CohesiveApproach forInvasiveSpeciesManagement intheNortheasternU.S.

USDAForestService March2007



Cohesive Approach for Invasive Species Management in the Northeastern U.S.

USDA Forest Service March 2007

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ExecutiveSummary

This document outlines a coordinated approach to im *Strategy and Implementation Planfor Invasive Speci* the 20 states bounded by Minnesota, Maine, West Vir

plementtheForestService *National es*intheNortheast.TheNortheastrefersto ginia,andMissouri.



Thedevelopmentofthisdocumentwassupportedbyt StateandPrivateForestry,theActingDirectorof EasternRegional(R9)ForesteroftheNationalFore ofJanuary13,2006).

heDirectorofNortheasternArea(NA) theNorthernResearchStation(NRS)andthe stSystem(NAmemo1310/1900/2070/2080

EachadministrativebranchoftheForestServicein distinctskills,resources,partnershipsandauthor species.Additionally,eachbranchhasongoingact and supporting documents. Coordinated activities a informal orimpromptubasis.

thenortheasternUS(R9,NA,NRS)has itiestobringtobearontheissueofinvasive ivitiesguidedbypreviousplanningefforts recommon,buttheseoftenoccuronan

Toachievenationalgoalsforaddressingnon-native coordinatedactionsamongtheForestServicebranch recognizingaRegionalInvasiveSpeciesIssueTeam

invasivespeciesthroughsustained, es,thisdocumentrecommendsofficially (RISIT)andoversightstructurethatwill:

- Facilitatecollaborationtoaddressinvasivespecie
- Capitalizeonthediverseprogramcapabilities and Systems, S&PF, and Research and Development,
- Convertdiscussionsintotargetedactionplans, and
- Ensureleadershipoversight.

s, authoritiesoftheNationalForest

Introduction

TheareaservedbytheEasternRegionoftheNation StationandNortheasternStateandPrivateForestry theNation'sforestlands,andishometoover43p oftheNation'sforestsispredominantly(73%)inn water-richportionsofthecountry. Theseforests are valued for goods (e.g., timber and non-timber f wild life habitat, recreation, and quality of life) to serious threat to the integrity of these systems.

alForestSystem,theNorthernResearch y spanstwentystates,supports25percentof ercentofthenation'spopulation.Thisquarter on-federalownershipandisoneofthemost andwatershedssupportlocaleconomiesand orestproducts)andservices(cleanwater, thattheyprovide.Invasivespeciesrepresenta

An *invasivespecies* isdefinedasaplant,animal,ormicrobe,includi ngitsseeds,eggs,sporesor otherbiologicalmaterialthatisnon-nativetothe ecosystemunderconsiderationandwhose introductioncauses,orislikelytocause,economi corenvironmentalharmorharmtohuman health(ExecutiveOrder11312).

Thenortheastern U.S. is host to a number of invasi vespecies. Exoticins ectinfestations of nationalconcerninclude: gypsymoth, hemlockwoollyadelgid, Asianlonghornedbeetle, emeraldashborer, and Sirexnoctilio. Someoftheinvasive plantspecies of greatest c oncern include *purpleloosestrife*, *garlicmustard*, *Japanesebarber* ry, kudzu, spottedknapweed, buckthorn, leafy spurge, and Japanese stilt grass. Important exotionation buckthorn, leafy spurge, and Japanese stilt grass. oakwilt, Dutchelmdisease, butternut canker , beechbarkdisease ,and whitepineblisterrust .Aquatic infestationsincludespeciessuchasz ebramussels,rustycrayfish,spinywaterflea,Eur asian watermilfoil, and non-nativefish, including four species of Asiancarp .Invasiveanimalssuchas feralhogsarealsoofconcernintheeast.Addres singinvasivespeciesiswithinthemissionof theUSDAForestService:

"Themission of the USDAF or est Service is to sust a productivity of the Nation's forests and grasslands future generations" (Forest Service Strategic Plan

inthehealth, diversity, and tomeet the needs of present and for Fiscal Years 2004-2008).

 $Three Forest Service administrative units have resp \\ on sibilities in the northeastern United States.$

The Eastern Region's National Forests provide leadership coordination, strategic plannin and monitoring forman agement of 15 national forest s/prairies totaling more than 12 million acres. National Forest Management authorities, policies and objectives relevant to invasive species management include: Protecting and managing the National Forests and Grasslands so they be stdemonstrate the sustainable multiple-use conservation ethic in promoting the health, product ivity, diversity, and be auty of forests and associated lands. (FSM 1020, FSM 2080)

TheNorthernResearchStation developsanddisseminatesscientificknowledgeand toolsfor thesustainablemanagementofforests.ForestServi objectivesrelevanttoinvasivespeciesmanagement necessaryforsustainablemanagementofforests,ra protectionofproducts,amenities,andvaluesderiv ceResearchauthorities,policies,and include:Discoverordevelopprinciples ngelands,andgrasslands,andtheuseand edfromtheselands.(FSM4020)

TheNortheasternAreaforStateandPrivateForestr and state and local governments with technical and forest management and use within the 20 northeaster Forest Service State and Private Forest ryauthoriti species management include: To providenational lea assistance to State organizations, forest landowner urban forest ryinterests, and others to: Protect and space, and the environment (FSM 3010).

str yprovidesallfederalagencies,triballands, financialassistanceinsupportofsustainable nstatesandtheDistrictofColumbia. es,policies,andobjectivesrelaventtoinvasive dershipandtechnicalandfinancial s,operatorsandprocessorsofforestproducts, andimprovethequalityofair,water,soil,open

EachoftheseForestServiceunitshavedistinctsk bringtobearontheissueofinvasivespecies.Th structureandprocessbywhicheachadministrative values,highlighttheexistingeffortsofeachunit Serviceactionsaddressingtheinvasivespeciesiss

ills,resources,partnerships,andauthoritiesto epurposeofthisdocumentistodefinea unitcan:sharetheirrespectivedistinct,andincreasecoordinatedeffortsforForest uesofthenortheasternUnitedStates.

AdministrativeFoundation

Anumberoflaws,regulations,andpoliciesrelate to foundonthefederalinvasivespecieswebsitealong http://www.invasivespeciesinfo.gov/laws/main.html

toinvasivespeciesmanagement. They can be with associated links at:

TheForestServiceStrategicPlanforFiscalYears ForestServicemission.GoalTwospecificallyrela

2004-2008identifiedsixgoalstosupportthe testoinvasivespecies:

"Reducetheimpactsfrominvasivespecies:restore thehealthoftheNation'sforests and grasslands to be resilient to the effects of in vasive in sects, pathogens, plants, and pests."

ToaccomplishthisgoaltheForestServiceproposes to:

- Implementandsupportactionstodetectandmonitor newintroductionsofinvasiveplants,
- Managepopulationsofestablishedinvasivespecies restorationtacticstoreduceimpactsandrestoree
- Involvepartnersindevelopinganationallyconsist enhances using risk maps at national, state, region
- Implementrisk-baseddetectionsurveystoidentify speciesbasedonavailabilityofsusceptiblehosts, invasion, and likely movement pathways of invasive
- CooperatewithotherFederal,State,tribal,andno conservationeducationeffortsthatincreasepublic encouragesupportandparticipationinmanagementa

both established populations and

using prevention, suppression, and cosystems,

entrisk-modelingapproachthat al, and local scales,

forestvulnerabilitytoinvasive suitableenvironmentalconditionsfor species,

n-governmentalpartnersin awarenessofinvasivespeciesand ctions.

Asfurtherguidance,in2004theForestServicedev elopedtheNationalStrategyand ImplementationPlanforInvasiveSpeciesManagement .

EarlierbutseparateForestServicedocumentsthat addressedinvasivespeciesincludetheNorth CentralandNortheastResearchStationsandNorthea sternAreaStateandPrivateForestry Ex InvasiveSpeciesStrategicPlan(January2000), theEasternRegionNon-nativeInvasiveSpecies (NNIS)Framework(2003), theEasternRegionAquaticInvasiveSpeciesProgra mofwork (2005), and the EasternRegionNativePlantFramewo rk(2004). Allofthesedocuments acknowledgetheimportanceofacoordinatedeffort todeal withinvasivespecies, butnone of these documents describe away to help make this has addressed invasive species include the North addressed invasive species include the North stern Area State and Private Forestry Ex Invasive Species (NNIS) Framework (2003), the Eastern Region Aquatic Invasive Species Progra mofwork (2004). Allofthese documents acknowledge the importance of a coordinate deffort to deal within vasive species, but no ne of the sedocuments acknowledge to the sedocuments and the sedocument species and the sedocument sp

UndertheleadershipanddirectionoftheWashingto havebeendirectedtoestablishRegionalInvasiveS threeForestServiceadministrativeunits.Thepur promunicationaboutplans,activities,andaccompli AwarenessabouttheexistenceoftheRISIThasbeen havebeenself-nominated.Beyondcommunication,ex limited.

nOffice,allregions(asorganizedbyNFS)
peciesIssueTeams(RISIT)involvingall
poseoftheRISITistofacilitate
shmentsthatdealwithinvasivespecies.
limitedtodate.ManyRISITmembers
ex pectationsoftheRISIThavebeen

Exotic

OverviewofMajorCurrentActivitiesbyAdministrat iveUnit

<u>EasternRegionNationalForestSystemNon-nativeIn</u> vasiveSpeciesActivities:

TheEasternRegion's(R9)InvasiveSpeciesProgram initialemphasisonnoxiousweedsfoundonrangelan speciesofgreatestconcernintheeastincludepur ple barberry,kudzu,spottedknapweed,buckthorn,leafy infestedacreagefiguresarejustbeginningtoemer grompletedtheirinitialinventoriesandenteredint oth non-nativeinvasiveplantshasincreasedsix-foldi acrestreatedin2006.Treatmentacresareexpecte drorestscompleteNEPAdocumentsforintegratedpest cooperativeweedmanagementareasemergewithconti achieverestorationgoals.

h hasbeenactivesincethe 1970's with dsinthewestern U.S. Invasive plant pleloosestrife, garlicmustard, Japanese spurge, and Japanese stiltgrass. Accurate geonthe R9Forests/Prairies that have othecorporate NRIS databases. Treatment of nthe last decade, with approximately 5600 dtoincrease exponentially as additional management, additional partnerships, and nuedemphasison integrated programs to

Emeraldashborer, gypsymoth, hemlockwoollyadelg idoakwilt, and otherforest pests are managed with technical assistance and treatment recommendat ions from State and Private Forestry.

TheEasternRegionhasbeenactiveinTheGreatLak outcomeofExecutiveOrder13340(2004). Theiniti governors, mayors and tribal authorities addressed aquaticinvasive species. Aquaticand terrestrial a this time although zebramus sels, rusty crayfish, s native fish, including four species of Asian carp, concern. An Aquatic Invasive Species Program of Wooned ucation and outreach related towater based re Lakes Regional Collaboration Strategy.

esRegionalCollaborationInitiative,an ative,supportedbytheGreatLakes issuesrelatedtoterrestrialhabitat-speciesand animalacreageestimatesarenotavailableat pinywaterflea,Eurasianwatermilfoil,non-andexoticearthwormsareofparticular orkwasimplementedinFY05-06focusing creationalactivitieshighlightedintheGreat

TheR9Non-nativeInvasiveSpeciesFrameworkencour agedintegratedbudgetsandprograms andhasresultedinincreasedopportunitiessincei tsinception.Partnershipswithlocalagencies andorganizationshaveexpanded.Traininghasbeen providedonnon-nativeinvasivespecies management,nativeplantrestoration,AquaticOrgan ismPassage,CooperativeWeed ManagementArea,andNRISInventory.Collaboration betweenNationalForestSystems,State andPrivateForestryandResearchhasincreased.

TheRegionhelpedestablishtheMidwestInvasivePl NatureConservancyandhasrepresentedtheagencyw whichrepresentsseniorleadersoffederalagencies invasivespeciesteam.Acrestreatedhaveincrease fieldguides,non-nativeinvasivespecieslearning brochures,signs,andwebpageshavebeendeveloped

antNetworkthroughapartnershipwithThe iththeMidwestNaturalResourcesGroup, intheMidwestandincludesaterrestrial dandnumerouscommunicationtoolssuchas kitsanddisplays,onlinetemplatesforlocal sincetheframework'srelease.

NationalForests/Prairiesfocusforfutureyearsin preventionmeasures, completion of initial inventor acres. With the intermixed ownership in the east, Management Areas, or similar efforts, are essential

cludescontinuedemphasisoninterdisciplinary iesandNEPAtofacilitateincreasedtreatment partnershipsandCooperativeWeed

The Region has been the recipient of Native Plante sixteen National Forests/Prairies to implement its

armarksandhasinitiatedprojectsonnineof NativePlantFramework(2004).

NorthernResearchStationInvasiveSpeciesActiviti es:

TheNorthernResearchStationwasformedthroughth StationandtheNorthCentralResearchStation.Si responsibilityforthestudyofinvasivespecies,b utothestudyofadiversityofexoticinsects,dise basicbiology,tocontrolmethods,toeconomicand researchscientistsincludingbiologists,ecologist scientists,andbotanists.Researchfocusesprimar invasiveweedsarecommandingmoreattention.

nth emergeroftheNortheasternResearch xresearchworkunitshaveprimary utmorethan13researchworkunitscontribute ases,pathogens,weeds,andvertebratesfrom socialimpacts.Studiesareconductedby s,entomologists,plantpathologists,social ilyonexoticinsectanddiseases,though

Notablesubjectsofresearchinclude,butarenotl butternutcanker,emeraldashborer,exotic *Phytop* suddenoakdeath),Dutchelmdisease,exoticbarkb honeysuckle,oakleafscorch,oakwilt,Scleroderis stiltgrass.Withrespecttoinvasivespecies,the mprovidenewscientificandtechnicalknowledgeonp managementofinvasivepeststoimproveandsustain forestsandgrasslandsinthenorthernandneighbor

tl imitedto, Asianlonghornedbeetle, buckthorn, Phytophthoraspp. (including the causal agent of arkb eetles, gypsymoth, hemlockwoolyadelgid, canker, tree of heaven, and Japanese mission of the Northern Research Stationisto athways, life histories, impacts, and ustain the health, diversity, and productivity of ingregions of the United States.

NRScollaborates with the National Invasive Species Inspection Service, USDAA gricultural Research Service, Oak Management, USDINational Park Service, Oak

Council, USDAAnimalandPlantHealth ice, USDAForestService, USDIBureau RidgeNationalLaboratory, The Nature

Conservancy, stated epartments of natural resources ,statedepartmentsofagriculture, companies, and international research partners. universities(domesticandinternational), private

A10-yearplan, entitled "ACharter for Exotic Inva theNorthernResearchStation,"hasbeendraftedan Thisplanstrivestoachievefiveoutcomes:

siveSpeciesResearchandDevelopmentin disbeingrefined.

- 1. Regulatoryofficialsandnaturalresourcemanagers assessrisksposedbynewspeciesorpathwaysanda pestinvasion.
- 2. Naturalresourcemanagersapplypredictivemodelsf forpestsurveysanddetectnewlyinvadingspecies NewmethodsandtechnologiesfromNRSquicklydelim andenableeradicationofthepopulation.
- 3. Naturalresourcemanagersuserefined,integratedc suppresspestdensitiesonlywhenforestresources
- 4. Naturalresourcemanagersuseappropriatespeciesa NRStorestoredesiredstructureandfunctiontoec
- 5. Naturalresourcemanagersandpolicymakersuseeco understanding of the social and economic dimensionsandgrasslandsbyefficientlyallocatingresources early-detection-and-rapid-response, and management- and-mitigation activities.

usemodelsanddatafromNRSto pplyeffectivemeasurestoprevent

romNRStoidentifyhigh-riskareas withadesireddegreeofconfidence. ittheextentoftheinfestation

ontrolmethods, designed by NRS to aretrulyatrisk.

ndimprovedgermplasmselectedby osystems.

nomic models and a height enedofpestinvasionstoprotectforests betweenprediction-and-prevention,

StateandPrivateForestryInvasiveSpeciesActivit ies:

TheStateandPrivateForestry(S&PF)branchofthe stewardshipoftheNation'sforestsandtrees.In broadrangeoftechnicalandfinancialassistancea including state for estry and agriculture agencies, nonprofitorganizations, and landowners.

ForestServiceisafederalleaderin thisrole, State and Private Forestry brings a ndexpertisetoawidespectrumofpartnersfederalagencies, tribes, local governments,

WithinS&PF,ForestHealthProtection(FHP)serves speciesparticularlyinsects, diseases, and invasiv forestentomologyandpathology. Activities includ informationtransfer,technologydevelopment,andp treatments.Presently,about80percentofthefor establishedexoticsandnewintroductions. Afewo borer; Asianlonghornedbeetle; Sirexwoodwasp; su Dutchelmdisease; beechbarkdisease; and white pi S&PFFHPprogramprovideforthefollowingactiviti

aprimaryroleinaddressinginvasive eplants.FHPissupportsexpertiseinboth esurveyandtechnicalassistance, revention, suppression and restoration esthealthstafftimeandresourcesaddress ftheseinclude:gypsymoth;emeraldash ddenoakdeath; hemlockwoollyadelgid; neblisterrust. The authorities within the es:

- Survey, detect, monitor, suppress, and recommend ma nagementalternativestoNational Forests, other federal and triball and managers on insects, diseases and general forest healthconditions.
- Providepesticidecoordination, training, and suppo PlanrevisionandprojectimplementationtoNationa

rtforNEPAdevelopmentforForest lForestsandothers,

- Providetechnicalandfinancialassistancetostate agenciesforsurvey,monitoring,detection,suppres pathogensandplantsaffectingforestandtreereso lands,
- naturalresourceandpestmanagement sionandmanagementofinsects, urcesonnonfederalpublicandprivate
- Carryoutthedevelopmentandevaluationofpromisi toolsforaddressingforesthealthissues,
- ngnewtechnologies,methods,and
- Coordinates within ternal and external scientistst promising new research finding stoim prove theresp
- odemonstrateandtransfertousers onsetoforesthealthproblems, ublicinformationandoutreach
- Coordinatewithotherstodevelopanddisseminatep effortsdesignedtoaddresspestproblems,and

ateownerships, supports development of control methodologies, including

 Provideinvasiveplantassistancetostateandpriv ofstateinvasivespeciescouncils,anddevelopment biologicalcontrols.

Basedonexperiences from recent introductions such emeral dashborer in 2002, and nation wide movement in 2003, S&PF has developed and refined aspecific Invasive Species Response Planintegrates the full programs which include:

as Asianlonghornedbeetlein 1996, of plants infected with Sudden Oak Death responses trategy. The Northeastern Area's complement of S&PF authorities and

- Technical and scientific support to USDAAPHIS and agencies to detect and eradicate known introduction Protection),
- Stateplantpestregulatory sofnewexoticpests(ForestHealth

Forest

- Implementationofearlydetectionandmonitoringa introductionsoutsideoftheknowninfestedareas(
- ctivitiestofindnewpest **ForestHealthProtection**),

ssthelossoftheirtrees(

- Assisting affected communities and homeowners addre **Health Protection, Urban and Community Forestry**
 - managementrecommendations forestslesssusceptibletoexotic ntheirforests(ForestResource
- Helpingstatesandaffectedwoodlandownersdevelop andimplementmanagementactivitiesthatmaketheir pests,andtorecoverfromnewpestintroductionsi
 Management),and
 - dressinvasivespecies(Wood
- Marketingandutilizationofmaterialremovedtoad **EducationandResourceCenter**).

RecommendationActions

<u>Activities to ensure a coordinate deffort</u>: Regular communication between NRS, NA, and R9 is needed to ensure exchange of information about p within vasive species. Currently in the Northeast, communicate about invasive species, but this communicate about invasive species, but this communicate about invasive species, but this communication is of tenrestricted to a small number of individuals dealing with specific pests. No institutionalized processes exist for regular intra-agency exchange of information or interaction between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 lans, actions, and accomplishments dealing all branches of the Forest Service is a library communication between NRS, NA, and R9 land, accomplishments dealing all branches of the Forest Service is a library

Beyondfacilitatingawareness,communicationamong differentForestServicebranchesis neededtocoordinateworktoimproveefficiency,ef fectiveness,orvisibility.Fornewand establishedinvasivespeciesofregulatoryconcern, theForestServicecoordinatesbothinternally

andwithotherstateandfederalpartners(e.g., US Forinvasivespeciesofnon-regulatorysignificance informalbasis.

DAAPHISandUSFishandWildlifeService). ,coordinationfrequentlyoccursonan

Respectiveleadershipfromthedifferentbrancheso with the coordinated direction of invasive species invasive species essarily need to be coordinated on going activities dealing within vasive species am Service. When leadership agrees that greater coord leadership should review, approve, and over see the 'Invasive species' should be a standing agendaitem Furthermore, leadership should have an opportunity structures to ensure that goals are being achieved.

ftheForestServiceshouldremaininvolved programs.Notallactivitiesdealingwith .Leadershipshouldbeawareofplannedand ongthedifferentbranchesoftheForest inationwouldbemutuallybeneficial, implementationoftheproposedactivities. onregionalleadershipteammeetings. toreviewcurrentorrevisedcommunication

<u>Structuretoachieveaction:</u> The Executive Leadership of R9, NA, and NRS appoint a Regional Invasive Species Issues Team (RISIT). Tea msize should be kept to the minimum necessary to provide programmaticand technical expects, diseases, plants, aquatics, and terrest estrials).

RecommendedinitialmembersoftheNortheastRegion alInvasiveSpeciesIssuesTeam(RISIT) include:

R9

- TommyParker-RegionalTESBiologist
- NickSchmal-RegionalAquaticEcologist
- JanSchultz-RegionalBotanistandInvasiveSpecie sProgramManager

NA

- MikeConnor*–Entomologist
- MichelleFrank-InvasivePlants&Pesticides
- JoeO'Brien-Pathology
- NoelSchneeberger-Entomologist

NRS

- JimSlavicek-ResearchBiologist
- CindyHuebner*-ResearchBotanist
- JenniferJuzwik-ResearchPlantPathologist
- TheresePoland-ResearchEntomologist
- RobVenette*-ResearchBiologist
- *Indicatestransitionmember toprovidecontinuitybetweenthedevelopmentand implementation of this process.

RISITCharter: Theteam's charteristoidentify opportunities to species survey and detection, prevention, monitorin education and outreach. The team will convene bi-a activities and identify are as where greater coopera achievement of Forest Service strategic goals for invasive species.

g,andcontrolefforts,restoration,and nnuallytoreviewongoinginvasivespecies tionandcoordinationwouldincrease nvasivespecies.Whereopportunitiesexistfor greatercooperation, the team will be responsible fimplementation plan. The implementation plan will responsibilities, describere sources to be leverage effort), identify anticipated outputs, describeant in timeline. The plan will also document pivotal tech stakeholder groups) who contributed to the developm in implementation activities. RISIT members will place as the stakeholder groups in the stakeholder

ortheproductionofabrief(approx.2page)
describetheissue,outlinerolesand
d(e.g.,existingdata,fieldlocations,personnel
icipatedoutcomes,andprovideaproject
nicalexperts(withinForestServiceor
m entoftheplanandwhowouldbenecessary
articipateonallNationalInvasiveSpecies
e . (NortheastRISITmemberswouldbeasked

OversightofRISITactivitieswillbetheresponsib respectivebranches. These responsibilities fallw

ilityofProgramLeadershipwithinthe ithinthepositionsof:

- $\bullet \quad Jerry Boughton, State and Private-Assistant Direct \\ \quad or NA, Forest Health Programs, \\$
- NancyBerlin, NationalForestSystems-DeputyDire ctorRenewableResources,
- JamesGooder,Research–AssistantDirectorforRes earch.

ThisgroupwillprovideoversighttotheRegionalI executiveleadership.BriefingsofExecutiveleade accomplishmentsshalloccuratleastannually.The organizationalchanges,focusingout-yearresource managementarewithinthisgroup's responsibility. participateinallRISIT meetings.

nvasiveSpeciesIssueTeam,andbriefingsto rshipandreviewofactionplan needforupdatingactionplans,considering needs,andrecommendationsforproactive ProgramLeadershipisencouragedto

EffectiveuseofthisInvasiveSpeciesorganization EasternRegion,NorthernStation,andNortheastern InvasiveSpeciesorganizationalstructureshallbe Thereafter,itwillbeassessedforeffectivenessa twoyears.

alstructurewillrequirethefullsupportof
AreaExecutiveLeadershipTeams.This
assessedforeffectivenessafterthefirstyear.
ndcontinuationbyExecutiveLeadershipevery

<u>Nextsteps(buildingonsuccess)</u>: InJune2006, the Forest Service convenedanati on al conference to address the problem of invasive speci es and discuss regional plans to implement the *National Strategy and Implementation Planfor Invas* ive Species Management.

ManyrepresentativesfromR9,NA,andNRSattended thismeetingandrecommendedseveral areasforgreatercollaboration(AppendixA).The ofspecific,appropriateactivitiestoaddressthes erecommendations.

AppendixA: ActionItemsIdentifiedattheForestServiceNat ionalInvasiveSpecies

Conference(June2006) ¹--Actionitemswereidentifiedaccordingtothe primaryelementsof theNationalStrategyandImplementationPlanforI nvasiveSpeciesManagement(2004).

Although38actionitemswerediscussed,15itemsw rankedasfollowsfrommosttoleastcriticalwithi neachprogramelement.

Topicsoverarchingallprogramelements

1. UseRISITtofacilitatecommunication and identify information (leads: NFS, NRS, S&PF).

2. Developwebsitesorotherinfrastructuretobetter accesstoexistingandnewproducts,tools,informa species(leads:NFS,NRS,S&PF).

3. Placeinvasivespeciesissuesasaregularagendai leadershipteammeetings(leads:NFS,NRS,S&PF).

specificlistofpeoplethatwillshare

linkthethreebranches, allowing organized tion on biology and management of invasive

temat Regional and combined Eastern

PredictionandPrevention

1. Producepestriskassessmentsthatarecentralized,

2. Developvoluntarycodesofconducttoprovidebest retailers,urbanforesters-tiedtotheSt.Louis C

 Developandenforcerulesgoverningaquaticandter forage.Wherefeasible,maketheserulesmandatory timelyandanticipatory(leads:NRS,S&PF).

managementpracticesfornursery,gardeners, CodesofConduct(leads:NFS,NRS,S&PF).

restrialequipmentcleaningandweedfree (lead:NFS).

EarlyDetectionandRapidResponse

1. Providetrainingandtechnologytransferforother speciesidentification, prevention, and control (le

2. Developnewtoolsandtechnologyforbetterdetecti (leads:NFS,NRS,S&PF).

3. Developandimplementstrategytoenlistpublicfor explainwhyquarantineditemsshouldnotbemoved(

staff(allresourceareas)onnon-native invasive ads: NFS, NRS, S&PF).

onofandresponsetonewinvadingspecies

detectionandidentificationofnewpestsand leads:NFS,NRS,SPF).

ManageandMitigate

1. DevelopstandardtemplatesforEnvironmentalAssess mentsandEnvironmentalImpact Statementsacrosstaxa(leads:NFS,S&PF,NRS).

2. ProvideadditionalCooperative-Weed-Management-Area trainingsessions(leads:NFS,S&PF).

3. Encourageacrossownershipemergencyresponseplan development(leads:NFS,S&PF,NRS).

RestoreandRehabilitate

1. Developresistantstocks/geneticresources, seedso urces, natives pecies and describe available resources in a common database (leads: NFS, S&PF, N RS).

2. DescribeBestManagementPracticesfornon-nativei nvasivespeciescontrolprojects(leads: NFS,S&PF,NRS).

3. Provideupdated, standardized guidelines formonito ringsiterestorationat local and regional scales (leads: NFS, S&PF, NRS).

1 ForestServicerepresentativesfromtheNortheastw hoidentifiedandrankedactionitems: JudithL.Antipin(NA),Jerry Boughton(NA),MichaelConnor(NA),MichaelleFrank JessieMicalesGlaser(NRS),CynthiaHuebner(NRS), MelodyKeena(NRS),KathleenShields(NRS),JimS lavicek (NRS),RobertVenette(NRS),TeenaLigman(R9),Ch (R9),NickSchmal(R9),JanSchultz(R9),MikeWe Rabaglia(WO) lker(R9),RichardReardon(WO),YunWu(WO),Rober t

AppendixB: RelatedReferenceDocuments

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Parmesan, C. and Galbraith, H. 2004. Observed impacts of global climate change in the U.S. Pew Cent Global Climate Change, 55pp. Website: http://www.pewclimate.org

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