

Anethum graveolens from Guatemala

March 7, 1994

Attachment 1

This scope of this assessment is Central America (7 countries). The pest risk assessment was conducted using PPQ's historical experience with this crop from C. A. countries, literature, quarantine pest database, and interceptions on this host from all Central American countries.

Host: Anethum graveolens DILL (Apiaceae)

Part: Above ground parts

Origin: El Salvador

Previous decisions:

Costa Rica

1985 - Permit entry with inspection at all ports.

Costa Rica

1988 - Permit entry with inspection at all ports.

ENTOMOLOGICAL REPORT FOR THE GEOGRAPHICAL AREA

Interceptions of arthropods from 1985 - to date:

LIPP's - see attached list

PINET - none

Arthropods:

I- QUARANTINE PESTS REPORTED WITH THE COMMODITY IN THE AREA.

Diabrotica nummularis Chrysomelidae
- REPORTED ON *Anethum* sp. (BALLOU, 1936)
- OCCURS IN COSTA RICA (BLACKWELDER, 1944)

II- POLYPHAGOUS PESTS IN THE AREA.

Liriomyza huidobrensis (BLANCHARD) Agromyzidae
- POLYPHAGOUS (SPENCER, 1973)
- OCCURS IN BELIZE, EL SALVADOR, GUATEMALA, HONDURAS, PANAMA, AND NICARAGUA (EPPO); COSTA RICA (SPENCER, 1983)

Cerotoma ruficornis (OLIVIER) Chrysomelidae
- POLYPHAGOUS (WOLCOTT, 1948)
- OCCURS IN EL SALVADOR, GUATEMALA, HONDURAS, AND NICARAGUA (BLACKWELDER, 1944); COSTA RICA AND PANAMA (MCGUIRE, 1967)

Coccus viridis (GREEN) Coccidae
- POLYPHAGOUS (MARTORELL, 1976)
- OCCURS IN COSTA RICA, EL SALVADOR, HONDURAS, NICARAGUA (MCGUIRE, 1967); GUATEMALA (CIE MAP)

Diabrotica speciosa (Germar) Chrysomelidae
- POLYPHAGOUS (INKTO)

- OCCURS IN COSTA RICA (PNKTO)

Diaprepes abbreviatus (LINNAEUS)

Curculionidae

- POLYPHAGOUS (FENNAH, 1947)

- OCCURS IN BELIZE, COSTA RICA, EL SALVADOR, GUATEMALA, HONDURAS, AND PANAMA (CALIF.DEPT.AGRI.)

Atta sexdens (LINNAEUS)

Formicidae

- POLYPHAGOUS (PNKTO)

- OCCURS IN BELIZE, EL SALVADOR, HONDURAS, NICARAGUA, AND PANAMA (CPPC); GUATEMALA (INKTO)

Copitarsia sp.

Noctuidae

- POLYPHAGOUS (PPQ LIST OF INTERCEPTION)

- OCCURS IN BELIZE, COSTA RICA, EL SALVADOR, GUATEMALA, AND PANAMA (PPQ-INTERCEPTIONS)

Thrips palmi KARNY

Thripidae

- POLYPHAGOUS (FAO, 1989)

- OCCURS IN GUATEMALA (EPPO)

Additional information:

The arthropods pests associated with this product are of the type PPQ typically inspects for. The 12 interceptions from Costa Rica reflect the kinds of arthropods we would anticipate finding on this product.

Recommendation:

Permit entry from El Salvador and any other Central American country subject to inspection.

References:

BALLOU C H, 1936

INSECTOS OBSERVADOS DURANTE EL ANO 1934. COSTA RICA DEPARTAMENTO DE AGRICULTURA. BOLETIN NO.20, JULIO 1936.

BLACKWELDER R E, 1944

CHECKLIST OF THE COLEOPTEROUS INSECTS OF MEXICO, C. AMERICA, WEST INDIES, & S. AMERICA. BUL.185, PT4, USNM.

CALIF.DEPT.AGRI.

CALIFORNIA DEPARTMENT OF AGRICULTURE DATABASE.

CIE MAP

DISTRIBUTION MAPS OF PESTS. COMMONWEALTH INSTITUTE OF ENTOMOLOGY.

CPPC

CARIBBEAN PLANT PROTECTION COMMISSION DATABASE.

EPPO

EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION, PARIS, FRANCE

FENNAH R G, 1947

THE INSECT PESTS OF FOOD CROPS IN THE LESSER ANTILLES. DEPT. OF AG.
FOR THE WINDWARD & LEEWARD ISLANDS.

INKTO

INSECTS NOT KNOWN TO OCCUR IN THE UNITED STATES. USDA.

MARTORELL L F, 1976

ANNOTATED FOOD PLANT CATALOG OF THE INSECTS OF PUERTO RICO.
AGRICULTURAL EXPERIMENT STATION, UNIV. OF PUERTO RICO.

MCGUIRE J U, 1967

SURVEY OF INSECT PESTS AND PLANT DISEASES OF SELECTED FOOD CROPS OF
MEXICO, C. AMERICA AND PANAMA. USDA.

PNKTO

PESTS NOT KNOWN TO OCCUR IN THE UNITED STATES. USDA.

SPENCER K A, 1973

AGROMYZIDAE (DIPTERA) OF ECONOMIC IMPORTANCE. DR. W. JUNK B.V., THE
HAGUE.

SPENCER K A, 1983

LEAF MINING AGROMYZIDAE IN COSTA RICA, REV. DE BIOL.
TROPICAL, 31(1):41-67.

WOLCOTT G N, 1948

THE INSECTS OF PUERTO RICO. JOURNAL OF AGRICULTURE OF THE UNIVERSITY
OF PUERTO RICO 32(2), APRIL 1948.

PATHOLOGY REPORT FOR THE GEOGRAPHICAL AREA

Interceptions of pathogens from 1985 - to date:

LIPP's - None

PINET - None

Pathogens:

No significant pathogens were noted in the available literature.

Recommendations:

Permit entry from El Salvador and any other Central American country
subject to inspection.

References consulted:

Anonymous. 1989. Indice de enfermedades de los cultivos agricolas de Costa Rica. Ministerio de Agricultura y Ganaderia, Dirección de Sanidad Vegetal. 112 p.

Farr, D. F., G. F. Bills, G. P. Chamuris and A. Y. Rossman.

1989. Fungi on plants and plant products in the United States. American

Phytopathological Society, St. Paul, Minnesota. 1252 p.

Ferrer, J. B. 1986. Catalogo de enfermedades de las plantas en Panama. 2nd Ed. Servicio de investigacion agricola, Inst. Nac. Agri., Min. Agri., Comer.e Industrias Divisa, Repub. Panama.

Holliday, P. 1980. Fungus disease of tropical crops. Cambridge University Press, Cambridge, U.K. 607 p.

Literature search of computer databases. 1992. Search of Agricola, CAB, Biological Abstracts, Cambridge Scientific and AGRIS (FAO) completed on March 3, 1994.

Mendez, F. A. D. 1986. Indice de enfermedades y nematodos mas importantes de los principales cultivos en Guatemala. Departament de Sanidad Vegetal. 27 p.

Quarantine plant pests database. 1992. Search completed on February 3, 1994.

Thurston, H. 1984. Tropical plant diseases. American Phytopathological Society, St. Paul, Minnesota. 208 p.

Weber, G. F. 1973. Bacterial and fungal Diseases of plants in the tropics. University of Florida Press, Gainesville. 673 p.

Watson, A. J. 1971. Foreign bacterial and fungus diseases of food, forage, and fiber crops: An annotated list. Agriculture Handbook No., 418. 111 p.

Wellman, F. L. 1977. Tropical American plant diseases. Scarecrow Press, Metuchen, New Jersey. 989 pp.

John Lightfield
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PINET

ANETHUM PEST DATA FOR CENTRAL AMERICA
(PANAMA)

no rows selected

LIPPS

Tue Feb 15

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ANETHUM PEST DATA FOR CENTRAL AMERICA

HOST	PEST	AS ORIGIN	TOTAL
ANETHUM GRAVEOLENS (LEAF)	APHIDIDAE, Species of	02 COSTA RICA	1
ANETHUM GRAVEOLENS (LEAF)	CHRYSMELIDAE, Species of	11 COSTA RICA	1
ANETHUM GRAVEOLENS (LEAF)	NOCTUIDAE, Species of	02 COSTA RICA	1
ANETHUM SP. (LEAF)	CERASPIS BRUNNEIPENNIS	02 COSTA RICA	1
ANETHUM SP. (LEAF)	COPITARSIA SP.	02 COSTA RICA	1
ANETHUM SP. (LEAF)	MEMBRACIDAE, Species of	11 COSTA RICA	1
ANETHUM SP. (LEAF)	NOCTUIDAE, Species of	02 COSTA RICA	1
ANETHUM SP. (STEM)	CICADILLIDAE, Species of	01 COSTA RICA	1
ANETHUM SP. (STEM)	DELOYALA SP.	02 COSTA RICA	1
ANETHUM SP. (STEM)	MIRIDAE, Species of	03 COSTA RICA	1
ANETHUM SP. (STEM)	NYSIUS SP.	03 COSTA RICA	1
ANETHUM SP.	NOCTUIDAE, Species of	03 COSTA RICA	1

12 rows selected.