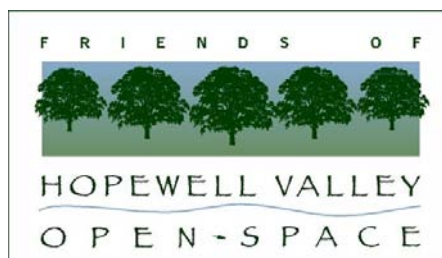


Central Jersey Invasive Species Strike Team 2009 Annual Project Report

March 2010

Prepared by
Friends of Hopewell Valley Open Space
Upper Raritan Watershed Association



We wish to thank the following organizations for their support!

Funders

National Fish & Wildlife Foundation - Pulling Together Initiative, The Bunbury Company, Merck & Co., Conservation Resources, Inc., Conserve Wildlife Foundation & NJDEP Division of Fish & Wildlife, The 1772 Foundation, Defenders of Wildlife - Living Lands Program, and Washington Crossing Audubon Society

In-Kind Contributors

Duke Farms Foundation and Hunterdon County Parks

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Introduction

The primary purpose of this report is to provide 2009 and cumulative project results along with 2010 planned activities and priorities for the Central Jersey Invasive Species Strike Team (CJISST). CJISST represents New Jersey's first Cooperative Invasive Species Management Area (CISMA) and its mission is to perform regional early detection & rapid response aimed at preventing future infestations of newly emerging invasive species.

Detailed search and eradication results are presented as Appendices A through C. A current list of CJISST partners is included as Appendix D.

Results

Search Results

Overall Summary: In 2009, CJISST performed initial searches on 124 sites (23,024 acres) and performed enhanced surveys on 34 sites (4,819 acres) that had been previously surveyed in 2008. Enhanced surveys include searching additional areas of a particular site and/or visiting the site at different times of year to more easily detect particular species.

A cumulative total of 196 sites (30,923 acres) have been surveyed for populations of emerging invasive species. Searches included walking along trails and/or directed walks through various habitats. We have recorded 317 miles traversed by staff, volunteers and partners (Note: This is not a complete total because GPS tracks were not recorded at 32 sites. Mileage figure includes initial and enhanced surveys). We approximate the total directly searched area as 984 acres by assuming accurate observations occur within 15 feet of either side of the searched path (Note: This figure is similarly an underestimate). Sites included a wide variety of private and public lands with 40 distinct ownerships across the project area (See Appendix B for site listing and www.cjisst.org for a map of searched site locations).

A total of 1,699 populations of 48 emerging species have been recorded - an additional 23 target species were not detected at any site (See Appendix A). For all mapped populations, the majority (1,129 or 67%) consisted of 10 or fewer individual plants. Approximately 22% (377 populations) consisted of 11-100 individuals and 11% (193 populations) consisted of greater than 100 individuals (some of these populations were very large, consisting of thousands of individuals).

Site Summary (Cumulative Data): Searched sites had a range of 0 to 191 detected populations of target species (average was 14). Fifty-seven of 196 searched sites contained zero emerging populations. An additional 107 sites had less than ten detected populations. There were 28 sites containing 2 to 100 populations and four sites had greater than 100 populations. The ten sites with the greatest number of detected populations included: Baldpate Mountain (191), Washington Crossing State Park (148), Duke Farms (108), Schiff Nature Preserve (79), Fairview Farm (78), Mercer County Park NW (65), Old Short Hills Park (61), Jockey Hollow (54), Woodfield Reservation (42), and Curlis Lake Woods (40).

Calculations were performed to estimate the relative density of emerging invasive species populations across surveyed sites. The relative density of emerging populations was calculated by dividing the total number of emerging populations by the number of acres searched for sites greater than 10 acres (smaller

sites were excluded from the analysis because few detected populations would artificially provide large values per acre).

Detected populations per searched acre ranged from 0.0 to 11.4 across 100 sites (96 sites were either less than 10 acres or did not have recorded GPS tracks). The ten most relatively infested sites included Woodfield Reservation (11.4), Fairview Farm (10.0), Buck Gardens (9.5), Rappaport Preserve (7.2), Jockey Hollow (6.5), Herronton Woods (4.6), Carter Preserve (3.1), Old Short Hills Park (4.3), Drake’s Corner Preserve (4.3), and a private easement in Hopewell Township (4.2).

The site information and analyses reported in this section can be used by CJISST partners to determine needs for enhanced surveys and/or eradication priorities by indicating sites with the greatest susceptibility to emerging invasive species. In some cases, these highly susceptible sites are likely to act as sources of emerging invasive species to surrounding areas and may be considered high priority sites for eradication efforts. A complete listing of searched sites and their associated data are provided in Appendix B.

Species Summary (Cumulative Data): Detections of target species ranged from 0 to 426 detected populations (average was 5.9). Target species distribution across all searched sites ranged from 0 to 22% (average was 3.1% of sites having at least one detected population of a particular target species). The number of target species falling within particular ranges of detected populations and frequency at which they occur at searched sites where they occur are summarized in Table 1. This information provides a snapshot of the distribution and abundance of the target species.

A large number of target species have not yet been detected (ca. 32%) and nearly 40% of species have less than 10 detected populations. There are 24% of target species with 10 to 100 total detected populations. There are a total of seven target species with greater than 100 detected populations and/or were found on greater than 10% of searched sites. These species include Japanese Wisteria, Japanese Aralia, Narrowleaf Bittercress, English Ivy, Oriental Photinia, Linden Viburnum and Siebold’s Viburnum. Some of these species are categorized as “Stage 3” and complete eradication is no longer considered possible (i.e., Linden Viburnum, Japanese Aralia), but containment of existing populations is still an important goal. [Note: Many English Ivy populations were detected as plantings or were creeping from plantings into natural areas. However, there were also numerous detections of small populations that have apparently established from seeds dispersed from nearby ornamental plantings.] Details for each target species are provided in Appendix A.

Table 1. Target Species Detection Summary

Detected Populations	# of Target Species		Detection Frequency	# of Target Species
No Detections	23		No Detections	23
< 10 Populations	26		< 5% of Sites	28
10 - 100 Populations	17		5-10 % of Sites	14
> 100 Populations	5		> 10% of Sites	6
Total	71		Total	71

The spatial distribution of each species can be found in a Google Maps format at www.cjisst.org. These maps depict the population size and location for each detected population. The visual distribution

analysis for each species is not easily quantifiable, but this information was important in determining 2010 eradication priorities.

Eradication Results

CJISST significantly increased its eradication effort in 2009. A total of 300 populations have been eradicated since project inception - 289 of these were completed in 2009 (see Appendix C for details). In addition, eradication efforts have been initiated on an additional 115 populations. These efforts included 24 different target species.

Target Species: The ten target species receiving the greatest eradication effort included (counting both initiated and completed eradications): Linden Viburnum (117), Siebold's Viburnum (77), Oriental Photinia (75), Narrowleaf Bittercress (28), Japanese Aralia (23), Callery Pear (19), Japanese Crabapple (17), Japanese Wisteria (14), Common Buckthorn (8), and Chinese Silvergrass / Five-leaf Akebia (6 each).

The percentage of detected populations subject to eradication efforts ranged from 0 - 100% among all target species (average was 17%). The ten target species with the highest percentage of populations treated include: Common Hop / Cutleaf Blackberry (100% each), Five-leaf Akebia / Water Chestnut (67% each), Siebold's Viburnum (64%), English Elm (50%), and Japanese Crabapple / Jetbead / Japanese Corktree (33% each).

Site-level Efforts: Eradication efforts have occurred at 22 sites. The greatest level of effort has been exerted at Baldpate Mountain, Washington Crossing State Park, Fairview Farm, and Duke Farms. These sites have numerous occurrences of high priority target species along with staff, partner, and volunteer resources to combat invasive species.

Outreach and Partnership Activities

FoHVOS and URWA provided 22 outreach and training events in 2009 (see list below). In total, there were over 560 attendees of CJISST events in 2009. Since inception, CJISST has provided 27 events with 610 attendees. In 2009, CJISST added 28 partners and the cumulative total is 47 partners including federal, state, county & municipal government, private conservation groups and a variety of private organizations (see Appendix D for a complete list).

- January 14, 2009: Partner and Volunteer Training Session, Fairview Farm, Bedminster Township, 26 attendees.
- February 16, 2009: Washington Crossing Audubon Society Grant Recipient Meeting, Pennington, 40 attendees
- March 4, 2009: URWA's Wake Up Call Breakfast, Limestone Café, Peapack, 20 attendees
- March 7, 2009: New Jersey Land Conservation Rally, New Brunswick, 20 attendees
- March 12, 2009: Hunterdon Hiking Club Presentation, Flemington, 24 attendees
- March 21, 2009: Native Plant Society Meeting, Mountainside, 75 attendees
- April 1, 2009: Meadows + More Presentation, Chester, 70 attendees
- April 29, 2009: Washington Crossing Audubon Society GPS Training, Hopewell, 2 attendees
- May 20, 2009: Plant Identification Workshop, Hillsborough, 86 attendees
- May 31, 2009: Invasive Plant Workshop, Princeton, 8 attendees
- June 6, 2009: National Trails Day Outreach Workshop, Hopewell, 50 attendees
- June 9, 2009: Strike Team Training Workshop, Chester, 22 attendees
- June 22, 2009: Washington Crossing Audubon Society Workshop, Hopewell, 8 attendees
- June 25, 2009: Strike Team Joint Partner Work Day, Hopewell, 9 attendees

- July 12, 2009: Native Plant Society Guided Tour, Bedminster, 7 attendees
- August 4, 2009: Plant Identification Hike, Hopewell, 10 attendees
- August 12, 2009: Mid-Atlantic Exotic Plant Pest Council Presentation, Johnstown, PA, 45 attendees
- September 17, 2009: Garden Club of America Presentation, Princeton, 8 attendees
- October 24, 2009: Invasive Plants in the Landscape, Califon, 2 attendees
- November 1, 2009: Girl Scout Program, Bedminster, 12 attendees
- November 17, 2009: Native Plant Society Plant Identification Training Workshop, Morristown, 20 attendees

Level of Effort

FoHVOS and URWA provided substantial effort toward CJISST. In 2009, FoHVOS and URWA staff and interns contributed 2,402 total project hours. Project hours contributed by various FoHVOS and URWA staff include: URWA Invasive Species Coordinator - Melissa Almendinger (739), FoHVOS Land Steward - Rachel Mackow (601), URWA Grant Specialist - Joy Seal-Ettel (259), FoHVOS Stewardship Director - Michael Van Clef (239), FoHVOS Intern (235), URWA GIS Director - Melissa Mitchell (151), URWA Intern (80), URWA Stewardship Program Manager - Lauren Theis (65 hours), URWA Finance Director - Sharon McCann (25), and FoHVOS Executive Director - Patricia Sziber (8).

An additional 3,601 hours have been contributed by FoHVOS volunteers (296), URWA volunteers (488), partner staff (2,127 hours) and partner volunteers (690 hours). The 2009 grand total of hours contributed to the project was 6,003. Since inception, the cumulative project grand total of hours for all CJISST participants is 7,586.

Planned Activities for 2010

Annual Review of CJISST Target List

An annual review of all spatial distribution and abundance information is utilized to determine an annually updated target species list (See www.cjisst.org). For example, species suspected of showing invasive potential but have few or no wild populations may be downgraded to the CJISST “Watch List” or considered “non-invasive”. The Watch List is a new addition to CJISST and currently consists of three species (Kousa Dogwood, Golden Raintree, and Weeping Cherry) that will be informally tracked to determine whether they should be added to the target list in coming years. Currently, there are no species from the 2009 target list that have been downgraded to “Watch”.

The “non-invasive” designation is provided to species regardless of current abundance and is based upon the species perceived lack of significant risk to natural systems. For example, Moneywort was de-listed for 2010 because it does not appear to show invasive potential - the species is widely distributed, but does not seem to have the ability to form dense monocultures that dramatically suppress native species.

The 2010 target list also includes new species detected within the state or region that may not have been detected by CJISST, but are considered to pose a significant potential threat to natural systems. For example, Parrot Feather was detected in a southern county of New Jersey - it is reasonable to assume that this species may become established in the CJISST project area although it has not yet been detected.

The 2010 target list also reflects practical difficulties with proper identification of particular species due to closely related native sub-species and/or uncertain taxonomy. A total of six species were added to this

category and will not appear on the 2010 target list. They include two Privet species, one Bush Honeysuckle species, Japanese Crabapple, Common Hop, and Stinging Nettle.

Species that have become too abundant may be removed from the CJISST target list because they are considered “Widespread” invasives. These species are likely to be subjects of site-level control efforts by individual land stewards, but they are not considered viable targets for regional eradication or containment by CJISST. It is possible that particular species currently categorized as “Stage 3” will ultimately be categorized as “Widespread” and therefore be removed from the CJISST target list.

Species-based Eradication Priorities

The 2009 and cumulative survey data (spatial and tabular) were analyzed to prioritize 2010 eradication efforts. The overarching theme of eradication efforts is to have the greatest protective impact per unit effort, which requires careful prioritization. Unfortunately, it must be recognized that some species can no longer be practically eradicated from New Jersey (e.g., Stage 3 target species such as Linden Viburnum) and containment is the only feasible option. Although all data collected from searches cannot be acted upon through complete eradication, the entirety of the data collected informs all eradication priorities.

A total of 48 target species with 1,699 detected populations were recorded in 2008 and 2009. A total of 300 completed eradications have been recorded by CJISST and the goal for 2010 is an additional 500 completed eradications (See Appendix C for details). These eradications will focus on high priority species (e.g., large, shade tolerant shrubs, aquatic species that may spread rapidly, etc.).

There are 19 species where eradications will not be attempted in 2010. This group includes de-listed species or species likely to be de-listed in the near future (See discussion above). It also includes species that appear to be spreading minimally from ornamental plantings, but are of significant future concern (additional outreach to homeowners will be the primary strategy for these species in 2010).

There are 21 species with the goal of eradicating all detected populations in 2010. Two of these species - Callery Pear and Japanese Wisteria - are commonly planted ornamentals and outreach will be a continuing strategy. It is possible that this goal will not be achieved for all larger populations, but significant effort will be exerted on species in this group.

The remaining 8 species will have more modest goals of eliminating smaller populations. This primarily involves “Stage 3” species where CJISST’s broad goal is minimizing additional spread to uninfested areas (e.g., Linden Viburnum, Japanese Aralia). Many of these species are used as ornamentals (e.g., Butterfly Bush, Chinese Silvergrass) and outreach to private landowners will be a continuing strategy.

Site-based Eradication Priorities

The primary initiative of CJISST is species-based eradications, regardless of the quality of the site. However, there are a number of sites that appear to have very high susceptibility to emerging invasive species. These sites act as “sources” of propagules that may spread to neighboring properties and the CJISST project area at large (i.e., “sinks”). The ten sites with the greatest number of detected populations were highlighted above (See Site Summary on page 1). For 2010, CJISST should support continuing eradication efforts at those “source” sites.

Additional Searching, Training, Outreach and Partner Building

CJISST will continue to search for target species throughout the project area. The 2010 search goal is an additional 13,000 acres, which includes new sites and enhanced surveys at previously searched sites. Searching will continue to be conducted on any private or public land within the project area, but priority will be given to sites with high conservation value (e.g., known to contain rare species) and/or high levels of susceptibility (e.g., located adjacent to sites with previously detected populations of high priority target species).

FoHVOS and URWA plan continued training, outreach and partner building efforts in 2010. Goals for these activities include 32 events including field identification and species control training days, classroom training sessions, displays or presentations at trade shows or industry conferences, and presentations to the general public. Additional goals include recruitment of 50 additional project partners (includes public & private entities and participating private landowners), recruitment of 80 additional volunteers, shared data management / analyses, shared eradication efforts, production of the 2011 CJISST annual report, and supplementing website content (www.cjisst.org). We hope that these combined efforts spur larger statewide efforts.

NFWF Interns and Contracted Clearing

In January 2010, CJISST was notified of our successful grant award from the National Fish & Wildlife Foundation - Pulling Together Initiative. This funding will allow CJISST to hire four interns that can perform searching or eradication efforts throughout the project area. The use of the interns requires a 1:4 partner match per intern (i.e., each intern hour requires the partner to contribute 1/4 hour to the CJISST project). Partner match can be supplied through any CJISST activity (e.g., outreach, searching, and eradication). Alternatively, partners may provide cash match (using non-Federal sources only) at the rate of \$8.00 per intern hour. Interested current and potential project partners should contact CJISST with any questions regarding matching requirements. Our overall goal is to reach 450 partner hours (or \$13,500 equivalent).

In addition, the grant provides \$7,600 to hire contractors that will clear large infestations that cannot feasibly be cleared by hand. (Large infestations are considered to be greater than 0.25 acres.) With the success of additional grant applications, further funds will be applied to contracted clearings in 2010. CJISST does not require any match for contracted clearings on partner properties, but staff/partner/volunteer match is always appreciated to help us continue to match a variety of CJISST grants.

Any partner interested in utilizing CJISST interns or contracted control services should contact FoHVOS or URWA directly by sending a completed "Intern & Contractor Request Form", found at www.cjisst.org.

Appendix A.
2009 CJSST Annual Report
Cumulative Species Searching Summary
Central Jersey Invasive Species Strike Team

Scientific Name	Common Name	Species Code	Distribution Code	Total Number of Sites	% of Sites Detected	Total Number of Detected Populations	Number of Populations by Size			
							1	2-10	11-100	> 100
<i>Acer ginnala</i>	Amur maple	ACGI	Stage 0	1	0.5	1	0	0	1	0
<i>Acer palmatum</i>	Japanese maple	ACPA	Stage 0	7	3.6	8	4	0	3	1
<i>Acer pseudoplatanus</i>	sycamore maple	ACPS	Stage 0	2	1.0	9	1	6	2	0
<i>Actinidia arguta</i>	hardy kiwi	ACAR	Stage 0	1	0.5	2	0	0	0	2
<i>Akebia quinata</i>	chocolate vine	AKQU	Stage 2	4	2.1	9	0	3	3	3
<i>Alnus glutinosa</i>	European alder	ALGL	Stage 0	1	0.5	1	0	0	1	0
<i>Amorpha fruticosa</i>	desert false indigo	AMFR	Stage 2	2	1.0	4	1	1	2	0
<i>Ampelopsis brevipedunculata</i>	Porcelainberry	AMBR	Stage 2	12	6.3	35	3	23	6	3
<i>Anthriscus sylvestris</i>	wild chervil	ANSY	Stage 2	0	0.0	0	0	0	0	0
<i>Aralia elata</i>	Japanese angelica tree	AREL	Stage 3	23	12.0	101	12	35	49	5
<i>Artemisia stelleriana</i>	oldwoman	ARST	Stage 0	0	0.0	0	0	0	0	0
<i>Berberis vulgaris</i>	common barberry	BEVU	Stage 2	0	0.0	0	0	0	0	0
<i>Buddleja davidii</i>	orange eye butterflybush	BUDA	Stage 0	13	6.8	14	6	6	2	0
<i>Cardamine impatiens</i>	narrowleaf bittercress	CAIM	Stage 3	23	12.0	123	8	43	50	22
<i>Clematis terniflora</i>	Japanese clematis	CLTE	Stage 3	9	4.7	16	2	9	2	3
<i>Conium maculatum</i>	poison hemlock	COMA	Stage 1	0	0.0	0	0	0	0	0
<i>Cynanchum louiseae</i>	black swallowwort	CYLO	Stage 2	3	1.6	4	0	4	0	0
<i>Dioscorea oppositifolia</i>	Chinese yam	DIOP	Stage 0	0	0.0	0	0	0	0	0
<i>Dipsacus laciniatus</i>	cutleaf teasel	DILA	Stage 1	1	0.5	1	0	0	0	1
<i>Elaeagnus angustifolia</i>	Russian olive	ELAN	Stage 0	0	0.0	0	0	0	0	0
<i>Eleutherococcus sieboldianus</i>	fiveleaf aralia	ELSI	Stage 0	4	2.1	6	2	1	2	1
<i>Eragrostis curvula</i>	weeping lovegrass	ERCU	Stage 2	0	0.0	0	0	0	0	0
<i>Euonymus europaea</i>	European spindle tree	EUEU	Stage 1	2	1.0	2	1	0	0	1
<i>Euonymus fortunei</i>	winter creeper	EUFO	Stage 1	13	6.8	23	4	8	10	1
<i>Frangula alnus</i>	glossy buckthorn	FRAL	Stage 2	0	0.0	0	0	0	0	0
<i>Hedera helix</i>	English ivy	HEHE	Stage 1	28	14.6	46	4	29	8	5

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Scientific Name	Common Name	Species Code	Distribution Code	Total Number of Sites	% of Sites Detected	Total Number of Detected Populations	Number of Populations by Size			
							1	2-10	11-100	> 100
<i>Heracleum mantegazzianum</i>	giant hogweed	HEMA	Stage 0	1	0.5	2	0	2	0	0
<i>Humulus japonicus</i>	Japanese hop	HUJA	Stage 3	13	6.8	42	1	8	10	23
<i>Humulus lupulus var. lupulus</i>	common hop	HULU	Stage 2	1	0.5	1	1	0	0	0
<i>Iris pseudacorus</i>	paleyellow iris	IRPS	Stage 2	3	1.6	3	2	1	0	0
<i>Lespedeza cuneata</i>	sericea lespedeza	LECU	Stage 3	10	5.2	27	3	6	4	14
<i>Ligustrum ovalifolium</i>	California privet	LIOV	Stage 0	1	0.5	1	0	1	0	0
<i>Lonicera caprifolium</i>	Italian honeysuckle	LOCA	Stage 0	0	0.0	0	0	0	0	0
<i>Lonicera fragrantissima</i>	fragrant honeysuckle	LOFR	Stage 0	1	0.5	1	0	1	0	0
<i>Lonicera tatarica</i>	Tatarian honeysuckle	LOTA	Stage 2	0	0.0	0	0	0	0	0
<i>Ludwigia peploides</i>	floating primrose-willow	LUPE	Stage 0	0	0.0	0	0	0	0	0
<i>Lysimachia nummularia</i>	creeping jenny	LYNU	Stage 3	15	7.8	30	0	5	16	9
<i>Malus toringo</i>	Japanese crabapple	MATO	Stage 2	8	4.2	51	27	8	4	12
<i>Marsilea quadrifolia</i>	European waterclover	MAQU	Stage 0	0	0.0	0	0	0	0	0
<i>Miscanthus sinensis</i>	Chinese silvergrass	MISI	Stage 2	19	9.9	54	22	22	10	0
<i>Myriophyllum aquaticum</i>	Parrot feather	MYAQ	Stage 0	0	0.0	0	0	0	0	0
<i>Pachysandra terminalis</i>	Japanese pachysandra	PATE	Stage 1	10	5.2	27	0	8	5	14
<i>Parthenocissus tricuspidata</i>	Boston ivy	PATR	Stage 1	3	1.6	4	0	2	1	1
<i>Perilla frutescens</i>	beefsteakplant	PEFR	Stage 1	3	1.6	4	0	1	3	0
<i>Phalaris canariensis</i>	annual canarygrass	PHCA	Stage 1	0	0.0	0	0	0	0	0
<i>Phellodendron amurense</i>	Amur corktree	PHJA	Stage 0	4	2.1	4	0	4	0	0
<i>Photinia villosa</i>	Oriental photinia	PHVI	Stage 2	28	14.6	204	83	74	40	7
<i>Polygonum orientale</i>	kiss me over the garden gate	POOR	Stage 1	2	1.0	2	0	1	1	0
<i>Polygonum perfoliatum</i>	Mile-a-Minute	POPE	Stage 3	15	7.8	67	6	10	20	31
<i>Polygonum sachalinense</i>	giant knotweed	POSA	Stage 1	0	0.0	0	0	0	0	0
<i>Pueraria montana var. lobata</i>	kudzu	PUMO	Stage 0	0	0.0	0	0	0	0	0
<i>Pyrus calleryana</i>	Callery pear	PYCA	Stage 2	19	9.9	59	36	15	2	6

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 Central Jersey Invasive Species Strike Team

Scientific Name	Common Name	Species Code	Distribution Code	Total Number of Sites	% of Sites Detected	Total Number of Detected Populations	Number of Populations by Size			
							1	2-10	11-100	> 100
<i>Rhamnus cathartica</i>	common buckthorn	RHCA	Stage 2	10	5.2	49	19	21	4	5
<i>Rhodotypos scandens</i>	jetbead	RHSC	Stage 2	11	5.7	15	0	8	5	2
<i>Ribes rubrum</i>	garden red current	RIRU	Stage 1	0	0.0	0	0	0	0	0
<i>Robinia hispida var. hispida</i>	bristly locust	ROHI	Stage 1	0	0.0	0	0	0	0	0
<i>Rorippa nasturtium-aquaticum</i>	white watercress	RONA	Stage 3	6	3.1	20	3	3	12	2
<i>Rosa canina</i>	dog rose	ROCA	Stage 1	1	0.5	1	1	0	0	0
<i>Rosa rugosa</i>	rugosa rose	RORU	Stage 2	0	0.0	0	0	0	0	0
<i>Rubus armeniacus</i>	Himalayan blackberry	RUDI	Stage 0	0	0.0	0	0	0	0	0
<i>Rubus laciniatus</i>	cutleaf blackberry	RULA	Stage 2	1	0.5	1	0	1	0	0
<i>Trapa natans</i>	water chestnut	TRNA	Stage 2	3	1.6	3	1	0	0	2
<i>Ulmus parvifolia</i>	Chinese elm	ULPA	Stage 0	0	0.0	0	0	0	0	0
<i>Ulmus procera</i>	English elm	ULPR	Stage 0	2	1.0	2	0	1	1	0
<i>Ulmus pumila</i>	Siberian elm	ULPU	Stage 1	0	0.0	0	0	0	0	0
<i>Viburnum dilatatum</i>	linden viburnum	VIDI	Stage 3	42	21.9	426	170	182	64	10
<i>Viburnum lantana</i>	wayfaring tree	VILA	Stage 0	0	0.0	0	0	0	0	0
<i>Viburnum plicatum</i>	Japanese snowball viburnum	VIPL	Stage 0	2	1.0	3	2	1	0	0
<i>Viburnum setigerum</i>	tea viburnum	WISE	Stage 0	1	0.5	4	2	2	0	0
<i>Viburnum sieboldii</i>	Siebolds viburnum	VISI	Stage 2	16	8.3	120	41	72	7	0
<i>Wisteria floribunda</i>	Japanese wisteria	WIFL	Stage 2	22	11.5	67	6	27	27	7
Totals	N/A	N/A	N/A	422	N/A	1699	474	655	377	193

Appendix B.
2009 CJISST Annual Report
Cumulative Site Searching Summary
Central Jersey Invasive Species Strike Team

Site Name	Site Code	Manager	Site Type	Property Size (acres)	Initial Survey Year	Initial Submission	Total Number of Species Detected	Total Number Detected Populations	Number of Populations by Size			
									1	2-10	11-100	>100
10 Old Short Hills Road - Old Library	OSHR	Millburn Township	Municipal Facility	0.2	2009	Partner	2	2	0	1	1	0
10 x 265 piece of land - North side of Parsonage Hill Road (along Lot lines 1,3,4-Block 2404)	PARO	Millburn Township	Municipal Facility	0.1	2009	Partner	0	0	0	0	0	0
190 Essex Street to Millburn Avenue	M190	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
256 Essex Street (Parking Area)	E256	Millburn Township	Municipal Facility	0.1	2009	Partner	0	0	0	0	0	0
960 Ridgewood Road	R960	Millburn Township	Municipal Facility	0.1	2009	Partner	0	0	0	0	0	0
Albahary	ALBA	FoHVOS	Preserve/Park	7.1	2008	FoHVOS	4	22	4	2	14	2
Allen and Knight Tracts	ALKN	Chester Township	Preserve/Park	211.0	2009	Partner	0	0	0	0	0	0
Alliger Park	ALLI	Hopewell Township	Preserve/Park	166.5	2008	FoHVOS	1	1	0	1	0	0
Arena	AREN	FoHVOS	Preserve/Park	28.1	2008	FoHVOS	2	2	1	1	0	0
Arno	ARNO	FoHVOS	Preserve/Park	5.7	2008	FoHVOS	0	0	0	0	0	0
Baldpate Mountain-Ted Stiles Preserve	BALD	FoHVOS	Preserve/Park	1349.9	2008	FoHVOS	14	191	73	66	37	15
Baldwin Lake WMA	BALE	NJDEP - Fish & Wildlife	Preserve/Park	47.2	2008	FoHVOS	5	7	3	2	0	2
Bamboo Brook Preserve	BAMB	Morris County Parks	Preserve/Park	100.0	2009	URWA	7	22	5	8	7	2
Beidler	BEID	D & R Greenway Land Trust	Preserve/Park	12.9	2008	FoHVOS	2	2	0	1	1	0
Black River Park	BRPA	Chester Township	Preserve/Park	44.0	2009	Partner	0	0	0	0	0	0
Black River Wildlife Management Area	BRWM	NJDEP - Fish & Wildlife	Preserve/Park	268.0	2009	Partner	0	0	0	0	0	0
Brookside Drive (rear)	BRDR	Millburn Township	Municipal Facility	0.0	2009	Partner	0	0	0	0	0	0
Buck Gardens	BUCK	Somerset County Park Commission	Preserve/Park	33.0	2009	URWA	2	18	0	12	0	6
Bulls Island-Delaware and Raritan Canal SP	BULL	NJDEP - Parks and Forestry	Preserve/Park	78.0	2009	FoHVOS	6	19	1	4	6	8
Burnett Brook Natural Area	BUBR	Mendham Township	Preserve/Park	68.0	2009	URWA	2	8	5	3	0	0
Burnt Mills	BM	URWA	Preserve/Park	11.3	2008	URWA	1	2	1	1	0	0

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Canoe Brook Pumping Station	CBPS	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
Carter	CART	D & R Greenway Land Trust	Preserve/Park	61.6	2009	FoHVOS	1	14	0	2	11	1
Cattail/Bromley	CATT	D & R Greenway Land Trust	Preserve/Park	110.0	2009	FoHVOS	1	1	0	1	0	0
Cedar Ridge	CEDA	D & R Greenway Land Trust	Preserve/Park	121.0	2008	FoHVOS	2	10	0	2	5	3
Cemetery at Corner of White Oak Ridge Road and Parsonage Hill	CEMT	Millburn Township	Municipal Facility	0.1	2009	Partner	1	1	1	0	0	0
Chatham Road - North side Chatham Road	CHNS	Millburn Township	Municipal Facility	0.5	2009	Partner	1	1	0	1	0	0
Chatham Road parking area - 20 Chatham Road	CRPA	Millburn Township	Municipal Facility	2.2	2009	Partner	3	4	1	3	0	0
Chester Department of Public Works	CDPW	Chester Township	Municipal Facility	N/A	2009	Partner	0	0	0	0	0	0
Chubb Park	CHUB	Chester Township	Preserve/Park	85.0	2009	Partner	0	0	0	0	0	0
Community Park North	COMM	Princeton Township	Preserve/Park	71.0	2009	Partner	1	1	0	0	0	1
Creekside Conservancy	CREE	Tewksbury Township	Preserve/Park	3.0	2009	URWA	2	4	0	2	2	0
Curlis Lake Woods	CURL	Mercer County Park Commission	Preserve/Park	133.1	2008	FoHVOS	10	40	10	18	10	2
Cushetunk Mountain	CUMO	Hunterdon County Park Department	Preserve/Park	380.0	2009	URWA	1	1	0	0	0	1
Deer Path Park	DEPA	Hunterdon County Park Department	Preserve/Park	105.0	2009	URWA	1	2	0	0	2	0
Deerfield Grade School - Troy Lane	DRSC	Millburn Township	Municipal Facility	7.7	2009	Partner	3	4	1	3	0	0
Dinner Pot Preserve	DP	URWA	Preserve/Park	12.5	2008	URWA	0	0	0	0	0	0
Double Crossing	DOUB	D & R Greenway Land Trust	Preserve/Park	77.2	2008	FoHVOS	1	2	1	0	1	0
Drakes Corner	DRAK	D & R Greenway Land Trust	Preserve/Park	13.2	2009	FoHVOS	5	7	3	3	1	0
Duke Farms	DUKE	Duke Farms	Preserve/Park	2700.0	2009	Partner	28	108	15	43	44	6
Duke Island Park	DUIS	Somerset County Park Commission	Preserve/Park	340.5	2009	URWA	3	7	1	2	4	0
Eames	EAME	FoHVOS	Preserve/Park	76.0	2008	FoHVOS	0	0	0	0	0	0

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East side Ridgewood Road	RRES	Millburn Township	Municipal Facility	1.1	2009	Partner	1	1	0	0	0	1
East side Ridgewood Road - (Rear)	RRER	Millburn Township	Municipal Facility	0.9	2009	Partner	0	0	0	0	0	0
East side Woodland Road	WRES	Millburn Township	Municipal Facility	0.1	2009	Partner	0	0	0	0	0	0
Elks	ELKS	FoHVOS	Preserve/Park	42.1	2008	FoHVOS	2	5	1	2	2	0
Essex Street and Lackawanna Place (Parking Area)	ESLP	Millburn Township	Municipal Facility	3.2	2009	Partner	1	2	1	1	0	0
Evans Family Preserve and Highlands Ridge Park	EVFA	Chester Township	Preserve/Park	336.0	2009	Partner	0	0	0	0	0	0
Fairview Farm	FF	URWA	Preserve/Park	170.0	2008	URWA	5	78	23	44	9	2
Featherbed Lane	R002	N/A	Roadside	N/A	2009	FoHVOS	1	1	1	0	0	0
Firemans Eddy-Delaware and Raritan Canal SP	FIRE	NJDEP - Parks and Forestry	Preserve/Park	229.7	2009	FoHVOS	3	17	0	1	4	12
Fox Hill Preserve	FH	URWA	Preserve/Park	64.2	2008	URWA	2	3	2	1	0	0
Fox Hill Reserve	FOXH	Millburn Township	Preserve/Park	32.6	2009	Partner	2	5	0	5	0	0
Franz	FRAN	FoHVOS	Preserve/Park	19.9	2008	FoHVOS	0	0	0	0	0	0
Garfi	GARF	FoHVOS	Preserve/Park	4.2	2008	FoHVOS	1	1	0	1	0	0
Genovesi	GENO	FoHVOS	Preserve/Park	3.2	2008	FoHVOS	0	0	0	0	0	0
Gero Park	GEPA	Millburn Township	Preserve/Park	36.3	2009	Partner	12	16	1	14	1	0
Glen Avenue to Brookside Drive - Playfield	GLBR	Millburn Township	Municipal Facility	4.9	2009	Partner	4	5	0	5	0	0
Glenwood Grade School	GLSC	Millburn Township	Municipal Facility	9.4	2009	Partner	8	23	1	16	5	1
Gomez	GOME	FoHVOS	Preserve/Park	58.5	2008	FoHVOS	1	1	1	0	0	0
Greenway Meadows	GREE	D & R Greenway Land Trust	Preserve/Park	53.9	2008	FoHVOS	5	7	2	1	3	1
Grossman	GROS	FoHVOS	Preserve/Park	1.2	2008	FoHVOS	3	9	1	0	8	0
Guastella	GUAS	FoHVOS	Preserve/Park	0.5	2008	FoHVOS	0	0	0	0	0	0
Harshorn Grade School - White Oak Ridge Road	HASC	Millburn Township	Municipal Facility	10.4	2009	Partner	3	6	0	4	2	0

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Hartshorn Arboretum	HART	Millburn Township	Preserve/Park	15.9	2009	Partner	6	12	0	11	1	0
Helen Woodman Natural Area	HELE	URWA	Preserve/Park	19.5	2009	URWA	2	3	0	1	2	0
Heritage	HERI	FoHVOS	Preserve/Park	64.0	2008	FoHVOS	6	12	5	3	3	1
Herronton Woods	HERR	Mercer County Park Commission	Preserve/Park	140.0	2009	Partner	3	21	7	11	3	0
Highfields	HIGH	NJDEP - Natural Lands Trust	Preserve/Park	173.8	2009	FoHVOS	1	9	5	3	1	0
Hillman	HILL	D & R Greenway Land Trust	Preserve/Park	70.5	2008	FoHVOS	4	5	4	1	0	0
Hillsborough Sourlands tract	HISO	Hillsborough Township	Preserve/Park	57.1	2009	FoHVOS	1	2	0	0	2	0
Hobart Avenue Grade School	HOSE	Millburn Township	Municipal Facility	1.5	2009	Partner	1	1	0	1	0	0
Hollow Brook Preserve	HB	URWA	Preserve/Park	21.1	2008	URWA	2	2	0	2	0	0
Hopewell Borough Park	HOPE	Hopewell Borough	Preserve/Park	72.0	2008	FoHVOS	1	6	3	1	2	0
Howell Living History Farm	HOWE	Mercer County Park Commission	Preserve/Park	130.0	2009	FoHVOS	1	1	0	1	0	0
Huber	HUBE	FoHVOS	Preserve/Park	1.0	2008	FoHVOS	0	0	0	0	0	0
Jockey Hollow	JOCK	Morristown National Historic Park	Preserve/Park	1500.0	2009	URWA	8	54	21	19	10	4
Kennedy Park Leaf Dump Area	KPLD	Millburn Township	Municipal Facility	12.7	2009	Partner	3	11	0	4	1	6
Krech	KREC	FoHVOS	Preserve/Park	4.6	2008	FoHVOS	0	0	0	0	0	0
Kulak	KULA	FoHVOS/D & R Greenway Land Trust	Preserve/Park	56.6	2008	FoHVOS	0	0	0	0	0	0
Kunkel Park	KUNK	Pennington Borough	Preserve/Park	7.7	2008	FoHVOS	2	2	0	1	1	0
Lackawanna Place and Glen Avenue - Parking Area	LWGA	Millburn Township	Municipal Facility	3.4	2009	Partner	2	2	0	2	0	0
Lance	LAN	Tewksbury Land Trust	Preserve/Park	35.3	2008	URWA	1	1	1	0	0	0
Lawrence	LAWR	FoHVOS	Preserve/Park	13.9	2008	FoHVOS	1	1	0	0	0	1
Lawrence Nature Center	LANC	Lawrence Township	Preserve/Park	100.0	2009	Partner	2	7	2	1	4	0
LippLewellen	LIPP	FoHVOS	Preserve/Park	4.5	2008	FoHVOS	0	0	0	0	0	0
Mercer County Equestrian Center	MCEC	Mercer County Park Commission	Preserve/Park	106.7	2008	FoHVOS	4	5	2	3	0	0

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Mercer County Park NW	MERC	Mercer County Park Commission	Preserve/Park	786.3	2008	FoHVOS	8	65	37	10	5	13
Millburn Avenue #326 (Parking Area)	M326	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
Millburn Avenue to Taylor Street (Parking Area)	MATS	Millburn Township	Municipal Facility	0.5	2009	Partner	0	0	0	0	0	0
Millburn Fire Department - Essex Street	MIFD	Millburn Township	Municipal Facility	0.5	2009	Partner	1	1	1	0	0	0
Millburn High School - Millburn Avenue	MISC	Millburn Township	Municipal Facility	37.3	2009	Partner	2	2	0	1	1	0
Millburn Junior High School	JHSC	Millburn Township	Municipal Facility	8.1	2009	Partner	4	8	1	5	2	0
Millburn Police Department - Essex Street	MIPD	Millburn Township	Municipal Facility	0.5	2009	Partner	0	0	0	0	0	0
Millburn Town Hall - Parking Area	MITH	Millburn Township	Municipal Facility	1.4	2009	Partner	1	1	0	0	0	1
Millburn Township Garage - Essex Street	MIGA	Millburn Township	Municipal Facility	3.8	2009	Partner	0	0	0	0	0	0
Millburn Township Parking area between Baltusrol Way and S.H. Avenue	MTPA	Millburn Township	Municipal Facility	0.9	2009	Partner	2	3	0	1	1	1
Millburn-Taylor Park	TAPA	Millburn Township	Municipal Facility	15.0	2009	Partner	2	2	1	1	0	0
Moggy Hollow	MOGG	URWA	Preserve/Park	14.0	2009	URWA	0	0	0	0	0	0
Mount	MOUN	FoHVOS	Preserve/Park	0.1	2008	FoHVOS	0	0	0	0	0	0
Nayfield	NAYF	FoHVOS	Preserve/Park	4.6	2008	FoHVOS	0	0	0	0	0	0
Nexus	NEXU	FoHVOS	Preserve/Park	24.5	2008	FoHVOS	4	4	3	0	1	0
North Jersey District Water Supply Commission	NJDW	North Jersey District Water Supply Commission	Preserve/Park	6840.0	2009	Partner	3	4	1	2	0	1

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North side Chatham Road - Station Plaza - opposite Short Hills post office	CHSP	Millburn Township	Municipal Facility	1.2	2009	Partner	2	2	1	0	0	1
North side Chatham Road between Forest Drive to R.R. station	CHFD	Millburn Township	Municipal Facility	1.1	2009	Partner	0	0	0	0	0	0
North side Chatham Road to R.R. property - between Taylor Road and Forest Drive	CHRR	Millburn Township	Municipal Facility	0.7	2009	Partner	2	2	0	2	0	0
North side of Tulip Lane	TLNS	Millburn Township	Municipal Facility	0.0	2009	Partner	0	0	0	0	0	0
Northeast side Gilbert Place	GPNE	Millburn Township	Municipal Facility	1.8	2009	Partner	1	2	0	0	1	1
Northern Stony Brook	NORT	D & R Greenway Land Trust	Preserve/Park	297.9	2008	Partner	1	1	0	1	0	0
Old Short Hills Park	OSHP	Millburn Township	Preserve/Park	46.2	2009	Partner	12	61	1	41	13	6
Old Treatment Plant - West side of Exeter Road	ERTP	Millburn Township	Municipal Facility	0.4	2009	Partner	0	0	0	0	0	0
Omick	OMIC	D & R Greenway Land Trust	Preserve/Park	65.4	2009	FoHVOS	1	1	1	0	0	0
Parker Road Tract	PRTR	Chester Township	Preserve/Park	45.0	2009	Partner	0	0	0	0	0	0
Pascale Park	PASC	Tewksbury Township	Preserve/Park	140.0	2009	URWA	2	4	0	0	0	4
Pennington - Harbourn Rd	R003	N/A	Roadside	N/A	2009	FoHVOS	1	2	1	1	0	0
Pennington Nature Loop	PENN	D & R Greenway Land Trust	Preserve/Park	42.0	2008	FoHVOS	1	3	2	1	0	0
Perkins	PERK	FoHVOS	Preserve/Park	5.0	2008	FoHVOS	0	0	0	0	0	0
Playground, Board of Education (below Myrtle Avenue to Glen Avenue including tennis court)	MYPL	Millburn Township	Municipal Facility	3.5	2009	Partner	0	0	0	0	0	0
Pogorzelski	POGO	FoHVOS	Preserve/Park	8.6	2008	FoHVOS	1	1	0	0	1	0
Private Land	BATC	FoHVOS	Private/Easement	143.8	2008	FoHVOS	1	2	0	1	0	1

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Private Land	BELL	FoHVOS	Private/Easement	10.2	2008	FoHVOS	2	2	1	1	0	0
Private Land	DAVI	FoHVOS	Private/Easement	9.3	2008	FoHVOS	4	6	1	2	3	0
Private Land	DRIV	FoHVOS	Private/Easement	13.8	2008	FoHVOS	0	0	0	0	0	0
Private Land	DOBR	D & R Greenway Land Trust	Private/Easement	61.2	2009	FoHVOS	0	0	0	0	0	0
Private Land	GOMZ	FoHVOS	Private/Easement	6.0	2008	FoHVOS	1	1	1	0	0	0
Private Land	GRA	URWA	Private/Easement	33.6	2008	URWA	0	0	0	0	0	0
Private Land	HOLD	FoHVOS	Private/Easement	213.9	2009	FoHVOS	3	9	6	3	0	0
Private Land	INST	D & R Greenway Land Trust	Private/Easement	589.0	2009	FoHVOS	2	35	6	17	11	1
Private Land	KATR	D & R Greenway Land Trust	Private/Easement	60.0	2009	Partner	2	2	2	0	0	0
Private Land	KUSE	FoHVOS	Private/Easement	129.3	2008	FoHVOS	2	29	5	16	8	0
Private Land	MAZU	D & R Greenway Land Trust	Private/Easement	197.2	2009	FoHVOS	0	0	0	0	0	0
Private Land	NAYD	FoHVOS	Private/Easement	56.9	2008	FoHVOS	1	1	0	1	0	0
Private Land	PRES	FoHVOS	Private/Easement	81.5	2008	FoHVOS	3	7	4	1	1	1
Private Land	PRSO	D & R Greenway Land Trust	Private/Easement	60.0	2009	FoHVOS	2	5	1	2	2	0
Private Land	RIDO	FoHVOS	Private/Easement	19.4	2008	FoHVOS	4	6	2	4	0	0
Private Land	SCHO	FoHVOS	Private/Easement	42.8	2008	FoHVOS	1	1	1	0	0	0
Private Land	WILS	FoHVOS	Private/Easement	93.8	2008	FoHVOS	5	10	6	0	1	3
Private Land	BEEC	Huebner, Charles and Lucia	Private/Individual	56.7	2008	FoHVOS	1	1	0	0	0	1
Private Land	GRAV	Private	Private/Individual	28.8	2008	FoHVOS	0	0	0	0	0	0
Private Land	NAPU	Private	Private/Individual	28.5	2009	FoHVOS	1	6	3	3	0	0
Private Land	OLUK	Private	Private/Individual	13.5	2008	Partner	2	2	2	0	0	0
Private Land	DESI	Private	Private/Individual	6.0	2009	URWA	4	11	4	4	3	0
Private Land	PRWA	Private	Private/Individual	N/A	2009	Partner	1	1	0	0	1	0
Private Land	PRWH	Private	Private/Individual	N/A	2009	Partner	1	1	0	0	1	0
Private Land	SIMM	Private	Private/Individual	2.0	2009	FoHVOS	2	3	0	0	1	2
Private Land	WYLI	Wylie, Karen	Private/Individual	3.2	2008	FoHVOS	2	2	0	1	1	0
Pumping station	PUST	Millburn Township	Municipal Facility	0.1	2009	Partner	0	0	0	0	0	0
Pumping Station - Corner White Oak Ridge Road and Mohawk Road	WOPS	Millburn Township	Municipal Facility	0.3	2009	Partner	0	0	0	0	0	0
Pumping Station - Opposite Slayton Drive	SDPS	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
Pumping station - West side of Colonial Way	CWPS	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
Railroad Ave	R001	NA	Roadside	N/A	2009	URWA	1	1	0	0	1	0

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Rappaport	RAPP	Hopewell Township	Preserve/Park	43.4	2009	FoHVOS	3	15	6	2	0	7
Rear - Parsonage Hill Road - East Orange Golf Club	EOGC	Millburn Township	Municipal Facility	1.2	2009	Partner	1	1	0	1	0	0
Rear of Main Street at Boundary Line of Springfield	MSSP	Millburn Township	Municipal Facility	0.0	2009	Partner	0	0	0	0	0	0
Ridgewood Road to Vauxhall Road	RRVR	Millburn Township	Municipal Facility	0.6	2009	Partner	1	1	0	1	0	0
Roadside - Penwell Rd - Lebanon Township	R004	N/A	Roadside	N/A	2009	Partner	3	3	1	0	1	1
Roebing Park	ROEB	Mercer County Park Commission	Preserve/Park	216.0	2009	Partner	7	29	8	15	4	2
Rolfes Track	ROLF	URWA	Preserve/Park	19.3	2009	URWA	2	7	0	3	4	0
Rosedale Park	ROSE	Mercer County Park Commission	Preserve/Park	483.0	2008	FoHVOS	3	3	1	1	1	0
Rosedale Woods	ROWO	D & R Greenway Land Trust	Preserve/Park	14.4	2008	FoHVOS	5	9	1	2	5	1
Roxiticus Preserve	ROXI	URWA	Preserve/Park	6.0	2009	URWA	3	10	2	5	3	0
Saint Michaels	SAIN	D & R Greenway Land Trust	Preserve/Park	357.6	2008	Partner	2	6	3	3	0	0
Schiff Nature Preserve	SCHI	Schiff Natural Lands Trust	Preserve/Park	512.0	2009	URWA	8	79	21	22	22	14
Shopping Court (Parking Area)	SCPA	Millburn Township	Municipal Facility	0.3	2009	Partner	0	0	0	0	0	0
Skyview Partners	SKYV	FoHVOS	Preserve/Park	72.2	2008	FoHVOS	6	19	5	5	3	6
Smith property parking area-12 Short Hills Avenue	SMPA	Millburn Township	Municipal Facility	1.2	2009	Partner	1	1	0	1	0	0
Sommer Park	SOMM	Mercer County Park Commission	Preserve/Park	95.9	2008	FoHVOS	3	5	1	0	2	2
Sourland Mountain Preserve	SOMO	Somerset County Park Commission	Preserve/Park	3196.7	2009	Partner	1	2	1	1	0	0
South Mountain School	SMSC	Millburn Township	Municipal Facility	3.6	2009	Partner	1	1	1	0	0	0
South side Hobart Avenue between Forest Drive and Knollwood Road	HAFD	Millburn Township	Municipal Facility	0.6	2009	Partner	1	1	0	1	0	0

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South side Hobart Avenue to R.R. property (between Taylor Road and Forest Drive)	HARR	Millburn Township	Municipal Facility	0.6	2009	Partner	1	1	0	1	0	0
South side Millburn Avenue (next to Millburn Deli)	MASS	Millburn Township	Municipal Facility	0.2	2009	Partner	0	0	0	0	0	0
Southeast corner Glen Avenue and Wyoming Avenue	GLWY	Millburn Township	Municipal Facility	0.3	2009	Partner	1	1	0	0	0	1
Southwest corner Lackawanna Place and Glen Avenue (Library and Parking Area)	LWSW	Millburn Township	Municipal Facility	3.6	2009	Partner	2	3	0	3	0	0
Southwest side Gilbert Place	GIPL	Millburn Township	Municipal Facility	0.6	2009	Partner	0	0	0	0	0	0
Station Plaza -North side	SPNS	Millburn Township	Municipal Facility	0.4	2009	Partner	2	3	0	1	1	1
Stephens	STEP	FoHVOS	Preserve/Park	5.1	2008	FoHVOS	0	0	0	0	0	0
Stony Brook Millstone Watershed Association	STON	SBMWA	Preserve/Park	806.6	2008	FoHVOS	3	5	3	2	0	0
Tanners Brook Tract	TANN	Chester Township	Preserve/Park	71.0	2009	Partner	0	0	0	0	0	0
Thompson	THOM	FoHVOS	Preserve/Park	57.0	2008	FoHVOS	4	6	2	0	1	3
Tiger Brook Park and MacGregor Park	TIMA	Chester Township	Preserve/Park	430.0	2009	Partner	2	4	0	4	0	0
United Water	UNIT	NJDEP - Parks and Forestry	Preserve/Park	398.0	2009	Partner	1	1	0	0	1	0
Vales	VALE	FoHVOS	Preserve/Park	6.0	2008	FoHVOS	0	0	0	0	0	0
Vogler	VOGL	FoHVOS	Preserve/Park	10.3	2008	FoHVOS	0	0	0	0	0	0
Wagner	WAGN	D & R Greenway Land Trust	Preserve/Park	41.4	2009	FoHVOS	1	1	0	0	1	0
Wallin	WALL	D & R Greenway Land Trust	Preserve/Park	7.7	2009	FoHVOS	0	0	0	0	0	0
Washington Crossing SP - Main	WASH	NJDEP - Parks and Forestry	Preserve/Park	918.3	2008	FoHVOS	14	148	43	77	23	5

Appendix B.
 2009 CJISST Annual Report
 Cumulative Site Searching Summary
 Central Jersey Invasive Species Strike Team

Site Name	Site Code	Manager	Site Type	Property Size (acres)	Initial Survey Year	Initial Submission	Total Number of Species Detected	Total Number Detected Populations	Number of Populations by Size			
									1	2-10	11-100	>100
Washington Crossing SP - Sourlands Tract	WASO	NJDEP - Parks and Forestry	Preserve/Park	10.0	2009	FoHVOS	1	1	1	0	0	0
Washington Crossing SP - Tassone	TASS	NJDEP - Parks and Forestry	Preserve/Park	56.0	2008	FoHVOS	1	1	1	0	0	0
Watchung Reservation	WATC	Union County	Preserve/Park	2000.0	2009	Partner	10	131	56	26	18	31
Weidel	WEID	FoHVOS	Preserve/Park	1.6	2008	FoHVOS	0	0	0	0	0	0
Wescott Preserve	WESC	Hunterdon County Park Department	Preserve/Park	182.0	2009	FoHVOS	1	1	0	0	1	0
White Oak Ridge Fire House	WOFD	Millburn Township	Municipal Facility	4.9	2009	Partner	0	0	0	0	0	0
William Post Natural Area	POST	URWA	Preserve/Park	11.9	2009	URWA	2	3	1	1	1	0
Woodfield Reservation	WOOD	Princeton Township	Preserve/Park	91.6	2009	FoHVOS	5	42	11	11	16	4
Wyoming School - Myrtle Avenue	WYSC	Millburn Township	Municipal Facility	1.7	2009	Partner	2	2	0	2	0	0
Total	N/A	N/A	N/A	30923	N/A	N/A	420	1699	474	655	377	193

Appendix C.
 2009 CJISST Annual Report
 Cumulative Eradication Summary & 2010 Eradication Priorities
 Central Jersey Invasive Species Strike Team

Scientific Name	Common Name	Number of Detected Populations	Initiated Eradications	Completed Eradications	% of Detected Populations with Eradication Efforts	# of Completed Eradications Anticipated for 2010	2010 Eradication Strategies and Priorities
<i>Acer ginnala</i>	Amur maple	1	0	0	0.0	1	Attempt eradication of all known populations
<i>Acer palmatum</i>	Japanese maple	5	0	1	20.0	4	Attempt eradication of all known populations
<i>Acer pseudoplatanus</i>	sycamore maple	9	0	0	0.0	5	Begin eradication of small populations and outreach to encourage removal of ornamental plantings
<i>Actinidia arguta</i>	hardy kiwi	2	0	0	0.0	2	Attempt eradication of all known populations
<i>Akebia quinata</i>	chocolate vine	9	4	2	66.7	7	Attempt eradication of all known populations
<i>Alnus glutinosa</i>	European alder	1	0	0	0.0	1	Attempt eradication of all known populations
<i>Amorpha fruticosa</i>	desert false indigo	4	0	0	0.0	0	Defer eradication efforts
<i>Ampelopsis brevipedunculata</i>	Porcelainberry	35	2	0	5.7	10	Begin eradication of small populations
<i>Aralia elata</i>	Japanese angelica tree	101	18	5	22.8	10	Begin eradication of small populations
<i>Buddleja davidii</i>	orange eye butterflybush	14	0	0	0.0	5	Begin eradication of small populations and outreach to encourage removal of ornamental plantings
<i>Cardamine impatiens</i>	narrowleaf bittercress	123	11	17	22.8	0	Species is likely to be de-listed and will become "Widespread"
<i>Clematis terniflora</i>	Japanese clematis	16	0	1	6.3	8	Begin eradication of small populations and outreach to encourage removal of ornamental plantings
<i>Cynanchum louiseae</i>	black swallowwort	4	0	0	0.0	4	Attempt eradication of all known populations
<i>Dipsacus laciniatus</i>	cutleaf teasel	1	0	0	0.0	0	Defer eradication efforts

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<i>Eleutherococcus sieboldianus</i>	fiveleaf aralia	6	0	0	0.0	6	Attempt eradication of all known populations
<i>Euonymus europaea</i>	European spindle tree	2	0	0	0.0	2	Attempt eradication of all known populations
<i>Euonymus fortunei</i>	winter creeper	12	0	0	0.0	12	Attempt eradication of all known populations
<i>Hedera helix</i>	English ivy	46	2	2	8.7	10	Begin eradication of small populations and outreach to encourage removal of ornamental plantings
<i>Heracleum mantegazzianum</i>	giant hogweed	2	0	0	0.0	2	Attempt eradication of all known populations
<i>Humulus japonicus</i>	Japanese hop	42	0	0	0.0	0	Species is likely to be de-listed and will become "Widespread"
<i>Humulus lupulus var. lupulus</i>	common hop	1	0	1	100.0	0	Species removed from 2010 Target List
<i>Iris pseudacorus</i>	pale yellow iris	3	0	0	0.0	0	Defer eradication efforts
<i>Lespedeza cuneata</i>	sericea lespedeza	16	0	0	0.0	0	Species is likely to be de-listed and will become "Widespread"
<i>Ligustrum ovalifolium</i>	California privet	1	0	0	0.0	0	Species removed from 2010 Target List
<i>Lonicera fragrantissima</i>	fragrant honeysuckle	1	0	0	0.0	0	Continue outreach for removal of ornamental planting
<i>Lysimachia nummularia</i>	creeping jenny	29	0	0	0.0	0	Species removed from 2010 Target List
<i>Malus toringo</i>	Japanese crabapple	51	0	17	33.3	0	Species removed from 2010 Target List

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 Cumulative Eradication Summary & 2010 Eradication Priorities
 Central Jersey Invasive Species Strike Team

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<i>Miscanthus sinensis</i>	Chinese silvergrass	54	2	4	11.1	25	Begin eradication of small populations and outreach to encourage removal of ornamental plantings
<i>Pachysandra terminalis</i>	Japanese pachysandra	27	0	0	0.0	0	Species removed from 2010 Target List
<i>Parthenocissus tricuspidata</i>	Boston ivy	4	0	0	0.0	4	Attempt eradication of all known populations
<i>Perilla frutescens</i>	beefsteakplant	4	0	0	0.0	0	Defer eradication efforts
<i>Phellodendron amurense</i>	Amur corktree	3	0	1	33.3	2	Attempt eradication of all known populations
<i>Photinia villosa</i>	Oriental photinia	204	8	67	36.8	137	Attempt eradication of all known populations
<i>Polygonum orientale</i>	kiss me over the garden gate	2	0	0	0.0	2	Attempt eradication of all known populations
<i>Polygonum perfoliatum</i>	Mile-a-Minute	67	1	2	4.5	0	New biological control agent appears promising for regional control
<i>Pyrus calleryana</i>	Callery pear	59	2	17	32.2	42	Attempt eradication of all known wild populations and provide outreach to encourage removal of ornamental plantings
<i>Rhamnus cathartica</i>	common buckthorn	46	1	7	17.4	39	Attempt eradication of all known populations
<i>Rhodotypos scandens</i>	jetbead	15	3	2	33.3	13	Attempt eradication of all known populations
<i>Rorippa nasturtium-aquaticum</i>	white watercress	20	1	1	10.0	0	Species is likely to be de-listed and will become "Widespread"
<i>Rosa canina</i>	dog rose	1	0	0	0.0	0	Single population is an ornamental planting and cannot be treated

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<i>Rubus laciniatus</i>	cutleaf blackberry	1	1	0	100.0	1	Attempt eradication of all known populations
<i>Trapa natans</i>	water chestnut	3	1	1	66.7	2	Attempt eradication of all known populations
<i>Ulmus procera</i>	English elm	2	0	1	50.0	0	Defer eradication efforts, All known populations located at Duke Farms. Many areas require additional survey.
<i>Viburnum dilatatum</i>	linden viburnum	426	46	71	27.5	50	Attempt eradication of all small and outlier populations to reduce further spread
<i>Viburnum plicatum</i>	Japanese snowball viburnum	3	0	0	0.0	0	Provide outreach to encourage removal of ornamental plantings
<i>Viburnum setigerum</i>	tea viburnum	4	0	1	25.0	0	Provide outreach to encourage removal of ornamental plantings
<i>Viburnum sieboldii</i>	Siebolds viburnum	120	1	76	64.2	44	Attempt eradication of all known populations
<i>Wisteria floribunda</i>	Japanese wisteria	67	11	3	20.9	50	Attempt eradication of all known wild populations and provide outreach to encourage removal of ornamental plantings
Totals	N/A	1669	115	300	N/A	500	N/A

Appendix D.
2009 CJSST Annual Report
Central Jersey Invasive Species Strike Team
CJSST Partner List Through December 2009

Organization	Contact	Title	Phone	Email
Bowman's Hill Wildflower Preserve	Jeannine Vannais	Plant Stewardship Index Coordinator	215-862-2924	vannais@bhwp.org
Brooklyn Botanic Garden	Steven Glen	New York Metropolitan Flora Project	718-623-7314	sglenn@bbg.org
Cora Hartshorn Arboretum	Alda Krinsman	Trustee, Woodlands and Garden	973-376-3587	krinsman57@yahoo.com
Cranbury Township Environmental Commission	Barbara Rogers, Anna Drago	EC member	609- 655-4921, 609-655-3169	bbrogers21@gmail.com, adrago@earthlink.net
Delaware River Greenway Partnership	Barbara Ross	Board Member	609-239-0444	albatross8@verizon.net
D&R Greenway Land Trust	Jim Amon	Director of Stewardship	609-924-4646	jamon@drgreenway.org,
Friends of Hopewell Valley Open Space	Michael Van Clef	Stewardship Director	609-730-1560	Michael@fohv.org
Duke Farms	Thom Almendinger	Team Leader of Natural Resource Management	908-243-3656	talmendinger@ddcf.org
Hopewell Township	Paul Pogorzelski	Township administrator & engineer	609-737-0605	paulpogo@hopewelltp.org
Hunterdon County Parks	Laura Kroon	Park Naturalist	908-782-1158	lkroon@co.hunterdon.nj.us
Hunterdon Land Trust	Kate Buttolph	Land Acquisition and Stewardship Director	908-237-4582	kate@hlta.org
Lawrence Brook Watershed Partnership	Alan Godber	Board President		agodber@mac.com
Meadows + More	Tama Matsuoka	President		tamamat@earthlink.net
Mercer County Master Gardeners	Barbara Bromley	Mercer County Horticulturist	609-989-6830	bbromley@mercercounty.org
Mercer County Parks Department	Jennifer Rogers	Park Naturalist	609-989-6540	jrogers@mercercounty.org
Mercer County Planning Department	Lisa Fritzingler	Supervising Planner	609-989-6545	Fritzingler@mercercounty.org
Merck and Co., Inc. --"Champions for the Environment"	Nancy Held	Merck Champion representative		nancy_held@merck.com
Mendham Township	John Schmerler, Ralph Rhodes	Environmental Commission		SchmerlerJ@aol.com, rrrhodes22@aol.com
Middlesex County Department of Parks and Recreation	Rick Lear, Valerie Lysenko	Open Space Coordinator, Park Naturalist	732-745-5988, 732-745-3064	richard.lear@co.middlesex.nj.us, valerie.lysenko@co.middlesex.nj.us
Millburn Township	Tom Doty	Township Forester	973-564-7058	tdoty@millburntp.org
Monmouth County Parks	Ken Thoman	Park Manager	732-842-4000 x4267	KTHOMAN@co.monmouth.nj.us
Montclair State University	Meiyin Wu	Associate Professor	973-655-7800	wum@mail.montclair.edu
Morris County Parks	Kelli O'Conner	Superintendent of NRM	973-829-8417	koconnor@MorrisParks.net
Morristown National Historic Park	Robert Masson	Biologist	908-766-6841	Robert_Masson@nps.gov
Native Plant Society of New Jersey	Kathleen Salisbury	President		ksalisbury@optonline.net
Musconetcong Watershed Association	Beth Styler Barry	Executive Director	908-455-1404	beth@musconetcong.org
Natural Resource Conservation Service	Tim Dunne	State Resource Conservationist	732-537-6051	tim.dunne@nj.usda.gov
New Jersey Conservation Foundation	Tim Morris	Director of Stewardship	908-234-1225	tim@njconservation.org

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Organization	Contact	Title	Phone	Email
NJDEP – Division of Fish & Wildlife	Miriam Dunne	Northern Region Habitat Biologist	908-637-4125	Miriam.Dunne@dep.state.nj.us
NJDEP – Division of Parks and Forestry	David Donnelly	Superintendent of Parks	609-439-6539	wcspsupt@Comcast.net
NJ Forestry Association	Sylvia Miller	Director	908-735-4318	jm52@nyu.edu
NJ Audubon Society	J. Michael Pollock, Gylla MacGregor	Restoration Specialist, Conservation Ecologist	908-766-5787 x19, 908-837-9571	michael.pollock@njudubon.org, gylla.macgregor@njudubon.org
Pennington Borough	Tom Ogren	Shade Tree Commission		togren1607@aol.com
Raritan Valley Community College	Jay Kelly	Biology/ Environmental Science	908-526-1200 x8531	jkelly@raritanval.edu
Rutgers University	Joan Ehrenfeld	Professor	732-932-1081	ehrenfel@rci.rutgers.edu
Schiff Natural Lands Trust	Tanya Sulikowski	Executive Director	973-543-6004	tanya@schiffnaturepreserve.org
Somerset County Parks	Dave Dendler	Park Ranger Manager	908-231-0802 x22	ddendler@SCPARKS.ORG
Sourland Planning Council	Judy Jengo	Executive Director		JudyJengo@aol.com
South Mountain Conservancy	Glenn Butcher	Board of Trustees	862-520-8857	g.butcher@alumni.duke.edu
Stony Brook – Millstone Watershed Association	Bay Weber	Director of Property and Open Space	609-737-3735 ext. 21	bweber@thewatershed.org
Tewksbury Land Trust	Ken Klipstein	President	908-685-0315	kklipstein@raritanbasin.org
Tewksbury Twp Environmental Commission	Christopher Teasdale	EC Chair		christeasdale@earthlink.net
Upper Raritan Watershed Association	Melissa Almendinger	Invasive Species Coordinator	908-234-1852 x13	melissa@urwa.org
Union County Parks	Betty Ann Kelly	Environmental Specialist	908-789-3683	bkelly@ucnj.org
US Fish & Wildlife Service, Great Swamp National Wildlife Refuge	Steve Henry, Craig Bitler	Deputy Refuge Manager, Wildlife Biologist	973-425-1222 x16, 973-271-8619	Steven_S_Henry@fws.gov
Verona Park Conservancy	Deborah Mac Evoy Jacobsen	Vice President	973-271-8619	debmackake@comcast.net
Washington Crossing Audubon Society	Patricia Sziber	Conservation Chair		SziBird@aol.com