United States Department of Agriculture

BIOLOGICAL SHIPMENT RECORD -NON.QUARANTINE Form AD-943

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This form is for use in recording details concerning living material for biological control and pollination studies, and other bene-ficial uses (biological control agents, parasitized or diseased hosts, pollinators, competitors, an tagonists, and other material required for biological control studies) that are -

- 1. Released from U.S. non-quarantine cultures or recolonized from established populations in the U.S., or
- 2. Shipped interstate between U.S. non-quarantine locations in the 48 contiguous states.

Note: Use Form AD-94 1 for shipments (1) to U.S. locations outside the 48 contiguous states (Hawaii, Alaska, U.S. territories), (2) to all foreign locations (including Canada and Mexico), and (3) to U.S. quarantine facilities *for studies in quarantine*.

Information from this form will be computerized and published by the U.S. Department of Agriculture, Agricultural Research Service Insect Identification and Beneficial InsectIntroduction Institute, Beneficial Insect Introduction Laboratory (Biological Control Documentation Center), Beltsville, Maryland 20705. Full credit will be I'; iven to the individuals and organizations responsible for collection, shipment, culture and release of the organisms included in these records. Completion of the form is voluntary.

INSTRUCTIONS

.Use a separate AD-943 set for each beneficial species or each parasitized/diseased pest species shipped.

.Type or print firmly with a ball point pen to record on all copies.

.Fill out all blocks as completely as possible. Use "N/A" for those not applicable, "UNK" for unknown. Shaded blocks are for Documentation Center use only.

.Use Form AD-943A, "Supplemental Data" on reverse of this cover sheet for recording additional information; note "943A" in the applicable block on the AD-943.

.Codes for invertebrate stages, plant parts, and microbial organisms on reverse of form may be used.

.See reverse of form for Routing and Copy Distribution Information.

SECTION I

To be completed by Originator of Shipment or Release

Block Number

- 2. Beneficial shipped -If parasitized host material is shipped or released, give name and order: family of *beneficial species* in blocks A and B. For block C, give name and institutional affiliation of last known identifier of the cultured or field -collected material being shipped or released.
- 3. Shipper/Releaser File No. -Use acronym of facility and shipper/releaser's full initials in parentheses, and the year and the consecutive number of shipment/release by that shipper/releaser for that year (e.g., BIIL (RFWS). 83 -2).
- 4. Type of Organism -*Parasites, predators,* and *weed feeders* include nematodes. *Other* includes competitors (*e.g.*, dung beetles) and plants used for biological control. *Microbials* include cultures and isola tes of microbial (fungal, bacterial, viral, rickettsial, protozoan) pathogens, antagonists, competi- tors, etc.
- 5-8. Part A: From U.S. Field Collection -Complete if organism to be shipped or released has been field collected in the U.S. for recolonization else- where or for culture. In block 5, give original shipment/release file numbers, if known. If maintained in culture for more than one generation before release, also complete Part B.
- 9-13. Part B: From Laboratory Culture -Complete if organism is being shipped or released from a laboratory culture at a non-quarantine facility. In block 9, list file numbers from block 3 of *all* quarantine (AD-942) and/or non-quarantine (AD-943) forms for shipments which provided material for

the culture. If culture includes domestically collected material listed in Part A, check appropriate box. Complete blocks 10 and 11, especially if culture

is from other sources.

SECTION 11- SHIPMENT INFORMATION

Complete *only* in case of shipments; blocks 14-18 are to be completed by originator (shipper), blocks 19-24 (and Section III, if appropria te) by receiver. See codes for invertebrate stages, plant parts, and microbial organisms on reverse of form; *if parasitized hosts are shipped, give estimated* % *parasitized*.

If count is estimated, use **Est** box. For certain commercial and other facilities with numerous shipments annually who choose *not* to use this form for each shipment, please provide Documentation Center with one form for each species shipped during the year, with Section I completed, and in lieu of Section II, a list of recipients (names, with city and state in lieu of full addresses), with numbers shipped to each, and dates of shipments, or provide other records of shipments.

SECTION III -RELEASE/RECOLONIZATION

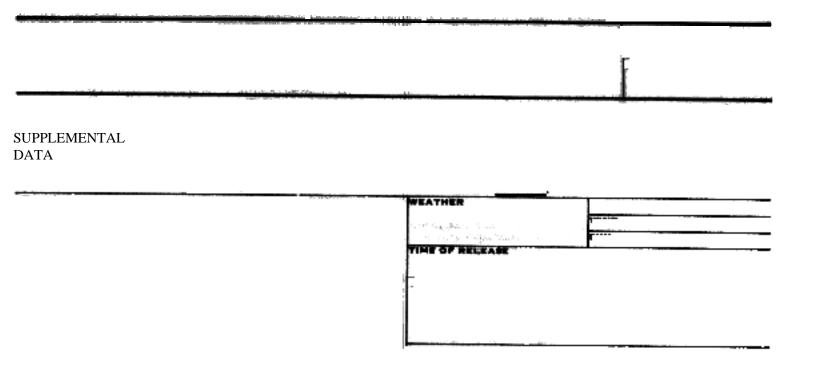
If more than 3 releases of material reported in Section I are made *during a single year* and *in a single state*, use Form AD-943A on reverse of this cover sheet to record details, and data can be summarized on Form AD-943 as follows:

.Alternative 1 -Multiple releases made at a single location/site (or within an area of 1 square mile) during the year *may* be reported under a *single* site column of a single form, *if* entries for blocks 29 and 30 (host information) remain the same for all releases. Give specific information on AD-943 (and on AD-943 A, Sections A & B as appropriate) on location in block 26, *total* number and stages released at that location/site (use Code; if parasitized hosts are released, give estimated % parasitized) in block 27, and give *inclusive* release dates (*e.g.*, 5/3 -7/16/83), in block 28. Record actual release numbers and dates on Form AD-943A, Section C,on back of this cover sheet. .Alternative 2 -Multiple releases made at several sites within 5 miles of a locauon (town or suburb or physical feature locatable on amap) *may* be re- ported under a *single* site column of a single form, *if* entries for blocks 29 and 30 (host information) remain the same for all releases. Give location and number of sites in block 26. Give *total* number and stages released and *inclusive* dates of release in blocks 27 and 28, in the manner noted for Alternative 1 above. Record actual release sites, numbers and dates on Form AD-943A, Section C, on reverse of cover sheet; photocopy and use additional sht:ets as needed.

.Alternative 3 -If material is released at numerous locations within a county or within a state during a single year and against the same target species (and host plant if applicable), blocks 26-28 *may* be used as a single block to record all releases within the county or state. Record the *total* number of individuals released, the stages released, the *inclusive* dates of release, and total number of release sites, for the county or state in which the releases were made. Record actual details of each release on Form AD-943A, Section C, on reverse of cover sheet; photocopy and use additional sheets as needed. Block Number

- 29. Target hosts/prey -Be as specific as possible here; i.e., give genus-species of host/prey against which this material is actually released. If more than two hosts/prey are present at the release site, or actual host/prey species present is unknown, give generic names (e.g., Heliothis spp., Lygus spp.) or if more appropriate, other general term (e.g., aphids, dung flies, etc.; Note: Recording of family names is most important in this case). Give further details in block 32 or on Form AD-943A on the reverse of this cover sheet.
- :11. Host/prey food -Use common name of plants or animals, or generic names of hosts/prey that lack common names. Also note if food is other than plant or animal (e.g., dung, decayed material, etc.). If more than one food source of target host/prey is present at release site, note here and give details in block 32 or on Form AD-943A on the reverse of this cover sheet.
- 31. Give name of actual releaser (and of supervisor, if appropriate, in parentheses). For multiple releases, give details on Form AD-943A on the reverse

of this cover sheet, as needed.



.Township, route no., Farmer's name,etc. .Map of release site.

NOTE: .Do not fold this sheet over form when writing-t:arbons will distort entries. .If additional copies are needed.,photot:opy and staple to form.

Section A **-RELEASE SITE** DETAILS, SITE NO.

OTHE~ COMMENTS EPORTED BY 80 DATE

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Types of release

Section B **-DET AtLSDFADqITI(;>NAL** RELEA~~ (Attachadditi~nal8heets as needed,) SITE 4 SITE 5

DFleld DGreenhouse Dcage DField DGreenhouse DCage Q61h~r:',;! DOtheri .;

B. Other-Genus, species C. Famil.ies

COMDITION OFCROP FI ELO

Food (plant/animal/other) of target ho\$t/prey at release

CONCITION OF RELEASE MATERIAL

OMBNO. 0518-0013 (EXP. 5/31/96)

Released by,""

IP~EDOMINANT TARGET I'!OST/PREY --STAGE PRESENT ITARGET HOST/PREY ABUNDANCE 'Shipper's File Number (From AD'943)

SITE	Nos, Released (aloges)	Dates of release St	Nos. Released (stages)	Dates of release SIT	Nos, Release (stages)
40					
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TEMP.

(Alternative 3)

ADDITIONAL HOST P~EY P~ESENT

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SITE 6
IDFie'd DGreenhouse Dc~~e QQther:

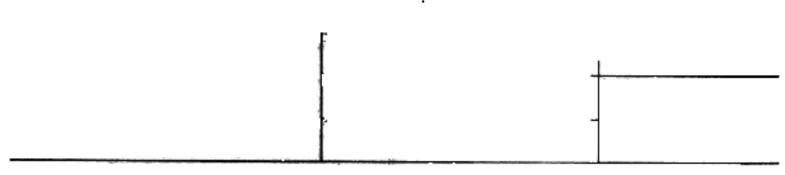
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<u>.</u>	The state of the s			ut i i i i i jiyate i ti uti u i i i i jiyate i ti		
REMARKS	100	C Transper State Coop 18 4	overlisees was overseen	C1 * 1500	A. Name	
BIOLOGICAL S	SHIPMENT RECORD - No	CONTRACTOR STREET	.			M NC (see files)
ROM (Name & address	SECTIO		ATERIAL RELEASED OR SHIP CIAL + A. Gen., sp., subsp., auth		er in pero	
	or ondepermentally	Lucher	CIAL TA. Gen., Sp., Subsp., auth	M	leed inatru	RELEASER FILE NO. ctions)
	rt A. From U.S. Field Collectic		ramily raid by (Name and affiliation I) k	nown)	PArasite PRedate Microbi xplain for OT):	r POllinator
OLLECTION LOCAL	id to field recolonisation or labo ITY(S)-State, County, nearest n sites, give State & County only	Town	9. SOURCE PILE NOS. AD-942, AD-943: Nos Part A Conner: 10. COUNTRIES/REGION/S			
	(m,d,y) 7. COLLECTORS (Name offiliations)	es and	11. ORIGINAL COLLECTORS and affiliations)		LAB GEN taser locat F ₁ - F ₁₀	□Fst *
A. Genus, species	Y AT COLLECTION	B. Stage/part attacked (see codes)	I3. LABORATORY HOST / PRE A. Genus, species			B. Stage/part attacked (see codes)
		SECTION II - RE	PORT OF SHIPMENT			
SHIPPED TO (Name &	address)		Est	e codes on reverse)	96, 0	DATE SHIPPED (m,d,y)
VIA:			17. SHIPPER'S REMARKS		I	PECIMENS RETAINED LY SHIPPER
DATE RECEIVED (m,d,y)	A. Rec'd, Alive 18	Emerged (Beneficials)	21. RECEIVER'S REMARKS			Yes nos.
SPECIMENS RETAINED BY RECEIVER No	Andrew State Oracle State	Lab culture/study (complete Blk. 24) Release intended No release intended	84 INTENDED LAB HOST/ PE	ev -Gen., sp.	N-N-N	
SECTION	III - REPORT OF RELEASE	/RECOLONIZATION	See instructions on cover sheet; a	use Form AD-943/		
Types of release	1 TO	enhouse	Field Greenhouse	Cage Field		Greenhouse Cage

LEsO

~LWF0004	
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_	
B. Other -Genus, species C. Families	
REMARKS (UseAD-943A-rormoredetails)	
Name and affiliation)	
gsu	
IIEstJ	
33. REPORTED BY	
A.Name B. Date (m.d,)I)	
m AD-943 (5/93)	
Part! DOCUMENTATION CENTER COpy	
BIOLOGICAL SHIPMENT RECORD - NON-QUARANTINE	. U D 6 D
SECTION I -REPORT OF MATERIAL RELEASED OR SHI ROM (Name & addreBBof <i>Shipper/ReleaBer)</i> 2. BENEFICIA NO.	PPED L .A. Gen., sp., subsp., auth. ~ 3. SHI~PER IR~LEASER ALE
	~ (see InBtructlons)



re:-Order7Fan,Ii'Y

iIIi

:4. TYPE OF BENEFICAL

i 0 PArasite 0 WEed feeder i 0 PRedator 0 POllinator

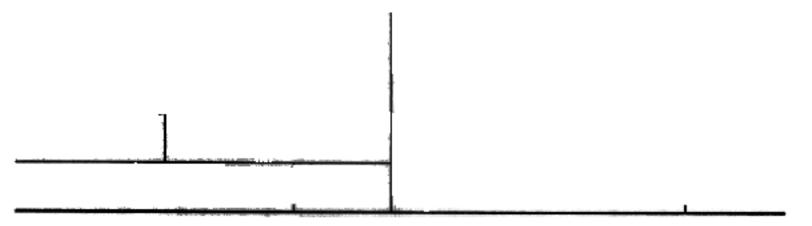
! 0 Microbial 0 OTher

! (Explain

MlorOT):

Part A. From U.S. Field Collection

(Collected for field to field recolonization or laboratory culture) :OLLECTION LOCALITY(SJ -State, County, nearest Town If more than 2 collection sites, give State & County only)



<u>IATES OF COLL£CTION (m,d,)') 7. COLLECTORS (Names and affiliations)</u>

1.5. FIELD HOSTS/PREY AT COLLECTION

\. Genus, species

And/Or Part B.From Laboratory Culture it.SOURCE FILE NOS.

0 AO.942. AO-943: Nos.

0 Part A 0 Other:

to. COUNTRIES REGION/STATE OF ORIGIN

IB. Stage/part

I attacked (see codes)

II. ORIGINAL COLLECTORS (ames 12. NO. LAB GENERATIONS t, ipper/: and affiliation,) relealer location) ! OF I -FIO OF51 +

OFII-F50

13. LABORATORY HOST/PREY B.Stage/part

A. Genus, species I attacked (,ee

code,)

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SECTION II -REPORT OF SHIPMENT

SHIPPED TO (Name & addre..) 15. NO. 80 STAG ES SHIPPED(use codes on rellerse) I 16. DATE SHI PPED (m. .y) If:st)

17. SHIPPER'S REMARKS

VIA:

<u>-I</u>

DATE RECEIVED (m,d,)'} zo. NO. 8c STAGES (use codes)I A. Rec'd. Alive B. Emerged (Beneficials) I LEs!J ~s!J
D.INTENDED USE Lab culture/study (complete B''~. 24)
Dlmmedlatl!release ~B.DRe'easeIntended I
(complete SectIII) .DNo release Intended
SPECIMENS RETAINED BY RECEIVER
DNa
<u>Dyes</u> .
nos
¬
21. RECEIVER'S REMARKS
24. INTENDED LAB HOST <u>I PREY</u> -Gen., sp.
16. SPECIMENS REYAINED
No
~!J
""
Types of release
SECTION III -REPORT OF RELEASE I RECOLONIZATION (See instructions on colle-;:;he;t; w;F;;-;:;;; AD-943A for modetail.)
c SITE 1 <u>~:il ~ ~</u> SITE 2 SITE 3 - 0 Field 0 Greenhouse 0 Ca9~''' 0 Field 0 Greenhouse 0 Greenhouse
0
OOther: I Other:
B. Other -Genus, species C. Families
${f IIf;sU}$
Food (plant/animal/other) of target host/prey at release
(Name and Released by <i>affiliation</i>)
REMARKS (UaeAD.943A formoredeta/ls)
0 Field 0 Other:

0 Cage	
i33. REPORTED BY A. Name B. Date(m,d,y)	
'm AD-943 (5/93)	
Part 2 SHIPPER/RELEASER COpy	
BIOLOGICAL SHIPMENT RECORD — NON-QUARANTINE	
\$ECTIONI- REPORT OF MATERIAL RELEASED OR SHI :ROM (Name & addreofShipper/Rele~er) 2. BENEFICIAL -A B. Order: Family	IPPED A. Gen., sp.,subSp., auth. ;G 3. SHIPPER {RELEASER F1LE NO. ~i~ (see instructions),'\C
Part A. From U.S. Field Collection (Collected for field to field recolonization or laboratory cult rf more than 2 collection sites, gille State & County only)	ture) :OLLECTION LOCALITY(S)- State, County, nearest Town
iATES OF COULECTION (m,d,)') 7. COULECTORS (Names affiliations)	and

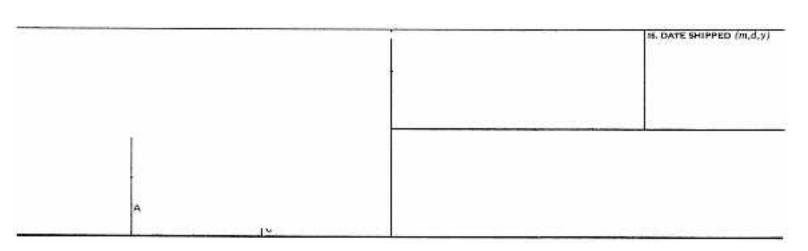
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lEstJ

~LWF0004 1.5. FIELD HOSTS/PREY AT COLLECTION IS.Stage/part \. Genus. species I attacked (see .codes) c.Oeterm I ned bY (Name and affl'liatlOnTt knouiit) --And/Or Part B. From Laboratory Culture 9.SOURCE FILE NOS. 0 AD-942. AD-943: Nos. 0 Part A 0 Other: 10. COUNTRIES/REGION/STATE OF ORIGIN II. ORIGINAL COLLECTORS (ames 12. NO. LAB GENERATIONS tshipper/ and affiliahons) releaser location) 0 F 1 -F 10 0 F 51 + OF 11- F 50 13. LA., RATORY HOST/PREY B.Stage/part A. Genus, species I attacked (see codes) J 14. TYPE OF BENEFICIAL 0 PArasite 0 WEed feeder 10 PRedator 0 POllinator 10 Microbial 0 OTher (Explain

MlorOT):

SECTION II -REPORT OF SHIPMENT



SHIPPED TO (Name & addreuJ

VIA:

:>ATE RECEIVED (mod,)') Izo. NO. 8c STAGES (use codes)

A. Rec'd. Alive B. Emerged (Beneficials)

[Est] ffis!J

D.INTENDED USE Lab culture/study (complete BI~. 24)

.Dlmmedlate release

B. DRelease Intended

(complete Sect. III) ~. DNa release Intended

SPECIMENS RETAINED BY RECEIVER

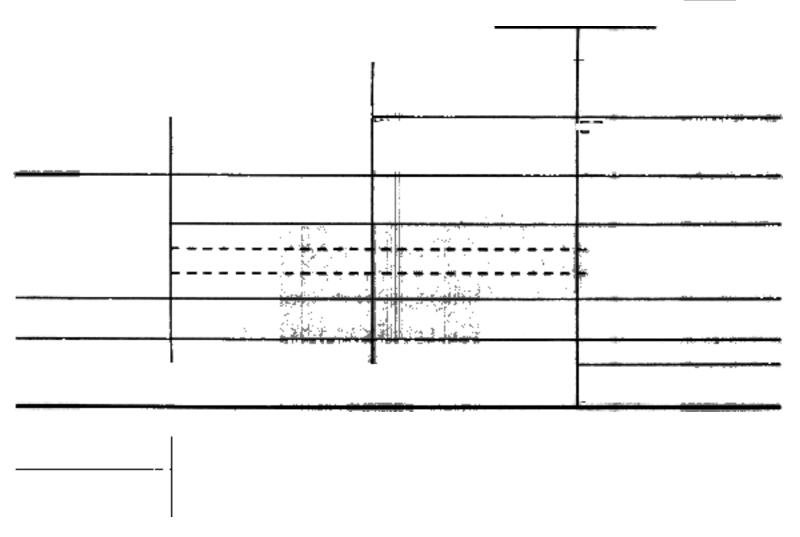
DNo

0 Yes nos.

SECTION 111- REPORT OF RELEASE/RECOLONIZATION (See in.tructionl on cover.heet; we Form AD-943A for more detaill)

SITE 1 SITE 2 SITE 3

0 Field 0 Greenhouse 0 Field 0 Greenhouse 0 Cage 0 Field 0 Greenhouse 0 Cage 0 Other: 0 Other:



Types of release

Locations (State. County.
nearest Town or physical
feature, map coordinates)
(Uae AD.943A for more detai,.;
aee inatructiona on colier aheet) I ~
Number & stages released [Esi)

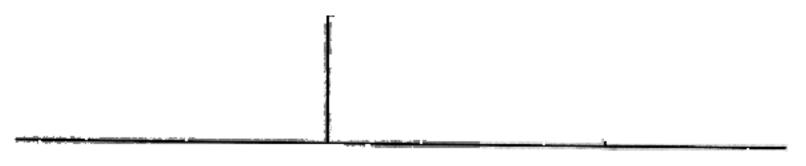
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(Uae codea; aee inatructiona for recording multiple IWIleaaes.)		
Dates of releases (m,d,y) (See ImtrucHom for recording multiple relea8e8.) Target hosts/prey at release A. Primary -Genus, species		
\ 15. NO. 8c STAGES SHIPPED(use codes on reverse) I [gs 1]		
17. SHIPPER'S REMARKS I		
B. Other -Genus, spec!es C. Families		
21. RECEIVER'S REMARKS		
Food (plant/animal/other) of target host/prey at release		
24. INTENDED LAB HOST I PREY -Gen., sp.		
(Name and i Released by affiliation) ,		
REMARKS (UseAD.943A for more de to/Is)		
18. SPECIMENS RETAINED BY SHIPPER ONO 0 Yes nos.		
LgstJ		
II Est .J		
33. REPORTED BY A.Name B. Date(m,d.Y)		
m AD-943 (5/93)		
Part :1 RECEIVER COpy		
	B.	M NC (see files

=ROM (Name & address of Shlpper/Relea&er) z. BENE FICIAL .A. Gen., sp., subsp., auth. ~

M'''::'; 3. SHIPPER I REL£ASER F1LE NO.

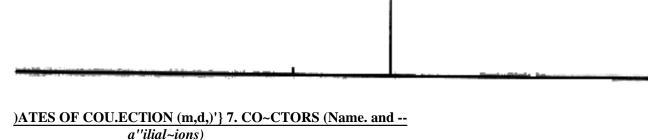
~; (see Instructions)

BIOLOGICAL SHIPMENT RE:CORD -NON-QUARANTINE



Part A. From U.S. Field Collection

(Collected for field to field recolonization or laboratory culture): OLLECTION LOCALITY(S)-State. County, nearest Town '[fmore than 2 collection sites. gitJe State & County only)



1.5. FIELD HOSTS/PREY AT COLLECTION IB. Stage/part

~. Genus. species I attacked (lee

code.)

'B:-Order-;:Famli"Y

SECTION II -REPORT OF SHIPMENT

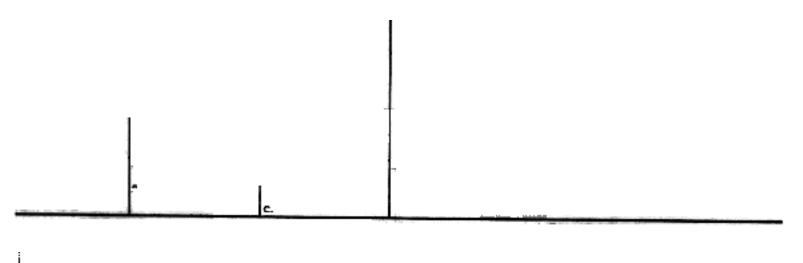
SHIPPED TO (Name I. GddNa) IS. NO. & STAG ES SHIPPED(~e code. on reverae) 16. DA= SHI PPED (m. .)1) [Es[]

4, TYPE OF BENEFICAL

0 PArasite 0 WEed feeder 1 0 PRedator 0 POllinator

'c.-DetermlnOd bY (Name andaffl'llatiOnTt known) --00OThMicrobial er (E%plaln





VIA:

OATE RECEIVED "'',Ii,)') ~20. NO. a. STAGES (use codes)

A. Rec'd. Alive

IB. Emerged (Beneficials) I [EsU fEst I I

D. INTENDED I; JSE Lab culture/study

(complete BIll. 24)

DlmmedlatE' release B. DRel~ase intended (complete Sect. Ill) DNo release Intended

And/Or Part ~. From Laboratory Culture

I.SOURCE FILE NOS.

0 AD-942, AD.943: Nos.

0 Part A 0 Other:

10. COUNTRIES/REGION/STATE OF ORIGIN

SPECIMENS RETAINED BY RECEIVER

DNo

DYes nos.

LEst]

Lg5!J

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33. REPORTEO BY

A.Name

B. Date (m,d.Y)

Part 4 SHIPPER (PENDING) COpy

-CODES -

NOTE: Use combination of Invertebrat8\$ and Plants codes for'weed feeders and otherphytophages shipped in or with plant host material (e.g., L in SH, A with FO).

INVERTEBRATES PLANTS

A- adults PL- whole plant ST -stems

M- male SO- seeds RT -roots

F- female SH- seed heads TU- tubers E-eggs SP- seed pods FO-foliage

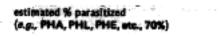
L- larvae (fpr holometabolar RS- rosette LV-leaf,1eaves N- nymphs (for heterometabola) FL -flowers

J- juveniles (for nematodes)

P- pupae, puparia

C- cocoons (can also be A in C, or P in C) MICROBIAL O~GANISMS -: not. including nema

, MI- cultures or Isolates of microbial pathogens, MU-mummles, cadavers antagonists, and competitors; fungi, bacteria, PH['] -parasitized host -give stage and viruses. rickettsia. Drotozoa



H- host

todes

D[] -disease suspects for pathogen diagnosis

(e.g., DPL, DFO, etc. -plant and plant parts; DHA. DHE. etc. -invertebrate stages)

-ROUTING AND COpy DISTRIBUTION -

IF NO SHIPMENT ISMADE-

- 1. Releaser complete Sections I (Part A and/or B) and III (seeinstructioncoversheet; use FormAD-943A on the reverse of, coversheetto record more details of releases.)
 - 2. Retain Shipper I Releaser Copy (Part 2).
 - 3. Shipper (Pending) Copy (Part 4) may be discarded.
 - 4. ForwardOocurnentation Center Copy (Part 1) and all copies of AO: '943A Form to:

Beneficial Insect Introduction Laboratory

USDA, Agricultural Research Service

BARC-East

Beltsville, Maryland 20705

5. If Form AO-943A is used -photocopy for your records or request photocopy from Documentation Center.

IF SHIPMENT IS MADE -

SHIPPER-

- 1. Complete blocks 1 .18 as appropriate.
- 2. Retain Shipper (Pending) Copy (Part4J.

- 3. Send remaining copies to Receiver with material.
- 4. When copies of complet~d fortn\$are returned by receiver-.
- -Retain Shipper I Releaser Copy (Part 2J\for your records, discard Shipper (Pending) Copy (Part 4J., -Forward Documentation Center Copy (Part 1J and all copies of AD-943A Form to:
 - ;, Beneficial Insect Introduction Laboratory ;.'~\\~~'''' USDA, Agricultural ResearchServ.ice BARC.East Beltsville, Maryland 20705
 - -If Form AD-943A is used, photocopy for your records and for Receiver if requested.

RECEIVER -

- 1. Complete blocks 19 -24, and if immediate release, complete Section III (see instruction cover sheet; use Fonn AD-943A on reverse of cover sheet to record more details of releases J.
 - 2. RetaiwReceiverCopy (Part 3).
 - 3. Return.rem~i~!.nic~copj~s ~nd al! copies of AD-943A Form used to Shipper.
 - 4.1f Form AD.;943A is used, photocopy for your records, or request copy from Shipper or Document~tion Center.
 - 5. If all or part of mat~rial received is cultured for later release, use separate AD-943 forms to record subsequent releases from these cultur~s.

Public reporting burden for this collection of inforMation is estilated to average 5 lirutes per response, including the tile for reviewing instructions, searching existing data sources, ~thering and maintaining the data needed, and completing and reviewing the collection of infoilation. Send coEents regarding this burden estimate or apy other aspect of this collectiq~? fipfor~tion, i~luding su~stio~s for reducing this . burden, to USDA, ClearanceOfficer,OIRI1, of Information and Re~latory Affairs, Office of HanagelRent and Budget, Wash~nglol),D'iC.; 20503..

Form AD-943 (Reverse)