea</b> Brazil, Santa Catarina <i>Beauveria bassiana</i> 1468	<b>Hymenoptera: Eurytomidae</b> <i>Bephratelloides cubensis</i> USA, Florida <i>Beauveria bassiana</i> 2869
	<b>Hymenoptera: Apidae</b> <i>Apis mellifera</i> Russian Federation <i>Beauveria bassiana</i> 7596 <i>Beauveria</i> sp. 7589 Ukraine <i>Beauveria bassiana</i> 9447 USA, Florida <i>Beauveria bassiana</i> 5989 <i>Bombus</i> sp. Argentina <i>Beauveria bassiana</i> 7201	<b>Hymenoptera: Formicidae</b> Brazil, Bahia <i>Beauveria bassiana</i> 1960 Mexico <i>Beauveria bassiana</i> 2487 Republic of Korea <i>Beauveria bassiana</i> 7260 USA, Texas <i>Beauveria bassiana</i> 12023 12024 USA, Arizona <i>Beauveria bassiana</i> 12025 12026 USA, Texas <i>Beauveria</i> sp. 11743 11744 USA, Arizona <i>Beauveria</i> sp. 11745 11746 11747 France <i>Beauveria bassiana</i> 5069 <i>Atta</i> sp. Brazil <i>Beauveria bassiana</i> 1831 Mexico <i>Beauveria bassiana</i> 3285 <i>Atta mexicana</i> Mexico <i>Beauveria bassiana</i> 2484 2485 2486 <i>Formica rufa</i> Russian Federation <i>Beauveria</i> sp. 7597 <i>Myrmica rubra</i> United Kingdom <i>Beauveria bassiana</i> 7533 7534 USA, Maine <i>Beauveria brongniartii</i> 7058 <i>Pogonomyrmex occidentalis</i> USA, Colorado <i>Beauveria amorpha</i> 7542
	<b>Hymenoptera: Apoidea</b> PR China <i>Beauveria bassiana</i> 9595	
	<b>Hymenoptera: Cephidae</b> <i>Cephus</i> sp. PR China <i>Beauveria bassiana</i> 6793 6794 6795 <i>Cephus cinctus</i> <i>Beauveria bassiana</i> sensu lato 12489 USA, Montana <i>Beauveria bassiana</i> sensu lato 12462 12463 12464 12465 12467 12468 12469 12470 12471 12472 12473 12474 12475 12476 12477 12478 12479 12480 12482 12484 12485 12486 12487 12488 12490 12491 12492 12493 12494 12495 12496 12497 12498 12499 12500 12501 12502 12503 12504 12505 12506 12507 12508 12509 12510 12512 12513 12514 12515 12525 12920 12921 12922 12923 12924 12925 12926 12927 12928 12929 12930 12931 12932 12933 12934	



- Beauveria bassiana* 7540 7541  
*Solenopsis* sp.  
 Brazil  
*Beauveria bassiana* 2722 2723  
 Brazil, São Paulo  
*Beauveria amorpha* 2641  
*Solenopsis invicta*  
 Brazil, Mato Grosso  
*Beauveria bassiana* 2401 2402 2403  
 2404 5956 5957 5960 5961 5962  
*Beauveria bassiana*(?) 5959  
 Brazil  
*Beauveria* sp. 3859  
 Uruguay  
*Beauveria bassiana* 5967  
 USA, Florida  
*Beauveria bassiana* 5973 5974  
*Solenopsis quinquecupis*  
 Brazil, Rio Grande do Sul  
*Beauveria bassiana* 5968  
 Uruguay  
*Beauveria bassiana* 5966  
*Solenopsis saevissima*  
 Brazil, São Paulo  
*Beauveria bassiana* 5958 5963  
 Brazil, Minas Gerais  
*Beauveria bassiana* 5965  
 Brazil, Rio Grande do Sul  
*Beauveria bassiana* 5969  
*Solenopsis xyloni*  
 USA, California  
*Beauveria bassiana* 5970 5971 5972
- Hymenoptera: Formicidae: Myrmicinae**  
 France  
*Beauveria bassiana* 1976 1977 1978  
 1979
- Hymenoptera: Ichneumonidae**  
 Poland  
*Beauveria pseudobassiana* 156  
 Ukraine  
*Beauveria bassiana* 9448
- Hymenoptera: Megachilidae**  
*Beauveria bassiana* 7377 7378
- Hymenoptera: Pamphiliidae**  
 Japan  
*Beauveria bassiana* 7519 7520 7521  
*Beauveria bassiana* sensu stricto  
 7518  
*Pamphilius betulae*  
 Commonwealth of Independent States  
*Beauveria bassiana* 154  
*Beauveria pseudobassiana* 152
- Hymenoptera: Pergidae**  
*Lophyrotoma zonalis*  
 Australia  
*Beauveria bassiana* 8753
- Hymenoptera: Siridae**  
*Sirex noctilio*  
 USA, Pennsylvania  
*Beauveria bassiana* 12249
- Hymenoptera: subord. Symphyta**  
 USA, Florida  
*Beauveria bassiana* 5985
- Hymenoptera: Vespidae**  
 Brazil, Alagoas  
*Beauveria bassiana* 1953  
 Brazil, Amazonas  
*Beauveria bassiana* 730  
 Brazil, Goiás  
*Beauveria bassiana* 2943 2944  
 Chile  
*Beauveria bassiana* sensu lato  
 13369  
*Polistes* sp.  
 Brazil, São Paulo  
*Beauveria bassiana* 6513  
*Vespula vulgaris*  
 Canada, Alberta  
*Beauveria pseudobassiana* 2997
- Isoptera: Rhinotermitidae**  
*Coptotermes formosanus*  
 USA, Louisiana  
*Beauveria bassiana* 6906 6907 6908  
*Reticulitermes flavipes*  
 Canada, Ontario  
*Beauveria bassiana* 3041
- Lepidoptera**  
 Brazil, Ceará  
*Beauveria bassiana* 2637  
 Brazil, São Paulo  
*Beauveria bassiana* 2633  
 Ecuador  
*Beauveria* sp. 2998  
 Mexico  
*Beauveria bassiana* 2857  
 Nepal  
*Beauveria bassiana* 7274  
 PR China  
*Beauveria amorpha* 6227  
*Beauveria bassiana* 11708 11716  
 11717 11719  
*Beauveria* sp. 9596 9597 11709  
 Republic of Korea  
*Beauveria bassiana* 11715  
 Russian Federation  
*Beauveria bassiana* 7585 7593 9445  
*Beauveria* sp. 7579 7586 7587 7594  
 7598  
 Thailand  
*Beauveria bassiana* 537  
 Turkey  
*Beauveria* sp. 5832  
 United Kingdom  
*Beauveria bassiana* 6557  
 USA, Hawai'i  
*Beauveria bassiana* 8709  
 Uzbekistan  
*Beauveria bassiana* 6109
- Lepidoptera: Arctiidae**  
*Hyphantria cunea*  
 Italy  
*Beauveria bassiana* 1564  
*Beauveria pseudobassiana* 1565
- Turkey  
*Beauveria bassiana* 12165  
*Beauveria* sp. 12168 12169
- Lepidoptera: Bombycidae**  
*Bombyx mori*  
 Japan  
*Beauveria bassiana* 302 303 304 305  
 987 1007  
*Beauveria* sp. 1040  
 Philippines  
*Beauveria bassiana* 2737  
 PR China  
*Beauveria bassiana* 718  
 South Africa  
*Beauveria bassiana* 5704
- Lepidoptera: Brassolidae**  
*Brassolis sophorea*  
 Brazil, São Paulo  
*Beauveria bassiana* 6514  
 Brazil, Pará  
*Beauveria bassiana* 2619
- Lepidoptera: Castniidae**  
*Castnia licus*  
 Brazil, Pernambuco  
*Beauveria brongiartii* 1481 1829
- Lepidoptera: Cossidae**  
*Cossula cossus*  
 Italy  
*Beauveria bassiana* 1103 1104 1558  
*Zeuzera pyrina*  
 Italy  
*Beauveria bassiana* 1105
- Lepidoptera: Danaidae**  
*Danaus plexippus*  
*Beauveria bassiana* 7093  
 Australia  
*Beauveria bassiana* 8891
- Lepidoptera: Eupterotidae**  
 South Africa  
*Beauveria bassiana* 6984
- Lepidoptera: Geometridae**  
 Republic of Georgia  
*Beauveria* sp. 13748  
*Isturgia exerrariae*  
 South Africa  
*Beauveria bassiana* 6973  
*Beauveria pseudobassiana* 6972
- Lepidoptera: Hepialidae**  
*Oncopera* sp.  
 Australia  
*Beauveria pseudobassiana* 4273  
*Oncopera alboguttata*  
 Australia  
*Beauveria bassiana* 4589 4607 8493  
*Oncopera intricata*  
 Australia  
*Beauveria bassiana* 4258 4672
- Lepidoptera: Hyblaeidae**  
*Hyblaea puer*  
 India  
*Beauveria bassiana* 2597

**Lepidoptera: Incurvariidae**

*Paraclemensia* sp.  
USA  
*Beauveria bassiana* 11614 11615  
11616 11617  
*Paraclemensia acerifoliella*  
USA, Vermont  
*Beauveria bassiana* 5492

**Lepidoptera: Lasiocampidae**

*Dendrolimus spectabilis*  
Japan  
*Beauveria bassiana* 1677  
*Malacosoma americanum*  
USA, Massachusetts  
*Beauveria bassiana* 1

**Lepidoptera: Lymantriidae**

*Lymantria dispar*  
Canada, Ontario  
*Beauveria bassiana* 2267  
Commonwealth of Independent States  
*Beauveria bassiana* 155  
France  
*Beauveria bassiana* 6205  
Rumania  
*Beauveria pseudobassiana* 299  
USA, Maryland  
*Beauveria bassiana* 2831 3404  
USA, Virginia  
*Beauveria bassiana* 3527  
USA, Maryland  
*Beauveria bassiana* 3530  
USA, Virginia  
*Beauveria pseudobassiana* 3405  
USA, Pennsylvania  
*Beauveria pseudobassiana* 3528  
USA, Maryland  
*Beauveria pseudobassiana* 3529  
USA, Delaware  
*Beauveria bassiana* 2570 2571 2572  
2573  
USA, Oregon  
*Beauveria bassiana* 2054  
*Lymantria dissoluta*  
PR China  
*Beauveria bassiana* 6233

**Lepidoptera: Lyonetiidae**

*Leucoptera coffeella*  
Nicaragua  
*Beauveria bassiana* 6801 6802 6803  
6804 6805 6806 6807 6808 6809  
*Leucoptera scitella*  
Italy  
*Beauveria bassiana* 1115 1117

**Lepidoptera: Noctuidae**

Hungary  
*Beauveria bassiana* 1627 1628 1629  
PR China  
*Beauveria brongniartii* 9599  
*Autographa gamma*  
France  
*Beauveria bassiana* 2253 2254  
*Helicoverpa* sp.  
Australia  
*Beauveria bassiana* 8066

*Helicoverpa armigera*

Spain  
*Beauveria bassiana* 1149 1166  
*Helicoverpa virescens*  
France  
*Beauveria bassiana* 1314 1315 1316  
Spain  
*Beauveria bassiana* 1788

*Mocis* sp.

Colombia  
*Beauveria* sp. 590  
*Panolis flammea*  
United Kingdom  
*Beauveria bassiana* 6100 6101 6177  
6178

*Sesamia calamistis*

Benin  
*Beauveria bassiana* 5649 5654

*Sesamia cretica*

Italy  
*Beauveria bassiana* 1118

*Simyra henrici*

USA, Florida  
*Beauveria bassiana* 5988

*Spodoptera frugiperda*

Mexico  
*Beauveria bassiana* 3288  
*Beauveria* sp. 3289

*Spodoptera littoralis*

France  
*Beauveria bassiana* 1512 1513 3286

*Spodoptera litura*

India  
*Beauveria bassiana* 6643 6644 6646  
6647 6648 6650

**Lepidoptera: Noctuidae: Plusiinae**

Brazil, Paraná  
*Beauveria bassiana* 3937

**Lepidoptera: Olethreutidae**

*Carpocapsa pomonella*  
Yugoslavia, Serbia  
*Beauveria bassiana* 503

**Lepidoptera: Phycitinae**

*Emmalocera depressella*  
India  
*Beauveria bassiana* 2417

**Lepidoptera: Plutellidae**

*Plutella xylostella*  
Philippines  
*Beauveria bassiana* 2727 2728 2729  
Republic of Korea  
*Beauveria bassiana* 12822  
USA, New York  
*Beauveria bassiana* 4525 4526 4527  
4528 4529 4530 4531 4532 4533  
4534 4535 4536 4537 4538 4539  
4540 4541 4542 4543 6150 6151  
6152 6153

**Lepidoptera: Pyralidae**

USA, Oregon  
*Beauveria bassiana* sensu lato  
13258 13259  
*Beauveria pseudobassiana* 13260  
13261 13262 13263  
*Acigona* sp.  
Benin  
*Beauveria bassiana* 5647 5648  
*Chilo infuscatellus*  
India  
*Beauveria* sp. 1886  
*Chilo plejadellus*  
Australia  
*Beauveria bassiana* 326  
*Cnaphalocrocis medinalis*  
Philippines  
*Beauveria bassiana* 2041 2349  
*Coniesta* sp.  
Benin  
*Beauveria bassiana* 5646  
*Diatraea saccharalis*  
Argentina  
*Beauveria bassiana* 5500 5502  
Brazil  
*Beauveria bassiana* 1832 1834 3858  
Brazil, Pernambuco  
*Beauveria bassiana* 1484 2629 3020  
Brazil, São Paulo  
*Beauveria brongniartii* 1482 1830  
*Dioryctria sylvestrella*  
Japan  
*Beauveria bassiana* 1001  
*Eldana saccharina*  
Benin  
*Beauveria bassiana* 5645 5653 5655  
*Beauveria bassiana*(?) 5644  
*Galleria mellonella*  
*Beauveria bassiana* 6894  
*Beauveria bassiana*(?) 6892  
Denmark  
*Beauveria bassiana* 8032 8033 8035  
*Beauveria brongniartii* 8034  
Greenland  
*Beauveria bassiana* 8039 8040  
Iran  
*Beauveria bassiana* 6904 6905  
Italy  
*Beauveria bassiana* 1113 1114  
Norway  
*Beauveria bassiana* 5510 7552 7553  
7554  
*Beauveria brongniartii* 7555 7556  
7557 7558 7559 7560 7561  
*Beauveria pseudobassiana* 5370  
5557  
*Beauveria* sp. 7562 7563 7564 7565  
7566 7567  
Turkey  
*Beauveria bassiana* 8339 8340 8343  
8349 8354 8355 8431 8444 8661  
8663 8664 8666 8667 8670 8672  
8673 8674  
*Beauveria* sp. 8675  
United Kingdom  
*Beauveria bassiana* 6556

USA, California <i>Beauveria bassiana</i> 6147 6148	<b>Lepidoptera: Tortricidae</b>	<b>Orthoptera: Acrididae</b>
USA, Montana <i>Beauveria bassiana</i> 6931 6932 6933 6934 6935 6936 6937 6938 6939 6940 6941 6943 6949 6950 6951 6952 6953	USA, Massachusetts <i>Beauveria bassiana</i> 5169	Australia <i>Beauveria australis</i> 4580 4622 <i>Beauveria bassiana</i> 356 357 8578 8579
USA, California <i>Beauveria bassiana</i> 7060	<i>Choristoneura</i> sp.	Brazil, Bahia <i>Beauveria bassiana</i> 1959
USA, Oregon <i>Beauveria bassiana</i> 7356 7357 7358 7359 7360 7361 7362 7364 7365 7366 7367	Canada, British Columbia <i>Beauveria bassiana</i> 1850	Brazil, Paraná <i>Beauveria bassiana</i> 1053
USA, Alaska <i>Beauveria bassiana</i> 7955 7956 7957 7958 7959 7963 7964 7965 7966 7968	<i>Cydia pomonella</i> <i>Beauveria bassiana</i> 7969	France <i>Beauveria bassiana</i> 1326
USA <i>Beauveria bassiana</i> 11613	Bulgaria <i>Beauveria bassiana</i> 6187 6194 6195 6208 6209 <i>Beauveria pseudobassiana</i> 6181	Madagascar <i>Beauveria bassiana</i> 5737 5738
USA, Washington <i>Beauveria</i> sp. 5078	France <i>Beauveria bassiana</i> 151 3972 3973 3974 3975 3977 3978 3979 5063 5064 5065 5066 5067 5068 5228 5229 5230 5231 5232 5233 5234 5235 5886 5887 5888 6182 6184 6186 6189 6191 6196 6201	PR China <i>Beauveria bassiana</i> 6230 6232 11713 11720
USA, Alaska <i>Beauveria</i> sp. 7960	Italy <i>Beauveria pseudobassiana</i> 6185	Republic of Georgia <i>Beauveria bassiana</i> 8695
USA, Missouri <i>Beauveria</i> sp. 12456 12457 12458 12459	Portugal <i>Beauveria pseudobassiana</i> 3220	Republic of Korea <i>Beauveria bassiana</i> 7235 7250
<i>Gymnancyla canella</i>	Republic of Georgia <i>Beauveria</i> sp. 6533 6534 6535 6536 6537	Russian Federation <i>Beauveria</i> sp. 4196 4197
France <i>Beauveria bassiana</i> 6796	<i>Hedyia nubiferana</i>	USA, Hawai'i <i>Beauveria bassiana</i> 7030
<i>Ostrinia nubilalis</i>	France <i>Beauveria bassiana</i> 6199	USA, Montana <i>Beauveria</i> sp. 32
Italy <i>Beauveria bassiana</i> 1121	<i>Lobesia botrana</i>	<i>Ageneotettix</i> sp.
PR China <i>Beauveria bassiana</i> 501 502 533 652	Italy <i>Beauveria bassiana</i> 1107 1110	USA, North Dakota <i>Beauveria</i> sp. 13897
USA, New York <i>Beauveria bassiana</i> 1038	<i>Rhyacionia frustrana</i>	<i>Ageneotettix deorum</i>
USA, Pennsylvania <i>Beauveria bassiana</i> 2976	USA, Georgia <i>Beauveria bassiana</i> 5573	USA, North Dakota <i>Beauveria bassiana</i> sensu lato 12414 12425 12432 <i>Beauveria</i> sp. 13872
<i>Terastia meticolosalis</i>	<b>Lepidoptera: Yponomeutidae</b>	<i>Anacridium aegyptium</i>
Brazil <i>Beauveria bassiana</i> 1836	<i>Yponomeutidae</i> sp.	Greece <i>Beauveria bassiana</i> 3607
<b>Lepidoptera: Saturniidae</b>	France <i>Beauveria bassiana</i> 3966 3967 3968 3969 3970 3971 <i>Beauveria pseudobassiana</i> 3965	<i>Arphia pseudonietana</i>
Costa Rica <i>Beauveria bassiana</i> 843	<b>Neuroptera: Chrysopidae</b>	USA, North Dakota <i>Beauveria</i> sp. 13895
<i>Opodiphthera eucalypti</i>	<i>Chrysopa</i> sp.	<i>Aulocara</i> sp.
Australia <i>Beauveria bassiana</i> 8843	Commonwealth of Independent States <i>Beauveria bassiana</i> 153	USA, North Dakota <i>Beauveria</i> sp. 13826 13840 13851 13852 13863 13864 13886 13887
<i>Schirius</i> sp.	<b>Odonata: Coenagrionidae</b>	<i>Aulocara elliotti</i>
Brazil, Paraná <i>Beauveria bassiana</i> 2962	PR China <i>Beauveria bassiana</i> 11711	USA, North Dakota <i>Beauveria bassiana</i> 12207 12213 12214 12232 12233 12234 12235 12236
<b>Lepidoptera: Sesiidae</b>	<b>Odonata: suborder Anisoptera</b>	<i>Beauveria bassiana</i> sensu lato 12253 12263 12269 12274 12275 12276 12277 12278 12279 12284 12287 12288 12289 12290 12291 12293 12294 12295 12296 12299 12301 12302 12305 12306 12307 12309 12323 12336 12412 12413
<i>Monopetalotaxis doleriformis</i>	USA, New York <i>Beauveria bassiana</i> 4688	<i>Aulocara femoratum</i>
South Africa <i>Beauveria bassiana</i> 6974 6975 6976 6977 6981 <i>Beauveria pseudobassiana</i> 6971	<b>Orthoptera</b>	USA, North Dakota <i>Beauveria bassiana</i> sensu lato 12262 12266 12280 12281 12530
<b>Lepidoptera: Stenomatinae</b>	PR China <i>Beauveria bassiana</i> 6231 9598	<i>Austracris guttulosa</i>
<i>Stenoma decora</i>	USA <i>Beauveria bassiana</i> 3622	Australia <i>Beauveria bassiana</i> 8751 8752
Brazil, Bahia <i>Beauveria bassiana</i> 1479	USA, Hawai'i <i>Beauveria bassiana</i> 8704	
<b>Lepidoptera: Thaumetopoeidae</b>	<b>Orthoptera: ?Gryllacrididae</b>	
<i>Thaumetopoea pityocampa</i>	USA, Tennessee <i>Beauveria amorpha</i> 6376 6577	
Turkey <i>Beauveria bassiana</i> 8356		

<i>Camnula pellucida</i>	USA, North Dakota	<i>Melanoplus keeleri</i>	USA, North Dakota
USA, North Dakota	<i>Beauveria bassiana</i> 12218	USA, North Dakota	<i>Beauveria</i> sp. 13806 13860 13889
<i>Beauveria bassiana</i> sensu lato	<i>Beauveria bassiana</i> sensu lato	<i>Melanoplus packardii</i>	USA, North Dakota
12285	12264 12282 12298 12303 12304	USA, North Dakota	<i>Beauveria</i> sp. 13798 13824
<i>Hadrotettix</i> sp.	12312 12334	<i>Melanoplus sanguinipes</i>	USA, North Dakota
USA, North Dakota	USA, Montana	USA, North Dakota	<i>Beauveria bassiana</i> 12197 12198
<i>Beauveria bassiana</i> sensu lato	<i>Beauveria bassiana</i> sensu lato		12199 12201 12202 12203 12205
12283	12372		12206 12212 12215 12216 12217
<i>Locusta migratoria</i>	USA, North Dakota		12222 12226 12227 12228 12229
Australia	<i>Beauveria bassiana</i> sensu lato		12239
<i>Beauveria bassiana</i> 8846	12391		<i>Beauveria bassiana</i> sensu lato
<i>Melanoplus</i> sp.	USA, Montana		12256 12257 12259 12260 12272
Greece	<i>Beauveria bassiana</i> sensu lato		12273 12286 12300 12310 12311
<i>Beauveria bassiana</i> 3866 3897 3898	12406		12313 12314 12315 12316 12317
5273	USA, North Dakota		12318 12319 12320 12321 12322
USA	<i>Beauveria bassiana</i> sensu lato		12326 12328 12329 12330 12333
<i>Beauveria bassiana</i> 3620	12529		12335 12337
USA, Montana	<i>Beauveria</i> sp. 13771 13828 13844	USA, Montana	<i>Beauveria bassiana</i> sensu lato
<i>Beauveria bassiana</i> 12209	13845 13846 13850 13855 13856		12360 12361 12362 12363 12364
USA, North Dakota	13885 13888 13911 13913 13915		12365 12368 12371 12375 12377
<i>Beauveria bassiana</i> 12221 12223	13920 13921 13922 13923 13924		USA, North Dakota
12224 12225	13925 13936 13937 13938 13939		<i>Beauveria bassiana</i> sensu lato
<i>Beauveria bassiana</i> sensu lato	13943		12366 12367 12368 12369 12370
12297 12419 12420 12421 12426	<i>Melanoplus dawsonii</i>		12371 12372 12373 12374 12375
12427 12428	USA, North Dakota		12376 12377 12378 12379 12380
<i>Beauveria</i> sp. 13802 13803 13859	<i>Beauveria bassiana</i> 12220 12230		12381 12382 12383 12384
13882 13883 13890 13955	12237 12238		12385 12386 12387 12388 12389
<i>Melanoplus bivittatus</i>	<i>Beauveria bassiana</i> sensu lato		12390 12391 12392 12393 12394
Canada, Alberta	12410		12395
<i>Beauveria bassiana</i> 8213	<i>Beauveria</i> sp. 13894 13926		USA, Montana
Mexico	<i>Melanoplus femurrubrum</i>		<i>Beauveria bassiana</i> sensu lato
<i>Beauveria bassiana</i> sensu lato	USA, North Dakota		12402 12407 12417 12422 12424
13173	<i>Beauveria bassiana</i> 12204		12429
USA, North Dakota	<i>Beauveria bassiana</i> sensu lato		USA, North Dakota
<i>Beauveria bassiana</i> 12196 12200	12261 12267 12270 12292 12324		<i>Beauveria bassiana</i> sensu lato
<i>Beauveria bassiana</i> sensu lato	12325 12327 12331		12430 12533 12534
12252 12254 12255 12258 12265	USA, Montana		<i>Beauveria</i> sp. 13770 13779 13820
12268 12271 12308 12332	<i>Beauveria bassiana</i> sensu lato		13831 13835 13836 13839 13858
USA, Montana	12366 12373 12374		13870 13873 13875 13877 13878
<i>Beauveria bassiana</i> sensu lato	USA, North Dakota		13879 13892 13918 13919 13927
12356 12357 12358 12359 12367	<i>Beauveria bassiana</i> sensu lato		13956 13957
12369 12370 12376	12387 12392 12393		<i>Oxyops vitiosa</i>
USA, North Dakota	USA, Montana		Australia
<i>Beauveria bassiana</i> sensu lato	<i>Beauveria bassiana</i> sensu lato		<i>Beauveria bassiana</i> 5987
12379 12380 12389	12398 12399 12400 12401 12405		<i>Phaulacridium vittatum</i>
USA, Montana	12408 12526 12527		Australia
<i>Beauveria bassiana</i> sensu lato	USA, North Dakota		<i>Beauveria pseudobassiana</i> 4150
12397 12403 12404	<i>Beauveria bassiana</i> sensu lato		<i>Phoetaliotes nebrascensis</i>
USA, North Dakota	12528		USA, North Dakota
<i>Beauveria bassiana</i> sensu lato	USA, Montana		<i>Beauveria bassiana</i> 12219
12415 12416 12418 12423 12431	<i>Beauveria bassiana</i> sensu lato		<i>Beauveria</i> sp. 13773 13774 13775
USA, Montana	12535		13776 13777 13778 13780 13781
<i>Beauveria bassiana</i> sensu lato	USA, North Dakota		13782 13783 13786 13787 13788
12572	<i>Beauveria</i> sp. 13784 13785 13808		13789 13790 13791 13792 13793
USA, North Dakota	USA, Wyoming		13794 13795 13796 13797 13800
<i>Beauveria</i> sp. 13799 13801 13804	<i>Beauveria</i> sp. 13818		13805 13807 13809 13810 13811
13827 13829 13837 13838 13841	USA, North Dakota		13812 13819 13821 13822 13823
13848 13893 13896 13917 13948	<i>Beauveria</i> sp. 13949 13952		13825 13830 13832 13833 13834
13954	<i>Melanoplus infantilis</i>		13842 13843 13847 13849 13853
<i>Melanoplus borealis</i>	USA, North Dakota		13854 13857 13862 13865 13866
USA, North Dakota	<i>Beauveria bassiana</i> 12231		13867 13868 13869 13871 13874
<i>Beauveria</i> sp. 13772	<i>Beauveria bassiana</i> sensu lato		13876 13880 13881 13884 13891
<i>Melanoplus confusus</i>	12411		13898 13899 13900 13901 13902
USA, Montana	<i>Beauveria</i> sp. 13861 13912 13914		13903 13904 13905 13906 13907
<i>Beauveria bassiana</i> 12208 12210			13908 13909 13910 13916 13928
12211			13929 13930 13931 13932 13933

Fungus by Host and Location

13934 13935 13940 13941 13942  
13944 13945 13946 13947 13950  
13951 13953  
*Rhammatocerus schistocercoides*  
Brazil, Mato Grosso  
*Beauveria bassiana* 7983  
*Schistocerca gregaria*  
Ethiopia  
*Beauveria bassiana* 5633 5634 5635  
5636 5637 5638 5639 5640 5641  
5642 5643

**Orthoptera: Catantopidae**  
*Calliptamus italicus*  
Republic of Georgia  
*Beauveria bassiana* 8694 8697

**Orthoptera: Gryllacrididae**  
USA, Georgia  
*Beauveria caledonica* 7117

**Orthoptera: Gryllotalpidae**  
*Gryllotalpa gryllotalpa*  
Turkey  
*Beauveria bassiana* 11688  
*Scapteriscus vicinus*  
USA, Florida  
*Beauveria bassiana* 5977

**Orthoptera: Tettigoniidae**  
*Anabrus simplex*  
*Beauveria bassiana* 7379 7380  
USA, Idaho  
*Beauveria bassiana sensu lato*  
14003 14004

**Orthoptera: Tettigonioidae**  
PR China  
*Beauveria bassiana* 6234

**Thysanoptera: Phlaeothripidae**  
*Haplothrips tritici*  
Spain  
*Beauveria bassiana* 4200

**Thysanoptera: Thripidae**  
USA, Vermont  
*Beauveria bassiana* 9927 11841  
11846 11847  
USA, New York  
*Beauveria bassiana* 11848  
*Frankliniella occidentalis*  
*Beauveria bassiana* 9588  
Spain  
*Beauveria bassiana* 3995 3996  
USA, California  
*Beauveria bassiana* 9587  
*Taeniothrips inconsequens*  
USA, Vermont  
*Beauveria bassiana* 10138  
USA, New Hampshire  
*Beauveria bassiana* 10139  
USA, Vermont  
*Beauveria bassiana* 10140 10143  
10144 10145 10147 10148  
*Thrips calcaratus*  
USA, Wisconsin  
*Beauveria pseudobassiana* 3216

**Arthropodia • Isecta**

**Hemiptera: Miridae**  
*Tupiocoris* sp.  
USA, Pennsylvania  
*Beauveria* sp. 13396

**Chordata • Mammalia**

**Artiodactyla: Bovidae**  
*Ovis aries*  
United Kingdom  
*Beauveria bassiana* 7770

**Perissodactyla: Equidae**  
*Equus ferus caballus*  
United Kingdom  
*Beauveria bassiana* 7771 7772

**Primates: Hominidae**  
*Homo sapiens*  
USA, New Mexico  
*Beauveria bassiana* 8601  
USA, Wisconsin  
*Beauveria bassiana* 8602

**Vertebrata • Reptilia**

**Chelonia: Emydidae**  
*Trachemys scripta*  
Spain  
*Beauveria bassiana(?)* 5990

**Crocodylia: Alligatoridae**  
*Alligator mississippiensis*  
USA, Oklahoma  
*Beauveria pseudobassiana* 2455

**Argentina**

Buenos Aires  
*Beauveria bassiana* 5501 7049 7201  
7202 7464 7465 7466 7467 7468 7469  
7471 7776 8368 8369 8370 8371 8459  
8460 8461 8465 8520 8521 8522 8523  
8524 8525 8526 8528 8529 8530 8929  
*Beauveria* sp. 7463  
Córdoba  
*Beauveria bassiana* 7147  
Corrientes  
*Beauveria bassiana* 8464  
Santa Fe  
*Beauveria bassiana* 5500 5502  
Tucumán  
*Beauveria bassiana* 2010 2011 2457  
2509 2515 2516 7470 8372 8373 8374  
8462 8463

**Australia**

Australian Capital Territory  
*Beauveria bassiana* 7853 8578 8579  
Macquarie Island  
*Beauveria bassiana* 4289  
New South Wales  
*Beauveria bassiana* 356 357 4130 4589  
4607 7813 8493 8753 8763 8843 8846  
8853 8854  
*Beauveria bassiana sensu stricto* 300  
Queensland  
*Beauveria bassiana* 325 326 5987 7891  
8065 8066 8751 8752 8891  
South Australia  
*Beauveria pseudobassiana* 4273  
Tasmania  
*Beauveria amorpha* 4149  
*Beauveria australis* 4580 4598 4622  
*Beauveria bassiana* 4135 4136 4258  
4276 4305 4616 4642 4672 4675 4679  
4685 4728 4744 8835 8836  
*Beauveria caledonica* 4302  
*Beauveria malawiensis* 4755  
*Beauveria pseudobassiana* 4150 4222  
4240 4254 4261 4271 4274 4285 4297  
4300 4301 4320 4326 4353 4356 4564  
4571 4583 4611 4612 4644 4658 4670  
4721 4741 4745  
Victoria  
*Beauveria bassiana* 8756 8757  
Western Australia  
*Beauveria bassiana* 7877 7878 7889  
7890

**Austria**

Burgenland  
*Beauveria bassiana* 1533 1534 1535  
1536 1537 1538 1539 1540 1635 1636  
1637 1638 1640 1643 1973 1974 1988

**Azores**

*Beauveria amorpha* 4990  
*Beauveria brongniartii* 4991 4992  
4993 4994 4995

**Belarus**

*Beauveria bassiana* 9450

**Belgium**

*Beauveria bassiana* 1848

**Benin**

*Beauveria bassiana* 5649 5653

Atakora

*Beauveria bassiana* 5654 5655

Atlantique

*Beauveria bassiana* 5645 5652

*Beauveria bassiana*(?) 5644

Borgou

*Beauveria bassiana* 5646 5647 5648

**Brazil**

*Beauveria bassiana* 1831 1832 1833  
1834 1836 2722 2723 3219 3858 4091  
4092 4093

*Beauveria* sp. 1835 3859 13290 13293  
13294

Alagoas

*Beauveria bassiana* 1953 1954 1955  
1956 1963

Amazonas

*Beauveria bassiana* 730 731 732 756  
2512 2957

Bahia

*Beauveria bassiana* 1479 1959 1960  
1961 1962 2075 3999

Ceará

*Beauveria bassiana* 753 757 783 784  
785 786 787 788 804 805 2637 4001

Distrito Federal

*Beauveria bassiana* 3018 3019

Espírito Santo

*Beauveria bassiana* 1483

Goiás

*Beauveria bassiana* 733 734 735 736  
737 738 739 752 754 758 806 809 928  
930 931 933 934 956 957 1451 1476  
1478 1971 2079 2191 2625 2626 2636  
2938 2942 2943 2944 2961

*Beauveria bassiana sensu lato* 13255

Mato Grosso

*Beauveria bassiana* 477 937 938 941  
942 943 944 945 946 947 948 949  
950 951 952 953 982 2401 2402 2403  
2404 5956 5957 5960 5961 5962 5964  
7983 7984 8637 8638

Minas Gerais

*Beauveria bassiana* 5965

Pará

*Beauveria bassiana* 2619

*Beauveria caledonica* 2251

Paraná

*Beauveria bassiana* 958 1053 1054  
1060 1061 1450 1453 1454 1455 1457  
1458 1461 1462 1463 1466 1469 2511  
2519 2520 2642 2962 3937 8635 8636

Pernambuco

*Beauveria bassiana* 1484 2629 3020

*Beauveria brongniartii* 1481 1829

Rio Grande do Sul

*Beauveria bassiana* 1456 1459 1460  
1464 1465 1475 3098 3477 5968  
5969

Santa Catarina

*Beauveria bassiana* 1467 1468 1470  
1471 1472 1473 1474

São Paulo

*Beauveria amorpha* 2641

*Beauveria bassiana* 1480 1966 2559  
2630 2631 2632 2633 2638 2639 2945  
2946 5958 5963 6513 6514

*Beauveria brongniartii* 1482 1830

**Bulgaria**

*Beauveria bassiana* 6187 6194 6195  
6208 6209

*Beauveria pseudobassiana* 6181

**Cameroon**

Centre-Sud

*Beauveria bassiana* 6526 6527 6528  
6529 6530 6531 6532

**Canada**

*Beauveria bassiana* 9184

Alberta

*Beauveria bassiana* 3462 6920 6921  
6922 6923 6924 8213

*Beauveria pseudobassiana* 2997

British Columbia

*Beauveria bassiana* 1849 1850 1852  
1853 1854 7971 7972 7978

*Beauveria pseudobassiana* 1855

Ontario

*Beauveria bassiana* 2267 3041 5807

10393 10394 10395 10396 10397

10398 10399 10400 10401 10402

10403 10404 10405 10406 10407

10408 10409 10410 10411 10412

10413 10414 10415 10416 10417

10418 10419 10420 10421 10422

10423 10424 10425 10426 10427

10428 10429 10430 10431 10432

10433 10434 10435 10436 10437

10438 10439 10440 10441 10442

10443 10444 10445 10446 10447

10448 10449 10450 10451 10452

10453 10454 10455 10456 10457

10458 10459 10460 10461 10462

10463 10464 10465 10466 10467

10468

Québec

*Beauveria bassiana* 1151 2983 2984

2985 2986 2987 2988 2989 2990 2991

**Chile**

*Beauveria bassiana sensu lato* 13369

Los Lagos

*Beauveria vermiconia* 2922

**China**

*Beauveria asiatica* 4384 4474

*Beauveria brongniartii* 4385 4386

4388 4465 4466 4467 4468 4469

4470 4471 4472 4473 4475 4476 4477

4478

## Geographical Origin

## Colombia

*Beauveria bassiana* 842 3514  
*Beauveria* sp. 590

## Cauca

*Beauveria bassiana* 6459

## Meta

*Beauveria bassiana* 796

## Nariño

*Beauveria bassiana* 2248 2249 2250

## Valle del Cauca

*Beauveria bassiana* 721

## Commonwealth of Independent States

*Beauveria bassiana* 153 154 155 220  
283 284 285 286 287 288 289 290  
291 681 2695

*Beauveria pseudobassiana* 152 292

## Costa Rica

*Beauveria bassiana* 843

## Cartago

*Beauveria bassiana* 3437 3438 3439  
3441 3442 3444 3446 3447 3449 3450  
3451 3452 3454 3455 3456 3457

## Czech Republic

*Beauveria bassiana* 159 160

## Denmark

*Beauveria bassiana* 4019  
*Beauveria brongniartii* 4024

## Funen

*Beauveria bassiana* 5857

## Fyn

*Beauveria bassiana* 4051 4055 4056

## Jutland

*Beauveria bassiana* 4021 4031 5862  
5864

## Storstrøm

*Beauveria bassiana* 4015

## Zealand

*Beauveria bassiana* 4012 4013 4018  
4023 4034 4035 4038 4041 4042 4046  
4049 4052 4053 4054 4057 5853 5861  
5863 5865 5866 7947 7948 7949 7950  
7951 7952 7953 7954 8025 8026 8027  
8028 8029 8030 8031 8032 8033 8035  
8036 8037 8038

*Beauveria brongniartii* 8034

*Beauveria caledonica* 8024

*Beauveria pseudobassiana* 5867

*Beauveria* sp. 4027

## Zeeland

*Beauveria bassiana* 4016 4026 4028  
4032

## Ecuador

*Beauveria pseudobassiana* 2557  
*Beauveria* sp. 2998

## Ethiopia

*Beauveria bassiana* 5629 5630 5631  
5632 5633 5634 5635 5636 5637 5638  
5639 5640 5641 5642 5643 6687 6688  
*Beauveria* sp. 6691

## Gojam

*Beauveria bassiana* 6693

## Northern Shoa

*Beauveria bassiana* 6669 6676 6681

## Sidamo

*Beauveria bassiana* 6689 6690

## Tigray

*Beauveria bassiana* 6695 6696 6697

## Welo

*Beauveria bassiana* 6692

## Western Shoa

*Beauveria bassiana* 6686

## Finland

*Beauveria pseudobassiana* 5622

## Vaasan Lääni

*Beauveria bassiana* 5623

## France

*Beauveria bassiana* 149 150 151 384  
1150 1157 1159 1160 1165 1167 1168  
1169 1170 1182 1186 1306 1314 1315  
1316 1319 1320 1321 1322 1323 1324  
1325 1389 1396 1397 1404 1405 1406  
1407 1408 1409 1410 1411 1412 1413  
1414 1512 1513 1515 1516 1517 1523  
1524 1792 1793 1794 1864 1865 1866  
1982 6182 6184 6186 6189 6191 6196  
6199 6205

*Beauveria brongniartii* 617 979

*Beauveria pseudobassiana* 6185

*Beauveria* sp. 1669

## Ardennes

*Beauveria bassiana* 1647

## Aude

*Beauveria bassiana* 8255

## Charente

*Beauveria bassiana* 1648

## Charente-Maritime

*Beauveria bassiana* 1975 1976 1977  
1978 1979 1980

## de Gourgas

*Beauveria bassiana* 4980

*Beauveria pseudobassiana* 4933

## Drôme

*Beauveria bassiana* 1398 1399 1649  
1795 1984

## Essonne

*Beauveria bassiana* 2318 2319

## Eure

*Beauveria bassiana* 1073 1074 1075  
1158 1193

## Eure-et-Loir

*Beauveria bassiana* 1192

## Finistere

*Beauveria bassiana* 815

*Beauveria pseudobassiana* 813 814

## Gard

*Beauveria bassiana* 3972 3973 3974  
3975 3977 3978 3979 5886 5887 5888  
6201 6796

*Beauveria pseudobassiana* 8256 8258

*Beauveria varroae* 8257

## Haute-Savoie

*Beauveria bassiana* 1317 1318 1394  
1796 1797 1798 1799

## Hérault

*Beauveria bassiana* 816 1185 3286  
3867 3893 5071 5072 5228 5229 5230  
5231 5232 5233 5234 5235

*Beauveria pseudobassiana* 5070 8254

## Loiret

*Beauveria bassiana* 1191

## Port d' Hérault

*Beauveria bassiana* 5063 5064 5065  
5066 5067 5068 5069

## Pyrénées-Orientales

*Beauveria bassiana* 1326 1520 1521

*Beauveria varroae* 8259

## Reunion Island

*Beauveria hoplocheli* 13021

## S/Céze

*Beauveria bassiana* 3966 3967 3968  
3969 3970 3971

*Beauveria pseudobassiana* 3965

## Seine-Maritime

*Beauveria bassiana* 1514

## Seine-Saint-Denis

*Beauveria bassiana* 1395 1650

## Vaucluse

*Beauveria bassiana* 812 1509 1510  
1511 1518 1519

*Beauveria* sp. 4909 4910 4911 4912

4913 4914 4915 4916 4917 4918

## Vienne

*Beauveria bassiana* 1491

## Vosges

*Beauveria bassiana* 1789 1790 1791  
*Beauveria* sp. 1327

## Yvelines

*Beauveria bassiana* 1156 1161 1162  
1194 1630 1800 1801 2253 2254 2320  
2321 2322 2458 2461 2462 2463 3120

*Beauveria pseudobassiana* 3121

## Germany

## Hesse

*Beauveria bassiana* 340

*Beauveria brongniartii* 5355 5356

5357 5358 5359 5360 5361 5362

5363 5364

## Greece

*Beauveria bassiana* 1802 1803 1812  
1822

## Crete

*Beauveria bassiana* 3607 3866 3897  
3898 5273

## Greenland

## Disko Island

*Beauveria bassiana* 8039 8040

**Hungary**

*Beauveria bassiana* 1627 1628 1629  
6967

Budapest

*Beauveria bassiana* 6612 6613 6614  
6968 6969 6970

*Beauveria bassiana*(?) 6608

Csongrád

*Beauveria bassiana* 6884 6885

**India**

*Beauveria bassiana* 2417 2597

*Beauveria brongniartii* 2660

*Beauveria* sp. 2412

Andhra Pradesh

*Beauveria bassiana* 6643 6644 6646  
6647 6648 6650

Tamil Nadu

*Beauveria* sp. 1886 8250

**Indonesia**

Jawa Barat, Java

*Beauveria bassiana* 2427

Lombok Island

*Beauveria bassiana* 560

Yogyakarta, Java

*Beauveria bassiana* 566

**Iran**

*Beauveria bassiana* 6905 10353 10354

10355 10356 10357 10358 10359

10361 10362 11620

Sistan Va Baluchestan

*Beauveria bassiana* 6903

Tehran

*Beauveria bassiana* 6904

**Italy**

*Beauveria bassiana* 1105 1559 1560

1561 1562 1563

Emilia-Romagna

*Beauveria bassiana* 1103 1104 1107

1110 1113 1114 1115 1117 1118 1119

1122 1558 1564

*Beauveria pseudobassiana* 1565

Lazio

*Beauveria* sp. 1195 1196 1197 1198

1201 1202 1203 1204 1205 1206 1207

1209 1210 1211 1213 1214 1215 1216

1218 1219 1220 1221 1222 1224

Sicily

*Beauveria bassiana* 1106

Toscana

*Beauveria bassiana* 1525 1526 1527

1528

*Beauveria* sp. 1199 1200 1208

Umbria

*Beauveria bassiana* 1529 1531

Venetia

*Beauveria bassiana* 1121

**Ivory Coast**

*Beauveria bassiana* 5436 5437 5438

5439 5440 5441 5442 5459 5460 5477

5482 5483 5484 5485 5486 5487

**Japan**

*Beauveria bassiana* 302 303 304 305

308 7256 7257 7258 7259

*Beauveria brongniartii* 6235

Aichi Prefecture

*Beauveria bassiana* 1041

Hokkaido

*Beauveria brongniartii* 4362 4363

4389 4458

*Beauveria* sp. 4364 4365 4390 4391

4392 4393 4394 4395 4396 4397

Hokkaido Prefecture

*Beauveria bassiana* 4377 4378 4379

7519 7520 7521

*Beauveria bassiana* sensu stricto 7518

Ibaraki Prefecture

*Beauveria bassiana* 1098

*Beauveria brongniartii* 6412

*Beauveria sungii* 1685

Ishikawa Prefecture

*Beauveria bassiana* 1677

Kumamoto Prefecture

*Beauveria bassiana* 1679

Nagano Prefecture

*Beauveria amorpha* 1676

*Beauveria bassiana* 1683

*Beauveria* sp. 1682

Nagasaki Prefecture

*Beauveria bassiana* 1678

Osaka Prefecture

*Beauveria bassiana* 1553 1554 1555

1556

Tokyo Prefecture

*Beauveria amorpha* 1680

*Beauveria bassiana* 987 1001 1007

*Beauveria brongniartii* 985

*Beauveria* sp. 1040 1681

**Kazakhstan**

*Beauveria bassiana* 6478 6483 9451

11618 11619

**Kenya**

*Beauveria bassiana* 2685 2686 2687

**Kyrgyz Republic**

*Beauveria bassiana* 6499 8932 10352

**Laboratory manipulation**

*Beauveria bassiana* 34 275 276 277

278 279 280 281 282 2785 3113 3215

3825 3890 3891 3892 3905 3906 3907

3908 4014 4017 4099 4100 4101 4105

4106 4107 4108 4109 4110 4111 4112

4113 4114 4115 4116 4117 4118 4119

4120 4121

*Beauveria bassiana* sensu lato 13304

13305 13306 13307

**Madagascar**

*Beauveria bassiana* 5737 5738

**Malawi**

Southern

*Beauveria malawiensis* 7760

**Malaysia**

*Beauveria* sp. 547

**Mexico**

*Beauveria bassiana* 319 2693 3287

3288 3309 3311 9297 9298 9299 9300

9301 9302

*Beauveria* sp. 3289

Campeche

*Beauveria* sp. 11754

Coahuila

*Beauveria bassiana* sensu lato 13167

13168 13169 13173

Colima

*Beauveria bassiana* 3310 3312 5740

Durango

*Beauveria bassiana* 2857

Jalisco

*Beauveria bassiana* 2330 5741 5742

5743 5744 5745

Nuevo León

*Beauveria bassiana* 2487 2544 3285

Oaxaca

*Beauveria bassiana* 3818 3819

Sinaloa

*Beauveria bassiana* 2484 2485 2486

Tabasco

*Beauveria bassiana*(?) 6890 6891

**Morocco**

*Beauveria bassiana* 1153 1154 1155

1163 1164 1171 1172 1173 1174 1175

1176 1177 1178 1179 1180 1181 1183

1188 1189 1190 1309 1311 1312 1313

1811 1815 1816 1817 1818 1819 1820

1821

**Nepal**

*Beauveria bassiana* 7273 7274

**Netherlands**

*Beauveria brongniartii* 7761

**New Zealand**

South Island

*Beauveria bassiana* 8077 8078 8079

*Beauveria brongniartii* 3054

*Beauveria pseudobassiana* 3055 3063

3065 3066 3070

**Nicaragua**

*Beauveria bassiana* 3440 3443 3445

3448 3453

Carazo

*Beauveria bassiana* 6801 6802 6803

6804 6805 6806 6807 6808 6809

**Nigeria**

Cross River

*Beauveria bassiana* 5650 5651

**Norway**

Akershus

*Beauveria bassiana* 6900 11660

*Beauveria pseudobassiana* 5370

Nord Trøndelag

*Beauveria bassiana* 5510

Sogn og Fjordane

*Beauveria bassiana* 7552 7553 7554

*Beauveria brongniartii* 7555 7556

7557 7558 7559 7560 7561



## Geographical Origin

<i>Beauveria</i> sp. 7562 7563 7564 7565 7566 7567	Hebei Province <i>Beauveria bassiana</i> 7156 7157 7166 7167 7168 7169 7170 7171 7172 7173 7174 7175 7176 7177 7178	Kangwon-do <i>Beauveria asiatica</i> 4850 <i>Beauveria bassiana</i> 6721 7236 7237 7238 7244 7246 7247 7251 7252 7253 7254 7255 7260 7261 7264 7265 7267 <i>Beauveria brongniartii</i> 7268 <i>Beauveria pseudobassiana</i> 7242 <i>Beauveria sungii</i> 5689 7279 7280 7281
Troms <i>Beauveria pseudobassiana</i> 5557	Hunan <i>Beauveria amorpha</i> 656 <i>Beauveria brongniartii</i> 678	Yeongnam Region <i>Beauveria bassiana</i> 11715
<b>Papua New Guinea</b> <i>Beauveria</i> sp. 2164	Hupei <i>Beauveria bassiana</i> 654 679 714 717 719	<b>Romania</b> <i>Beauveria bassiana</i> 6228
<b>Peru</b> <i>Beauveria bassiana</i> 5982 Andes Mountains <i>Beauveria amorpha</i> 1969 Junín <i>Beauveria bassiana</i> 5983 La Libertad <i>Beauveria bassiana</i> 5984	Shaanxi Province <i>Beauveria lii</i> 11741 Sichuan Province <i>Beauveria bassiana</i> 6027 Zhijiang <i>Beauveria bassiana</i> 718	<b>Rumania</b> Munténia <i>Beauveria pseudobassiana</i> 299
<b>Philippines</b> Benguet <i>Beauveria bassiana</i> 2725 2727 2728 2729 2737 2739 2748 3197 3198 3199 5287 5288 5289 5290 5291 5292 5293 5294 5295 5296 Luzon <i>Beauveria bassiana</i> 4981 4982 4983 4984 Manila <i>Beauveria bassiana</i> 2041 2349 <i>Beauveria brongniartii</i> 1431 Palawan <i>Beauveria bassiana</i> 1269 1270 Quezon <i>Beauveria bassiana</i> 3181	<b>Republic of China</b> Taiwan <i>Beauveria bassiana</i> 4866	<b>Russian Federation</b> <i>Beauveria bassiana</i> 6008 6019 <i>Beauveria</i> sp. 4196 4197 Irkutsk Region <i>Beauveria bassiana</i> 7593 Karachayevo-Cherkessiya Republ <i>Beauveria bassiana</i> 9446 <i>Beauveria brongniartii</i> 9452 <i>Beauveria</i> sp. 7579 7584 Krasnodarsky Krai <i>Beauveria bassiana</i> 7583 9444 <i>Beauveria</i> sp. 7587 Lipetsk Oblast <i>Beauveria</i> sp. 7597 Moscow Region <i>Beauveria bassiana</i> 9441 9449 Primorsky Krai <i>Beauveria bassiana</i> 7581 7585 9442 9445 <i>Beauveria</i> sp. 7580 7582 7586 7588 7591 7594 7598 Rostov <i>Beauveria bassiana</i> 6009 6011 6013 6014 6016 6039 6040 6041 6042 <i>Beauveria brongniartii</i> 6023 <i>Beauveria pseudobassiana</i> 6015 6022 6043 Sakhalin Region <i>Beauveria bassiana</i> 7590 7596 9443 <i>Beauveria</i> sp. 7589 Tver Region <i>Beauveria brongniartii</i> 9453
<b>Poland</b> <i>Beauveria bassiana</i> 158 301 333 334 335 474 <i>Beauveria brongniartii</i> 1366 <i>Beauveria pseudobassiana</i> 156 157 1359 1360	<b>Republic of Georgia</b> <i>Beauveria bassiana</i> 8695 8697 <i>Beauveria</i> sp. 13757 13758 Autonomous Republic of Adjara <i>Beauveria bassiana</i> 13666 <i>Beauveria bassiana</i> sensu stricto 13682 13692 13693 13703 13705 13710 13713 13717 13720 13721 13722 13724 13725 13726 13727 13732 13734 13736 13737 13738 13739 13742 13743 13744 13745 13746 13747 <i>Beauveria</i> sp. 13678 13683 13687 13688 13689 13691 13696 13697 13711 13735 Guria <i>Beauveria</i> sp. 13755 13756 Kakheti <i>Beauveria bassiana</i> 8694 <i>Beauveria bassiana</i> sensu stricto 13749 13754 <i>Beauveria</i> sp. 6537 Kvemo Kartli <i>Beauveria bassiana</i> sensu stricto 13750 13751 Mtskheta-Mtianeti <i>Beauveria</i> sp. 6533 6534 6535 6536 13748 13752	<b>Scotland</b> Grampian <i>Beauveria caledonica</i> 2567
<b>Portugal</b> <i>Beauveria pseudobassiana</i> 3220 Azores <i>Beauveria bassiana</i> 5148 5150 <i>Beauveria</i> sp. 4920	<b>Republic of Kazakhstan</b> <i>Beauveria bassiana</i> 10350 10351	<b>Slovakia</b> <i>Beauveria bassiana</i> 12957 12958 12960 12961 12962 12964 12965 12966 12967 12968 12970 12971 12973 12974 12975 12977 12978 12979 12980 <i>Beauveria caledonica</i> 12963 12969 12972 <i>Beauveria pseudobassiana</i> 12959 12976 12981
<b>PR China</b> <i>Beauveria bassiana</i> 501 502 533 652 708 709 6387 6793 6794 6795 Anhui <i>Beauveria amorpha</i> 6227 <i>Beauveria amorpha</i> (?) 6827 <i>Beauveria bassiana</i> 6230 6231 6232 6233 6234 6390 8414 Gansu Province <i>Beauveria bassiana</i> 7155 7164 Guangxi Zhuang Autonomous Region <i>Beauveria bassiana</i> 11713 Guizhou Province <i>Beauveria bassiana</i> 9595 9598 9600 11708 11711 11712 11716 11717 11719 11720 <i>Beauveria brongniartii</i> 9599 <i>Beauveria pseudobassiana</i> 6229 <i>Beauveria</i> sp. 9596 9597 11709 11714	<b>Republic of Korea</b> <i>Beauveria bassiana</i> 2040 6658 6722 6723 12822 <i>Beauveria</i> sp. 4853 Chungnam Province <i>Beauveria bassiana</i> 7239 7240 <i>Beauveria</i> sp. 5697 Gyeongbuk Province <i>Beauveria bassiana</i> 7275 Gyeonggi Province <i>Beauveria bassiana</i> 7235 7250 7266 Jeju Province <i>Beauveria bassiana</i> 7241 7271 7272 Jheonnam <i>Beauveria bassiana</i> 7269 7270	

**South Africa**

Cape Province  
*Beauveria bassiana* 6973 6974 6975  
 6976 6977 6981 6982 6984  
*Beauveria pseudobassiana* 6971  
 Free State  
*Beauveria bassiana* 5704 6978 6979  
 6980  
*Beauveria pseudobassiana* 6972  
 Western Cape Province  
*Beauveria bassiana* 5705

**Spain**

*Beauveria bassiana* 886 1149 1166  
 1788 1804 1805 1806 1807 1808 1809  
 1810 1813 1814  
*Beauveria bassiana*(?) 5990  
 Murcia  
*Beauveria bassiana* 3995 3996 4200

**Sri Lanka**

*Beauveria bassiana* 2454 7758

**Switzerland**

*Beauveria brongniartii* 1069  
*Beauveria varroae* 2694  
 Bern  
*Beauveria brongniartii* 7528  
 Lucerne  
*Beauveria bassiana* 7525 7526  
 Schaffhausen  
*Beauveria bassiana* 1566  
*Beauveria caledonica* 1567  
 Thurgau  
*Beauveria brongniartii* 1067 1068  
 1070 1071 1072 1076 1077

**Syria**

*Beauveria bassiana* 6065 6066 6067  
 6069 6070 6079 6086 6087 6088 6089  
 6090 6091 6149  
 Halab  
*Beauveria bassiana* 5674

**Thailand**

*Beauveria bassiana* 537

**The Palestinian Authority**

*Beauveria bassiana* 8409 8410

**Togo**

*Beauveria bassiana* 2688 2689 2690  
 2691 2692 5443 5444 5445 5446 5447  
 5448 5449 5450 5451 5452 5453 5454  
 5455 5456 5457 5458 5478 5479 5480  
 5481 5488 5489 5490

**Trinidad**

*Beauveria bassiana* 13506  
*Beauveria* sp. 13661

**Turkey**

*Beauveria bassiana* 3169 6426 10347  
 10348 10349 12165  
*Beauveria* sp. 12168 12169  
 Adana  
*Beauveria bassiana* sensu lato 12910  
 12915 12916  
 Adiyaman  
*Beauveria bassiana* 6404  
 Ankara  
*Beauveria bassiana* 3154 3155 3156  
 3157 3158 3166 3167 3168  
*Beauveria pseudobassiana* 3153  
 Artvin  
*Beauveria bassiana* 8349 8354  
 Bayburt  
*Beauveria bassiana* 8673 8674  
 Erzurum  
*Beauveria bassiana* 8664 8666  
 Gaziantep  
*Beauveria bassiana* 5670 5671 5672  
 5673 5725  
*Beauveria bassiana*(?) 5684  
*Beauveria pseudobassiana* 5669 5678  
*Beauveria* sp. 5686 5832 5833  
 Gümüşhane  
*Beauveria bassiana* 8661 8663 8667  
 8668 8670 8672  
*Beauveria* sp. 8675  
 Hatay  
*Beauveria pseudobassiana* 5668  
 Kahraman Maras  
*Beauveria bassiana* 5665 5667 5753  
 5762  
*Beauveria pseudobassiana* 5724  
*Beauveria* sp. 5831  
 Kayseri Province  
*Beauveria* sp. 12537  
 Ordu  
*Beauveria bassiana* 8340 8343 8431  
 8444  
 Rize  
*Beauveria bassiana* 8355  
 Samsun Province  
*Beauveria bassiana* 8356  
*Beauveria* sp. 11739  
 Trabzon  
*Beauveria bassiana* 8339 11688  
*Beauveria bassiana*(?) 9271  
*Beauveria* sp. 9272

**Ukraine**

Autonomous Republic of Crimea  
*Beauveria bassiana* 9447 9448  
 Kherson Oblast  
*Beauveria* sp. 7595

**United Kingdom**

*Beauveria bassiana* 6552 6553 6555  
 6556 6557 6559 6560 6563 6564 6565  
 6566 6567 6568 7764 7765 7766 7767  
 7769 7770 7771 7772 7773 7774 7775  
*Beauveria brongniartii* 7762  
*Beauveria bassiana* sensu lato 13224  
 13228  
*Beauveria* sp. 13226

**England**

*Beauveria bassiana* 2972 7533 7534  
 7763 7768

**Scotland**

*Beauveria bassiana* 6100 6101 6177  
 6178

**Uruguay**

*Beauveria bassiana* 5967

**Colonia**

*Beauveria bassiana* 5966

**USA**

*Beauveria bassiana* 710 3620 3622  
 11613 11614 11615 11616 11617

**Alaska**

*Beauveria bassiana* 7955 7956 7957  
 7958 7959 7963 7964 7965 7966 7968  
*Beauveria* sp. 7960

**Arizona**

*Beauveria bassiana* 5283 5284 10478  
 10481 10531 10533 10534 10535  
 10539 10540 10541 10544 10545  
 10560 10570 10571 10580 10588  
 10589 10590 10591 10592 10593  
 10604 10614 10615 10641 10715  
 10716 10717 10718 10719 10722  
 10724 10725 10726 10731 10733  
 10734 10735 10736 10737 10738  
 10739 10740 10742 10743 10744  
 10745 10747 10750 10840 10841  
 10862 10864 10882 10883 10884  
 11096 11097 11098 11099 11100  
 11101 11102 11147 11217 11222  
 11231 11232 11233 11234 11238  
 11239 11241 11255 11380 11397  
 11403 11404 11426 11438 11456  
 11464 11466 11468 11469 11473  
 11475 11478 11489 11499 11506  
 11540 11542 11543 11549 11556  
 11562 11564 11569 11585 11586  
 11901 11902 11905 11906 11907  
 11908 11909 11910 11911 11912  
 11914 11919 11920 11921 11922  
 11923 11924 11925 11926 11927  
 11928 11929 11930 11931 11932  
 11933 11934 11935 11936 11937  
 11938 11952 11953 11954 11955  
 11958 11959 11960 11962 11968  
 11969 11974 11985 11988 12004  
 12007 12008 12010 12025 12026  
 12092 12093 12094 12099 12102  
 12115 12141 12146 12149 12150  
 12157 12158  
*Beauveria bassiana* sensu stricto  
 13434 13437 13438 13439  
*Beauveria pseudobassiana* 10480  
 10492 10732 10845 10846 10847  
 10848  
*Beauveria* sp. 11745 11746 11747  
 13435 13436 13440 13960 13961  
 13963 13964 13965 13967

**Arkansas**

*Beauveria bassiana* 3769 7404

**California**

*Beauveria bassiana* 5970 5971 5972  
 6147 6148 6660 6661 7060 8318

8933 8934 8935 8936 8937 8938 8939	11887 11891	13409 13410 13411 13412 13420
8940 8958 8959 8960 8961 8962 8963	<i>Beauveria pseudobassiana</i> 10658	13423
8964 8965 8966 8967 8968 8969 8970	10667 10668 10670 10671 10672	Hawaii
8971 8972 8973 8974 8975 8976 8977	10674 10676 10677 10707 10709	<i>Beauveria bassiana</i> 3040 8706 8707
8978 8979 8980 8981 8982 8983 9193	10720 10730 11110	8708 8710 8711 8712 10471 13515
9194 9195 9196 9197 9198 9199 9200	<i>Beauveria</i> sp. 13959	13516 13517 13518 13519 13520
9201 9202 9203 9204 9205 9206 9207	Connecticut	13521 13536 13542 13543 13544
9208 9209 9210 9211 9212 9213 9214	<i>Beauveria bassiana</i> 5767 6393	13545 13546 13547 13548 13549
9215 9216 9219 9220 9221 9222 9223	<i>Beauveria bassiana</i> (?) 5816 5817	13550 13551 13552 13554 13555
9224 9225 9226 9227 9228 9229 9230	5818	13556 13557 13558 13559 13560
9231 9232 9233 9234 9345 9346 9347	Delaware	13561 13562 13563 13564 13565
9348 9349 9350 9351 9352 9353 9587	<i>Beauveria bassiana</i> 2570 2571 2572	13566 13567 13568 13569 13572
10186 10595 10617 10664 11541	2573	13573 13574 13575 13576 13577
11571 11574 11578 11621 11622	Florida	13578 13579 13580 13581 13582
11623 11624 11625 11626 11627	<i>Beauveria bassiana</i> 320 412 413 416	13583 13584 13585 13586 13587
<i>Beauveria pseudobassiana</i> 10634	2236 2869 3086 4667 5973 5974 5977	13588 13596 13597 13598
Colorado	5978 5979 5980 5981 5985 5986 5988	<i>Beauveria kipukae</i> 7032
<i>Beauveria amorpha</i> 7542 11113	5989 5991 7940	<i>Beauveria</i> sp. 13370 13382 13383
<i>Beauveria bassiana</i> 7540 7541 10577	<i>Beauveria bassiana</i> (?) 5975 5976	13384 13385 13386 13387 13388
10596 10597 10613 10619 10620	<i>Beauveria bassiana</i> sensu lato 13303	13389 13390 13391 13392 13393
10621 10622 10627 10645 10647	<i>Beauveria</i> sp. 13570 13571	13394 13395 13398 13399 13413
10651 10652 10653 10657 10659	Georgia	13414 13415 13416 13417 13418
10660 10661 10662 10663 10665	<i>Beauveria bassiana</i> 336 337 2676 5573	13419 13421 13422 13424 13595
10666 10669 10673 10678 10705	<i>Beauveria caledonica</i> 7117	Idaho
10706 10708 10710 10711 10712	Hawai'i	<i>Beauveria bassiana</i> 2336 2860 2861
10713 10714 10721 10723 10727	<i>Beauveria bassiana</i> 7030 8704 8705	2864 2879 2880 2881 2882 2883
10728 10729 10995 10996 11019	8709 12573 12574 12575 12576 12577	10926 11246 11247 11248 11249
11083 11084 11085 11086 11088	12578 12579 12580 12581 12582	11250 11346 11375 11417 11419
11089 11090 11091 11092 11093	12583 12584 12585 12586 12587	11420 11422 11447 11448 11505
11094 11095 11106 11107 11108	12588 12589 12590 12591 12592	11519 11530 11550 11573 11575
11109 11111 11112 11114 11115	12593 12594 12595 12596 12597	11917 11966 12100 12103 12110
11116 11117 11121 11122 11123	12598 12599 12600 12601 12602	<i>Beauveria bassiana</i> sensu lato 14003
11131 11132 11133 11134 11135	12603 12604 12605 12606 12607	14004
11136 11137 11138 11139 11145	12608 12609 12610 12611 12612	<i>Beauveria bassiana</i> sensu stricto
11146 11148 11150 11154 11155	12613 12614 12615 12616 12617	13445
11156 11157 11158 11159 11160	12618 12619 12620 12805 12806	<i>Beauveria pseudobassiana</i> 11105
11161 11162 11163 11164 11165	12807 12808 12809 12810 12811	<i>Beauveria</i> sp. 13966
11166 11168 11169 11170 11171	12812 12813 12814 12815 12816	Illinois
11173 11175 11176 11178 11179	12821 12891 12892 12893 12894	<i>Beauveria bassiana</i> 7152 7153 7154
11180 11181 11182 11183 11184	13522 13523 13524 13525 13526	<i>Beauveria bassiana</i> sensu lato 14002
11185 11218 11219 11220 11240	13527 13528 13529 13530 13531	Kansas
11243 11244 11245 11251 11252	13532 13533 13534 13535 13537	<i>Beauveria bassiana</i> 792 2430 6471
11253 11254 11259 11260 11261	13538 13539 13540 13553 13589	11174 11177 11189 11190 11191
11262 11263 11268 11278 11279	13590 13591 13592 13593 13594	11192 11193 11197 11198 11570
11282 11283 11284 11285 11286	<i>Beauveria bassiana</i> sensu lato 12982	Kentucky
11287 11312 11326 11330 11344	12983 12984 12985 12986 12987	<i>Beauveria bassiana</i> 2270
11345 11352 11353 11354 11355	12988 12989 12990 12991 12992	<i>Beauveria brongniartii</i> 2271
11360 11361 11362 11363 11365	12993 12994 12995 12996 12997	Louisiana
11368 11369 11370 11371 11372	12998 12999 13000 13001 13002	<i>Beauveria bassiana</i> 6906 6907 6908
11377 11378 11381 11382 11384	13003 13004 13005 13006 13007	Maine
11386 11388 11389 11390 11391	13008 13009 13010 13011 13012	<i>Beauveria bassiana</i> 33 252 353 8383
11392 11393 11394 11395 11398	13013 13014 13015 13016 13017	8384 8385 8386 8387 8388 8389 8390
11402 11405 11409 11410 11411	13018 13019 13020 13046 13047	8391 8392 8393 8394 8395 8396 8397
11412 11413 11416 11418 11423	13048 13049 13050 13051 13052	8398 8399 8400 8401 8402 8403 8404
11424 11425 11427 11428 11429	13053 13054 13055 13056 13057	8405 8406 8407 8408 9550 9558 9559
11430 11431 11432 11439 11440	13058 13059 13060 13061 13062	9560 9561 9562 9563 9564 9565 9566
11441 11442 11443 11444 11451	13063 13064 13065 13066 13067	<i>Beauveria brongniartii</i> 7058
11452 11453 11454 11458 11460	13068 13069 13070 13071 13072	<i>Beauveria bassiana</i> sensu stricto
11465 11472 11474 11477 11479	13073 13074 13075 13076 13077	12347 12348 12349 12350 12351
11481 11482 11483 11484 11486	13078 13079 13080 13081 13082	12352 12353 12354 12355
11490 11491 11493 11494 11495	13083 13084 13085 13086 13087	Maryland
11496 11497 11498 11500 11501	13089 13090 13091 13092 13093	<i>Beauveria bassiana</i> 2831 3404 3530
11503 11504 11507 11513 11514	13094	8998
11515 11516 11517 11520 11523	<i>Beauveria</i> sp. 13377 13378 13379	<i>Beauveria brongniartii</i> 7376
11524 11525 11526 11527 11528	13380 13381 13397 13407 13408	<i>Beauveria pseudobassiana</i> 3529
11529 11610 11611 11875 11886		

Massachusetts	12465 12467 12468 12469 12470	<i>Beauveria bassiana</i> sensu lato 12943
<i>Beauveria bassiana</i> 1 3037 5169 5170	12471 12472 12473 12474 12475	12944 12945 12946 12947 12948
5171 5770 5796	12476 12477 12478 12479 12480	12949 12950 12951 12952 14001
Michigan	12482 12484 12485 12486 12487	<i>Beauveria bassiana</i> sensu stricto
<i>Beauveria bassiana</i> 2580 5813 7160	12488 12490 12491 12492 12493	13462 13463 13469
7161 7162 7163 7165 8189 8190 8191	12494 12495 12496 12497 12498	<i>Beauveria pseudobassiana</i> 10616
8192 8193 8194 8195 8260 8261 8262	12499 12500 12501 12502 12503	10753 10772
8263 8271 8272 8273 8274 8275 8276	12504 12505 12506 12507 12508	<i>Beauveria</i> sp. 13458 13459 13464
8771 8772 8773 8774	12509 12510 12512 12513 12514	13465 13466 13468 13973 13975
<i>Beauveria bassiana</i> (?) 8801 8802 8803	12515 12517 12518 12519 12520	13976 13977 13978
8804 8805 8807 8808 8809 8810 8811	12521 12522 12525 12526 12527	Nevada
8812 8813 8814 8815 8816 8817 8818	12535 12572 12920 12921 12922	<i>Beauveria bassiana</i> 11149 11151
8819	12923 12924 12925 12926 12927	11152 11153 11194 11195 11196
<i>Beauveria</i> sp. 8110 8111 8112 8113	12928 12929 12930 12931 12932	11208 11209 11210 11211 11227
8116 8117 8119 8120 8121 8122 8123	12933 12934 12935 12936 12937	11228 11229 11258 11316 11327
8124 8125 8126 8127 8128 8129 8130	12938 12939 12940 12942 12953	11329 11331 11332 11333 11334
8132 8133 8134 8135 8136 8137 8138	12954 12955 12956 13310 13311	11337 11343 11347 11348 11349
8139 8140 8141 8143 8144 8145 8146	13312 13330 13331 13332 13333	11350 11351 11471 11476 11532
8147 8148 8149 8150 8151 8152 8153	13334 13335 13336 13337 13338	11546 11551 11555 11558 11559
8154 8156 8158 8159 8160 8161 8164	13339 13340 13341 13342 13343	11572 11600 11606 11893 11894
8166 8167 8168 8169 8170 8171 8172	13344 13345 13346 13347	11895 11896 11897 11899 11900
8173 8174 8175 8176 8177 8178 8180	<i>Beauveria bassiana</i> sensu stricto	11964 11975 11980 11981 11996
8181 8182 8185 8186 8187 8188	13446 13447 13448 13449 13456	12009 12011 12018 12019 12105
Minnesota	<i>Beauveria pseudobassiana</i> 10648	12123 12187 12188
<i>Beauveria pseudobassiana</i> 8045 8046	10701 10703 11067 11068 11074	<i>Beauveria bassiana</i> sensu stricto
Mississippi	12240 12241 12242 12243 12244	13442
<i>Beauveria bassiana</i> 8317 8889	12245 12246 12247 12248 13309	<i>Beauveria</i> sp. 13962
Missouri	13313 13314 13315 13316 13317	New Hampshire
<i>Beauveria</i> sp. 12456 12457 12458	13318 13319 13320 13321 13322	<i>Beauveria bassiana</i> 10139
12459	13323 13324 13325 13326 13327	New Mexico
Montana	13328 13329 13453 13454	<i>Beauveria bassiana</i> 8601 11400 11492
<i>Beauveria amorphia</i> 10650 13451	<i>Beauveria</i> sp. 32 13450 13455 13457	11970 11979 11990 12124
13452 13470	13467 13970 13971 13972	New York
<i>Beauveria bassiana</i> 6929 6931 6932	Nebraska	<i>Beauveria bassiana</i> 350 534 535 536
6933 6934 6935 6936 6937 6938	<i>Beauveria bassiana</i> 2199 3111 3112	1038 1039 1081 1619 1620 1621 1622
6939 6940 6941 6942 6943 6944 6948	10483 10564 10565 10567 10573	1623 1624 1704 1705 1706 1707 1708
6949 6950 6951 6952 6953 6954 6955	10574 10578 10583 10599 10603	1709 1710 1711 1712 1713 1721 1722
6956 6957 10649 10655 10656 10700	10605 10606 10607 10629 10631	1723 1749 1750 1775 1776 1777 1778
10704 11025 11031 11032 11033	10639 10741 10746 10748 10749	1779 1780 1781 2030 2031 2032 2033
11034 11035 11056 11057 11058	10751 10752 10754 10755 10756	2034 2953 3460 3667 4462 4463 4464
11059 11060 11061 11062 11063	10757 10759 10760 10766 10767	4523 4524 4525 4526 4527 4528 4529
11064 11065 11066 11069 11070	10771 10773 10774 10800 10801	4530 4531 4532 4533 4534 4535 4536
11071 11072 11073 11264 11265	10802 10803 10805 10807 10808	4537 4538 4539 4540 4541 4542 4543
11266 11267 11270 11271 11272	10812 10813 10814 10815 10820	4688 4691 4692 4693 4694 4695 4696
11273 11274 11275 11276 11277	10825 10833 10834 10836 10842	4697 4973 4974 4975 4976 4977 4978
11295 11299 11300 11301 11302	10843 10844 10849 10851 10853	4979 5339 5340 5341 5342 5343 5344
11303 11308 11309 11310 11314	10855 10856 10858 10860 10869	5345 5346 5347 5533 5534 5535 5536
11373 11414 11415 11421 11434	10870 10871 10873 10876 10877	5537 5808 6150 6151 6152 6153 6216
11435 11436 11437 11467 11470	10878 10879 10880 10881 10921	6217 6391 6578 6986 6987 6988 7158
11547 11553 11561 11565 11576	11026 11027 11028 11029 11030	7159 7179 8237 8238 8239 8240 8241
11581 11597 11916 12013 12014	11036 11037 11038 11039 11040	8242 8243 8244 8245 8246 8247 8412
12015 12016 12017 12020 12021	11041 11042 11043 11044 11045	8413 9551 9552 9553 9554 9555 9556
12107 12108 12125 12151 12208	11046 11047 11048 11075 11076	9557 11848 12460 13813
12209 12210 12211	11077 11078 11079 11080 11081	<i>Beauveria brongniartii</i> 6213 6214
<i>Beauveria bassiana</i> sensu lato 12356	11082 11188 11584 11588 11589	6215
12357 12358 12359 12360 12361	11601 11874 11971 11976 11977	<i>Beauveria bassiana</i> sensu stricto
12362 12363 12364 12365 12366	11978 11982 11983 11984 11991	12339 12340 12341 12342 12343
12367 12368 12369 12370 12371	11992 11993 11994 11995 11997	12344 12345 12346
12372 12373 12374 12375 12376	11999 12000 12001 12002 12003	North Dakota
12377 12397 12398 12399 12400	12006 12022 12095 12096 12097	<i>Beauveria bassiana</i> 5466 5467 5468
12401 12402 12403 12404 12405	12098 12104 12106 12109 12111	6945 6946 6947 10479 10482 10484
12406 12407 12408 12417 12422	12112 12113 12119 12135 12136	10485 10486 10487 10488 10489
12424 12429 12434 12435 12436	12138 12139 12143 12144 12147	10496 10497 10498 10500 10503
12437 12438 12439 12440 12441	12148 12153 12154 12159 12161	10504 10508 10511 10512 10513
12442 12443 12445 12448 12449	12183 12184 12189 12191 12192	10514 10517 10519 10520 10521
12450 12451 12462 12463 12464	13624	10523 10524 10525 10527 10528

10529	10530	10536	10537	10538	13889	13890	13891	13892	13893	11342	11364	11376	11379	11396		
10542	10543	10546	10549	10561	13894	13895	13896	13897	13898	11399	11401	11408	11449	11450		
10586	10600	10601	11502	11566	13899	13900	13901	13902	13903	11457	11459	11461	11462	11463		
11567	11591	11592	11593	11594	13904	13905	13906	13907	13908	11480	11485	11487	11488	11512		
11595	11596	11598	12131	12133	13909	13910	13911	13912	13913	11521	11545	11579	11986	11987		
12142	12152	12160	12162	12185	13914	13915	13916	13917	13918	12130	12132					
12196	12197	12198	12199	12200	13919	13920	13921	13922	13923	Tennessee						
12201	12202	12203	12204	12205	13924	13925	13926	13927	13928	<i>Beauveria amorpha</i> 6376 6577						
12206	12207	12212	12213	12214	13929	13930	13931	13932	13933	Texas						
12215	12216	12217	12218	12219	13934	13935	13936	13937	13938	<i>Beauveria bassiana</i> 3097 5465 7795						
12220	12221	12222	12223	12224	13939	13940	13941	13942	13943	9355	10582	10602	10610	10624	10679	
12225	12226	12227	12228	12229	13944	13945	13946	13947	13948	10681	10682	10683	10684	10685		
12230	12231	12232	12233	12234	13949	13950	13951	13952	13953	10686	10687	10689	10691	10692		
12235	12236	12237	12238	12239	13954	13955	13956	13957		10693	10694	10695	10696	10697		
<i>Beauveria bassiana</i> sensu lato 12252					Ohio					10698 10758 10761 10762 10763						
12253	12254	12255	12256	12257	<i>Beauveria bassiana</i> 296 306 307					10764 10765 10769 10775 10776						
12258	12259	12260	12261	12262	Oklahoma					10777 10778 10779 10781 10782						
12263	12264	12265	12266	12267	<i>Beauveria bassiana</i> 10568 10569					10783 10784 10785 10786 11103						
12268	12269	12270	12271	12272	10579 10581 10584 10585 10587					11104 11118 11119 11120 11124						
12273	12274	12275	12276	12277	10612 10780 11599 11607 11608					11125 11126 11127 11128 11129						
12278	12279	12280	12281	12282	<i>Beauveria pseudobassiana</i> 2455					11130 11140 11141 11142 11143						
12283	12284	12285	12286	12287	<i>Beauveria</i> sp. 12793 12794 12795					11144 11199 11200 11201 11202						
12288	12289	12290	12291	12292	Oregon					11203 11204 11205 11207 11212						
12293	12294	12295	12296	12297	<i>Beauveria bassiana</i> 201 2054 5997					11213 11214 11215 11221 11224						
12298	12299	12300	12301	12302	7356 7357 7358 7359 7360 7361 7362					11237 11269 11280 11281 11288						
12303	12304	12305	12306	12307	7363 7364 7365 7366 7367 10576					11291 11321 11322 11508 11509						
12308	12309	12310	12311	12312	10611 10625 10632 11289 11366					11510 11511 11522 11535 11536						
12313	12314	12315	12316	12317	11367 11383 11385 11406 11407					11537 11538 11539 11544 11548						
12318	12319	12320	12321	12322	11445 11446 11533 11534 11583					11552 11554 11602 11888 11889						
12323	12324	12325	12326	12327	11967 12145 12156					11890 11892 12023 12024 12120						
12328	12329	12330	12331	12332	<i>Beauveria brongniartii</i> 10277 10278					12122						
12333	12334	12335	12336	12337	10279 10280					<i>Beauveria pseudobassiana</i> 10688						
12378	12379	12380	12381	12382	<i>Beauveria bassiana</i> sensu lato 13257					<i>Beauveria</i> sp. 11743 11744 13765						
12383	12384	12385	12386	12387	13258 13259					13766						
12388	12389	12390	12391	12392	<i>Beauveria bassiana</i> sensu stricto					Utah						
12393	12394	12395	12410	12411	13433 13444					<i>Beauveria amorpha</i> 10947						
12412	12413	12414	12415	12416	<i>Beauveria pseudobassiana</i> 10575					<i>Beauveria bassiana</i> 10505 10506						
12418	12419	12420	12421	12423	10594 10598 10618 10623 10628					10507 10509 10510 10515 10516						
12425	12426	12427	12428	12430	13260 13261 13262 13263					10550 10551 10552 10553 10554						
12431	12432	12444	12446	12447	<i>Beauveria</i> sp. 11387 13432					10555 10556 10557 10558 10559						
12528	12529	12530	12533	12534	Pennsylvania					10562 10563 10699 10770 10788						
<i>Beauveria bassiana</i> sensu stricto					<i>Beauveria bassiana</i> 2976 5493 5494					10789 10790 10806 10816 10817						
13443						12249 13815 13816 13817					10818 10819 10823 10824 10827					
<i>Beauveria</i> sp. 13770 13771 13772					<i>Beauveria pseudobassiana</i> 3528					10828 10829 10830 10832 10839						
13773	13774	13775	13776	13777	<i>Beauveria</i> sp. 13396 13400 13599					10850 10852 10854 10857 10859						
13778	13779	13780	13781	13782	13600 13601 13602 13603 13814					10861 10863 10865 10866 10867						
13783	13784	13785	13786	13787	Puerto Rico					10868 10872 10874 10885 10886						
13788	13789	13790	13791	13792	<i>Beauveria bassiana</i> 13402 13403					10887 10888 10889 10890 10891						
13793	13794	13795	13796	13797	13404 13405 13541					10892 10893 10894 10895 10896						
13798	13799	13800	13801	13802	<i>Beauveria</i> sp. 7079					10897 10898 10899 10900 10901						
13803	13804	13805	13806	13807	Rhode Island					10902 10903 10904 10905 10906						
13808	13809	13810	13811	13812	<i>Beauveria bassiana</i> 317 318					10907 10908 10909 10910 10911						
13819	13820	13821	13822	13823	South Carolina					10912 10913 10914 10915 10916						
13824	13825	13826	13827	13828	<i>Beauveria bassiana</i> 2200					10917 10918 10919 10920 10922						
13829	13830	13831	13832	13833	South Dakota					10923 10924 10925 10927 10928						
13834	13835	13836	13837	13838	<i>Beauveria bassiana</i> 2579 10490 10491					10929 10930 10931 10932 10933						
13839	13840	13841	13842	13843	10493 10494 10495 10501 10502					10934 10935 10936 10937 10938						
13844	13845	13846	13847	13848	10518 10522 10526 10532 10548					10939 10940 10941 10942 10943						
13849	13850	13851	13852	13853	10609 10638 10640 10654 10680					10944 10945 10946 10948 10949						
13854	13855	13856	13857	13858	10702 10787 10791 10792 10793					10950 10951 10952 10953 10954						
13859	13860	13861	13862	13863	10794 10795 10797 10798 10804					10955 10956 10957 10958 10959						
13864	13865	13866	13867	13868	10809 10810 10811 10821 10822					10960 10961 10962 10963 10964						
13869	13870	13871	13872	13873	10826 10831 10835 10837 10838					10965 10966 10967 10968 10969						
13874	13875	13876	13877	13878	11292 11293 11294 11296 11297					10970 10971 10972 10973 10974						
13879	13880	13881	13882	13883	11298 11313 11317 11328 11335					10975 10976 10977 10978 10979						
13884	13885	13886	13887	13888	11336 11338 11339 11340 11341					10980 10981 10982 10983 10984						

10985 10986 10988 10989 10990	<i>Beauveria pseudobassiana</i> 10608
10991 10992 10993 10994 10997	11053 11054
10998 10999 11000 11001 11002	<i>Beauveria</i> sp. 13818 13969
11003 11004 11005 11006 11007	
11008 11009 11010 11011 11012	<b>Uzbekistan</b>
11013 11014 11015 11016 11017	<i>Beauveria bassiana</i> 6055 6056 6057
11018 11020 11021 11049 11051	6058 6059 6060 6061 6062 6063 6064
11167 11172 11187 11206 11216	6072 6073 6074 6075 6076 6077 6078
11223 11225 11226 11230 11235	6083 6092 6093 6095 6096 6099 6109
11236 11242 11256 11257 11560	6111 6112 6113 6115
11563 11568 11577 11580 11587	
11590 11898 11903 11913 11915	<b>Vietnam</b>
11918 11956 11961 11963 11965	<i>Beauveria bassiana</i> 7592
11973 11989 12012 12140	<i>Beauveria bassiana</i> sensu stricto 751
<i>Beauveria pseudobassiana</i> 10499	
10646 10690 10799 10875 10987	
11050 11087	
<i>Beauveria</i> sp. 13441 13460 13461	
13471 13968 13974	
Vermont	<b>West Africa</b>
<i>Beauveria bassiana</i> 3543 5172 5173	Cape Verde Islands
5278 5279 5280 5492 5495 5496	<i>Beauveria bassiana</i> 4798 4799
9289 9290 9291 9370 9388 9389 9390	
9391 9392 9393 9394 9395 9396 9397	
9398 9399 9400 9401 9402 9403 9404	
9405 9406 9407 9408 9409 9410 9411	
9412 9413 9414 9415 9416 9417 9418	
9419 9420 9421 9422 9423 9424 9425	
9426 9427 9428 9429 9430 9431 9432	
9433 9434 9435 9436 9437 9438 9927	
10138 10140 10141 10142 10143	
10144 10145 10147 10148 10149	
11841 11844 11845 11846 11847	
<i>Beauveria bassiana</i> (?) 5182	
<i>Beauveria</i> sp. 5174 5186 5187 9335	
9336 9337 9338 9339 9340 9341 9342	
9343 9344	
Virginia	<b>Yugoslavia</b>
<i>Beauveria bassiana</i> 3527 5768 5769	<i>Beauveria bassiana</i> 505 506 507 510
13430	Croatia
<i>Beauveria pseudobassiana</i> 3405	<i>Beauveria bassiana</i> 509
Washington	Serbia
<i>Beauveria bassiana</i> 344 1079 3385	<i>Beauveria bassiana</i> 503 504
3386 7977 10566 10572 10633 10636	Voyvodina
10637 10642 10643 11290 11311	<i>Beauveria bassiana</i> 508
11315 11318 11374 11455 11518	
11531 11557 11582 11612 11957	
12101 12186	
<i>Beauveria pseudobassiana</i> 10630	
10635 10644	
<i>Beauveria</i> sp. 5078	
West Virginia	
<i>Beauveria bassiana</i> 7941	
Wisconsin	
<i>Beauveria bassiana</i> 793 8602	
<i>Beauveria pseudobassiana</i> 3216	
Wyoming	
<i>Beauveria bassiana</i> 10626 10675	
10768 10796 11022 11023 11024	
11052 11055 11304 11305 11306	
11319 11320 11323 11324 11325	
11356 11357 11358 11359 11603	
11604 11605 11609 11904 12114	
12116 12126 12127 12128 12129	
12134 12137 12193	