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Animal and Plant Health Inspection Service



Asian Longhorned Beetle Cooperative Eradication Program

Hudson County, New Jersey

Environmental Assessment, March 2003

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I. Need for Proposal

A. Introduction

The U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), is proposing a program to quarantine and apply chemical treatments for the control and eradication of the Asian longhorned beetle, *Anoplophora glabripennis* (Motschulsky), in Hudson County, New Jersey. This program is necessary to enhance program operations to reduce the potential for damage from this major pest of trees. The Asian longhorned beetle bores into and kills a variety of tree species, including species of maple, elm, horse chestnut, birch, poplar, and willow. This nonnative pest has the potential to spread to other areas of the United States and cause extensive losses to ornamental and commercial tree species. The beetle was detected at several locations in the Chicago and New York City metropolitan areas and now at this most recent find in Jersey City, New Jersey. Based on an initial survey, it appears that the beetle was found within a 9-acre commercial and residential site just north of the Newport Parkway and east of Washington Boulevard. This exotic insect pest ultimately may be found in other areas as well.

Under APHIS' National Environmental Policy Act Implementing Procedures, 7 Code of Federal Regulations (CFR) Part 372, the proposed action is a class of action for which an environmental assessment (EA) is normally prepared. This EA considers the potential effects of the proposed action and its alternatives, including no action.

North America has abundant forest resources. Most logs and lumber imported into the United States have historically been limited to those from the forests of Canada. Increased trade has resulted in more frequent and greater quantities of logs and lumber (including solid wood packing materials (SWPM)) entering the United States from other parts of the world. Various plant pests, such as the Asian longhorned beetle from China, can occur on or in these unfinished wood products. Protection of the forest resources of the United States from damage by foreign pest species is part of the mission of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Exclusion of those pest species is the most effective method of preventing the losses associated with new pest infestations.

B. Purpose and Need

Increased trade and the resultant increased opportunities for invasion by alien agricultural pests have placed the United States and its agricultural

economies at substantially increased risk in recent years. In particular, a number of infestations and interceptions of exotic forest wood boring insects have been associated with SWPM from the People's Republic of China. Outbreaks of the Asian longhorned beetle (*Anoplophora glabripennis*), a destructive pest of maple and other hardwoods, were first detected in New York in 1996 and in Chicago, Illinois, in 1998. In addition, four genera of wood borers (*Anoplophora, Ceresium, Hesperophanes, and Monochamus*) have been intercepted in shipments from China that were delivered to warehouses in 11 other States.

APHIS has responsibility for taking actions to exclude, eradicate, and/or control plant pests, including Asian longhorned beetle, under the Plant Quarantine Act (7 United States Code (U.S.C.) 151–165, 167), the Organic Act of 1944 (7 U.S.C. 147a), and the Federal Plant Pest Act (7 U.S.C. 150dd). APHIS has been delegated the authority to administer these statutes and has promulgated Quarantines and Regulations (7 CFR 319) which regulate the importation of commodities and means of conveyance.

The current exclusion and eradication program consists of various regulations designed to require treatment of SWPM from China and eliminate the Asian longhorned beetle. This approach is currently effective at preventing new infestations from wood products imported from China. Other methods such as removal and destruction of infested host trees are expensive. Effective elimination of the beetle by removal of infested host plants depends upon early detection and timely identification of infestations in trees and cutting before the beetle can spread to nearby host plants. Small infestations that are detected early may be eradicated easily, but several small infestations in a localized area may become more difficult to eliminate. Therefore, in addition to cutting and removal of infested trees, the program also employs chemical methods to prevent infestation of healthy trees from adult beetles in the vicinity of presently infested areas. Field tests for several treatments have been conducted in China that indicate that the chemical treatments are suitable for cost-effective use in control of the beetle in the United States. There is also 3 years of supporting data from the United States suggesting chemical treatment is effective.

This site-specific EA has been prepared in compliance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321–4327 (NEPA)) and its implementing regulations. APHIS, in its programmatic Asian Longhorned Beetle EA, originally identified three alternatives. They are (1) no action; (2) injection application; and (3) injection application and bark treatment. Each of these alternatives are described in the programmatic EA for Asian longhorned beetle. In this site-specific EA, APHIS proposes, in response to this infestation of Asian longhorned

beetle in Jersey City, New Jersey, an emergency program of eradication utilizing an integrated pest management program of declaring and establishing quarantine boundaries in which there is limited movement of host material, tree removal, and chemical treatments.

II. Alternatives

APHIS considered carefully three alternatives in response to the need for better methods to eradicate and contain Asian longhorned beetle infestations: (1) no action, (2) quarantine action, and (3) integrated eradication program (the proposed action). Each is described briefly in this section and the potential impacts of each are considered in the following section.

A. No Action

Under the no action alternative, APHIS would continue the current programmatic control measures against Asian longhorned beetle. Some control measures could be taken by other Federal or non-Federal entities; those actions would not be under APHIS' control or funded by APHIS. In the absence of more effective measures to contain and control the Asian longhorned beetle, the gradual spread of the beetle in the vicinity of the New Jersey and New York area infestations would be expected to continue. Local business owners and area residents could attempt to control damages from beetle infestation by removing the infested trees from their properties. The lack of effective control measures to prevent the spread of Asian longhorned beetle from its initial site of introduction could lead to an increase in beetle population as well as its range of distribution. This would result in more continuing costs for detection and removal of infested host trees.

B. Quarantine Action

Under this alternative, APHIS would work cooperatively with the New Jersey Department of Agriculture (NJDA) to implement program control measures to eradicate the Asian longhorned beetle in Jersey City, New Jersey. The beetle was detected in a commercial and residential site located just north of the Newport Parkway and east of Washington Boulevard in Jersey City, New Jersey. Restrictions on movement and/or treatment, such as tree removal, would reduce the spread of Asian longhorned beetle to other areas. Current regulations require any infested trees discovered by the program to be cut and removed in a manner that eliminates all life stages of the beetle.

The NJDA has quarantined the affected 9-acre site and the surrounding 1½-mile area to prevent the beetle's spread. All infected trees and some host trees within the 1½-mile area will be cut and chipped on site into 5/8-inch diameter chips. This measure will ensure it is small enough to kill any beetle or beetle larvae. The quarantine will restrict the movement of firewood, green lumber, and other living, dead, cut or fallen material, including nursery stock, logs, stumps, roots and branches from potential host trees. These materials may be moved within the quarantine area but would be restricted from moving outside the area.

C. Integrated Eradication Program (Proposed Alternative)

Under this alternative, APHIS would use a combination of integrated pest management methods (including alternative B) with chemical injection treatments to prevent the further establishment and expansion of Asian longhorned beetle. As in established programs in New York and Illinois, the program would consist of work activities such as survey, tree removal, systemic injection treatments, and other regulatory actions in a quarantine area. The continuation of survey and quarantine activities in this program would depend upon the extent to which Asian longhorned beetle is effectively eliminated from potential host plants within the program area. Each of the program actions would be extended in length and geographical scope if evidence of new infestations are found in host trees within the quarantine area or outside the present quarantine boundaries.

III. Environmental Consequences

There are potential impacts from each of the alternatives being considered. The pest risk from Asian longhorned beetle is an important consideration for all alternatives. Potential program impacts arise from each of the chemical treatments, but most of the treatment impacts are not expected to be substantial. The potential affected areas are primarily urban parks and residential areas. Exposure to humans and potential effects to human health are primary considerations addressed for program actions in these locations.

A. No Action

Environmental impacts that could result from APHIS' implementation of the no action alternative relate primarily to pest risk effects. The potential establishment of Asian longhorned beetle would be associated with damage to and loss of valuable ornamental and commercial trees, spread of the beetle to other areas of the country with resultant damage to and loss of trees, loss of associated forest products (e.g., maple syrup), and private or uncoordinated use of pesticides to control the pest with associated adverse impacts to the environment (the physical environment, human environment, and nontarget species).

The wide distribution of host plants suggests the danger of spread across much of the country with increases in damage and losses commensurate with the spread. The damage and losses could result in reductions in private property value. The damage and losses to commercial trees would lower the value and production of timber and tree products such as maple syrup. The changes in the composition and age structure of forests resulting from no action could have long-term effects on the ecological relationships in the forested areas. There could be losses in recreational revenue to some areas from diminished amount of certain activities such as fall foliage visitations. There would be losses of valuable shade and ornamental trees in residential areas. The potential for future quarantine restrictions on the export of logs and nursery stock increases if no action is taken. The primary environmental consequences of this alternative are increased risk of pest spread and elevated environmental risks from uncoordinated application of pesticides to limit damage from the Asian longhorned beetle. The potential adverse impacts from selection of this alternative are considerably greater than those anticipated for the other alternatives.

B. Quarantine Action

The environmental consequences of this alternative relate primarily to the potential for the reduction of pest risk as compared to the no action alternative and to potential environmental effects from tree and other host plant removal methods. The environmental consequences of this alternative depend upon the ability of the quarantine and removal of susceptible host plants to reduce pest risk. Potential movement of adult beetles outside the quarantine area could result in expansion of the infested area with commensurate increase in environmental damage. Although the rate of the beetle spread would be much slower with the quarantine action alternative than with the no action, the potential for damage and losses would be similar as the infested area expanded. The lack of chemical treatments under this alternative would not protect susceptible host plants from any adult beetle that flies to trees adjacent to the quarantine area.

The ability of this quarantine and tree removal alternative to successfully eradicate Asian longhorned beetle is contingent upon adequate

knowledge of the pest and effective control measures to eliminate the pest and prevent access of the pest to susceptible host plants. The determination of locations for host plant removal are based upon known dispersal patterns and flight distances of the adult beetles. Although it is certain that removal of all host plants ensures eradication, it is less clear how far individual beetles, particularly mated female beetles, are likely to disperse to spread eggs to susceptible host plants. The presence of many susceptible host plants near the point of introduction in this program makes it likely that any adult female beetles would place all eggs on susceptible host plants close to this location. The establishment of a quarantine area and removal of all infested trees and some host plants within a 1½-mile radius of the point of introduction would be based upon site conditions and likely dispersion for the beetles. Future surveys and monitoring will be required to determine if expansion of the boundaries and removal of infested host plants are needed.

The removal of susceptible host plants may have adverse effects on local wildlife that depend upon this vegetation for food, cover, and related needs. This is particularly true for some invertebrates and other animals that have a limited foraging range. The primary issue to humans from loss of plants is aesthetic, but any potential removal of fruit trees could involve loss of fresh produce to those residents. The impacts on environmental quality from removal of trees are expected to be negligible. Although there could be some limited soil erosion at the site of tree removal, most locations have other forms of groundcover, and new plant growth on these sites is anticipated shortly after removal of susceptible species.

C. Integrated Eradication Program

The environmental consequences of this alternative relate primarily to the potential for pest risk reduction and to the potential environmental effects from host plant removal and injection treatment of host plants. The primary pest risk issues related to establishment of Asian longhorned beetle are described under the no action alternative and will not be repeated here. The primary environmental issue relates to susceptible plant host removal are described under the quarantine action alternative and will not be repeated here. The environmental consequences of chemical injection treatments are described in this section.

1. Injection Treatment

Effective operational implementation of the chemical injection applications by the program could help to protect susceptible host plants and assist in the efforts to contain and eradicate Asian longhorned beetle. This would alleviate concerns that the quarantine and tree removal

alternative may not remove all host plants infested by any beetles that dispersed from the point of introduction. Although injection treatments have not been demonstrated to kill all beetles in infested trees, their utility in chemical treatments to protect trees from ongoing infestations has been shown in Asian longhorned beetle programs in China, New York, and Illinois. This approach could prevent the damage to and loss of many valuable ornamental and commercial trees, loss of associated forest products (e.g., maple syrup and fruit), and the private or uncoordinated use of pesticides to control Asian longhorned beetle damage with associated adverse impacts to the environment (the physical environment, human environment, and nontarget species).

Effective injection applications provide an alternate means of protection for trees to the practice of removing and destroying potential host trees. The insecticide proposed for application against beetles is imidacloprid. Determination of the potential environmental impacts from this alternative requires analysis of toxicity, environmental fate, exposure, and associated risks from imidacloprid injections.

a. Toxicity

Imidacloprid is a systemic, chloro-nicotinyl insecticide chemically related to the tobacco toxin nicotine. The mode of toxic action is unique and works by interfering with the transmission of stimuli in the insect nervous system. Specifically, it causes a blockage in a type of neuronal pathway (nicotinergic) that is more abundant in insects than in warm blooded animals. Because of their molecular shape, size, and charge, nicotine and nicotinoids fit into receptor molecules in the nervous system that normally receive the molecule acetylcholine. This molecule carries nerve impulses from one nerve cell to another or from a nerve cell to the tissue that a nerve controls. Imidacloprid overstimulates the nerve, ultimately resulting in the insect's paralysis and eventual death. Since this nicotinergic site of action is more prevalent in insects than in higher organisms, the pesticide is selectively more toxic to insects.

The acute oral toxicity to mammals is moderate. The acute oral median lethal dose of imidacloprid to rats is 450 milligrams per kilogram (mg/kg) body weight. The acute dermal median lethal dose to rats of imidacloprid is greater than 5,000 mg/kg. Imidacloprid is not irritating to eyes or skin and is not a skin sensitizer. Signs and symptoms of intoxication include fatigue, twitching, cramps, and muscle weakness including the muscles for breathing. Chronic toxicity from imidacloprid is low. The systemic No Observed Effect Level (NOEL) for a 2-year feeding study of male rats was 5.7 mg/kg based on increased thyroid lesions observed at the next higher dose, 17.1 mg/kg. The reproductive NOEL determined from a three-generation reproduction study of rats

was 8 mg/kg based upon decreased pup body weight at 20 mg/kg. Imidacloprid may be weakly mutagenic. Test results were negative for mutagenicity in all but 2 of the 23 laboratory mutagenicity assays conducted. The positive assays were for genotoxicity in Chinese hamster ovary cells and changes in chromosomes in human lymphocytes. The U.S. Environmental Protection Agency (EPA) has classified imidacloprid in "Group E" in regards to carcinogenic potential. This indicates that the submitted studies provide evidence of noncarcinogenicity for humans.

Toxicity to other wildlife varies considerably. Imidacloprid is moderately to severely toxic to birds, but the repellant nature of imidacloprid to birds makes hazardous exposures unlikely. It is severely toxic to bees, but it is not considered a hazard to bees when used as a seed treatment. Imidacloprid is acutely toxic to adult fish at high concentrations and slightly toxic to daphnia.

b. Environmental Fate and Exposure

Imidacloprid residues from injection applications are not expected to persist in the environment. The vapor pressure of imidacloprid is low and little volatilization to the atmosphere is expected. Imidacloprid is moderately soluble in water, and its half-life in water exceeds 31 days at pH 5, 7, and 9. Soil injection applications and trunk injections are not expected to result in any transport of imidacloprid to groundwater or surface water. Imidacloprid adsorbs to soil particles and is expected to have low mobility in the dry soils within the treatment area. The half-life in soil varies from 48 to 190 days depending upon the organic matter, ground cover, and plant uptake. The systemic action of imidacloprid from injections would be expected to carry the residues to other locations within the plant. The insecticidal activity of imidacloprid within trees has been shown to remain effective for up to 1 year, but the distribution within treated trees is limited to those portions that are actively transporting fluids and nutrients. There is no systemic movement into heartwood. Imidacloprid from soil injection treatments could be taken up systemically by other nonhost plants. The program treatments using soil injection applications would only be at locations where the primary uptake of imidacloprid is by a susceptible host plant. Trunk injection would be made at locations where other plants could not compete for uptake of the imidacloprid residues. This approach precludes potential adverse effects to nontarget species and ensures that the applications protect only susceptible host plants of Asian longhorned beetle.

Adherence to the pesticide label and standard operating procedures ensures that exposures are minimal. This has been demonstrated by APHIS's Environmental Monitoring conducted during program operations in New York and Illinois. The injections would not be expected to routinely result in any exposure to humans except the program applicators. The required protective gear and safety precautions minimize applicator exposure. The applicators would ensure that the trunk injection devices are not disturbed during injection and the devices are removed from the drill holes when the application is complete to prevent exposure to the public. The only route for potential exposure of the public to imidacloprid is from the accidental scenario of a person digging in the treated soil following soil injection applications. Much of the compound would have adsorbed to soil particles or would have been taken up by the host plant and, thus, the actual exposure to imidacloprid would be minimal. The injection applications avoid exposure to most species of wildlife. The only species likely to be directly exposed by these injections are those nontarget invertebrates present in the treated soil or in the wood of the treated tree. Some insectivores and scavengers also could be exposed to residues during foraging activities in the soil below or in the bark of treated trees. The exposures of these species to imidacloprid are expected to be light. Insectivorous birds are repelled by imidacloprid residues and would avoid locations where exposure was possible.

c. Risk

The risk of adverse effects to environmental quality are minimal. The imidacloprid from soil injections and trunk injections is not expected to volatilize to the atmosphere, is not expected to be leached to groundwater, and is not expected to be carried to surface water except from heavy rainstorms. The soil and plant residues are expected to remain active for up to 1 year to protect the trees from infestation by Asian longhorned beetle. Injection treatments are directed to protect susceptible host plants and minimize potential uptake by other plants nearby.

The risks to human health are minimal. The required protective gear and safety precautions for applicators result in potential exposures much lower than any that could result in adverse effects. The anticipated margins of safety from the accidental exposure scenario where a person digs up the soil from the treated area under a tree are less than for the applicators, but no adverse effects are anticipated for those individuals either.

Mortality from exposure would be expected for some invertebrates. The populations of insects directly exposed to imidacloprid would be expected to decrease temporarily in the treatment area until the residues decrease and recolonization occurs from surrounding areas. This

recovery would be expected to occur more rapidly in the soil because the compound would be readily taken up by the tree roots and residues would not persist in the soil. The insects exposed to residues in the trees would require longer periods of time for recolonization. Although the prey for some insectivores would decrease in treated areas, the additional forage effort by these species is not expected to be increased greatly. Insect populations would remain unaffected in the untreated plants. The low exposures to birds and insectivores foraging in the soil and tree bark are not expected to result in any adverse effects to those species.

2. Other Issues

An effort was made by APHIS to determine what, if any, measures would be required for program compliance with the Endangered Species Act of 1973. The potential for exposure and any adverse effects was analyzed for those endangered and threatened species and their habitats within the proposed program area. Based upon the findings of that analysis, it was determined that there are no threatened and endangered species in the proposed program area, and the program would therefore have no effect on threatened and endangered species.

Consistent with Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations," APHIS considered the potential for disproportionately high and adverse human health or environmental effects on any minority populations and low-income populations. The environmental and human health effects from the proposed applications are minimal and are not expected to have disproportionate adverse effects to any minority or low-income populations.

Consistent with Executive Order 13045, "Protection of Children From Environmental Health Risks and Safety Risks," APHIS considered the potential for disproportionately high and adverse environmental health and safety risks to children. The program applications are made to trees and soil below trees in urban parks and residential areas where children would be expected to play and climb trees. The program applicators ensure that the general public is not in or around areas being treated, so no exposure will occur for trunk injection applications and the only possible exposure could occur from a child playing in the treated soil under a tree. This accidental exposure scenario was analyzed and it was determined that no adverse human health effects would result to the child. Therefore, it was determined that no disproportionate effects on children are anticipated as a consequence of implementing the preferred alternative.

IV. Agencies, Organizations, and Individuals Consulted

This environmental analysis was prepared and reviewed by APHIS. The addresses of participating APHIS units, cooperators, and consultants (as applicable) follow.

U.S. Department of Agriculture Animal and Plant Health Inspection Service Plant Protection and Quarantine Program Support 4700 River Road, Unit 134 Riverdale, MD 20737–1236

U.S. Department of Agriculture Animal and Plant Health Inspection Service Policy and Program Development Environmental Services 4700 River Road, Unit 149 Riverdale, MD 20737–1238

U.S. Department of Agriculture Animal and Plant Health Inspection Service Eastern Regional Office 920 Main Campus Drive, Suite 200 Raleigh, NC 27606–5202

U.S. Department of Agriculture Animal and Plant Health Inspection Service ALB National Program Coordinator 210 Varick Street Federal Building, Room 731 New York, NY 10014

U.S. Department of Interior U.S. Fish & Wildlife Service Northeast Region New Jersey Ecological Service Field Office Pleasantville, NJ 08232

Finding of No Significant Impact Asian Longhorned Beetle Cooperative Eradication Program Environmental Assessment March 2003

The U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), has prepared an environmental assessment (EA) for a proposed program to contain the Asian longhorned beetle. The proposed program is needed to improve containment and control of the Asian longhorned beetle at locations in the United States where it has been detected. Previous regulations designed to eradicate this pest have proven ineffective at eliminating the pest risk and containing new infestations. The EA, incorporated by reference in this document, is available from—

U.S. Department of Agriculture
Animal and Plant Health Inspection Service
Plant Protection and Quarantine
Surveillance and Emergency Programs
Planning and Coordination
4700 River Road, Unit 137
Riverdale, MD 20737–1229

The EA analyzed three alternatives: no action, quarantine action, and integrated eradication program. Each alternative was determined to have potential environmental consequences. Based on the information presented in the EA, I have selected the integrated eradication program as the preferred alternative because of the feasibility to implement an integrated management operational program that will deliver the capability to meet the pest risk reduction objectives and to provide the lower overall risk to human health and the natural environment than the current operational methods.

APHIS considered the potential environmental consequences of each alternative. Based on analysis of the environmental impacts, APHIS has determined that there would be no significant impact on the quality of the human environment from the implementation of the injection application alternative. APHIS' finding of no significant impact for this rule was based upon the application of standard operating procedures for the applications and their expected environmental consequences, as analyzed within the EA. APHIS will continue to confer, where appropriate, with the U.S. Fish and Wildlife Service to ensure that this program will have no adverse effects on endangered and threatened species.

In addition, I find that the environmental process undertaken for these tests is entirely consistent with the principles of environmental justice as expressed in Executive Order 12898 and that implementation of the control measures will not result in disproportionately high and adverse human health or environmental effects on any minority populations and low-income populations. Lastly, because I have not found evidence of significant environmental impacts associated with the proposed program, I further find that an environmental impact statement does not need to be prepared and that the program may proceed.

_/S/	03/19/2003	
Christine Markham	Date	
National Asian Longhorned Beetle Program Director		
Plant Protection and Quarantine		

Animal and Plant Health Inspection Service