2011 Supplement
to the
Non-Native Invasive Plant Environmental Assessment of 2005 (SEA)

Chequamegon-Nicolet Invasive Plant Control Project

United States Department of Agriculture - Forest Service

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Introduction and Background

The Non-native Invasive Plant Control project began in 2005 with a decision to treat non-native invasive plants (NNIP or "weeds") over a period of at least a decade. The Forest's NNIP control strategy recognized such a program is long-term in nature and is reassessed for changed conditions and new information about every two years. Amendments in 2007 and 2009 added new invasive plant sites, two herbicides, and biological control for knapweed.

Forest Service policy at FSH 1909.15 §18 direct us to periodically review environmental documentation of on-going projects to determine if correction, supplementation, or revision is needed. New information or changed conditions found during such reviews may lead to reconsideration of the original decision. This supplement to the 2005 NNIP Environmental Assessment (EA) documents the findings of our review. It serves to disclose changed conditions of NNIP spread and introduction.

To respond to changed conditions and new information regarding invasive plants, we are proposing to amend our 2005 decision in order to treat an additional 807 sites. This Supplement to the 2005 EA discloses the locations and conditions of these additional sites. It is not independent of the 2005 EA, but serves to supplement the original analysis (USDA 2005a).

Highlights of this supplemental assessment:

- Proposed new NNIP sites (found in 2009 and 2010)
- Discloses public and other agency comments on the proposal, as whether any new issues have surfaced. Issues affected by controlling additional sites include:
  1. Aquatic systems, Soils, and Hydrology
  2. TES species - especially plants

  All other issues analyzed in the 2005 decision and its supplements in 2007 and 2009 (Human Health & Safety, Cultural/Heritage Resources, Native Plant Communities - non-target plants) remain the same. There are no changes that would affect these issue areas.
- Disclosure of additional sites (table Appendix A & maps Appendix B)
- Disclosure of additional effects if any.

Proposed Action and Purpose and Need

The Chequamegon Nicolet National Forest proposes amend the 2005 Invasive Plant Control Project Decision Notice to control NNIP on 807 new sites located across 393 additional acres. Control actions would occur annually over the next decade on sites prioritized through the Forest NNIP Strategy. The additional sites are identified on attached site tables and maps found in Appendices A and B. All applicable requirements and mitigation measures identified in the original decision would be applied to additional actions (USDA 2005b, Decision Notice and Finding of No Significant Impact).

The purpose and need for action on additional sites remains identical to that found in the original 2005 decision (see USDA 2005b, Decision Notice and Finding of No Significant Impact). This amendment is needed because we detected new non-native invasive plant sites.

Scope

The scope of this proposal is to determine whether or not to amend the 2005 Decision Notice to treat additional NNIP infestation sites. Actions found in the original decision and Finding of No Significant Impact for the CNNF Non-native Invasive Plant Control Project remain in place; the 2005 decision is not subject to appeal. This supplement analyzes the effects of treating the additional 807 weed sites. A preliminary analysis reveals that the potential effects of these additional actions are essentially the same as described in the 2005 project. Since no new effects are anticipated, no new environmental assessment is needed.

Public Involvement

Other agencies and groups concerned with invasive plant issues such as Wisconsin Department of Natural Resources, Great Lakes Indian Fish and Wildlife Commission (GLIFWC), and local Weed Cooperatives were contacted. Some new sites were found by alert members of the public and added to our database. A letter and brief project update was sent to the members of the public who commented on the 2005 project. This letter was also sent to Great Lakes Tribal biologists and the WI State invasive plant botanist. Five comments were received in reply all favorable.

Issues

We examined the 2005 Environmental Assessment to see what would change by adding new sites. Based on issue areas from the original assessment we identified potential actions that would trigger mitigations. We determined that for the new sites we needed to analyze:

1. if TES plants and animal sites would be affected by actions;
2. if any organic farms near the new sites need a buffer from herbicide;
3. which sites were near water or had a high water table where we needed to consider special herbicide protocols.
4. European honeybees depending on invasive plants for nectar

What does not change from the 2005 Environmental Assessment:

- Effects to Native Plant Communities. The proposed activities on the new sites are the same as described in the original project, effects to native plant communities would be as described in the Environmental assessment (USDA 2005a 4.2.2). In summary, direct and indirect effects would be minimized due to project design criteria. Manual/mechanical methods and herbicide may kill some non-target plants but the overall effect would be positive because it would prevent the loss of species diversity due to uncontrolled NNIP spread (USDA 2005a pg 31). Cumulative effects would be similar, as the combined incremental effects would still remain very small (a decade of treatment on ~0.1% of Forest's land base). The additional acres if negatively impacted, would contribute only a small adverse incremental effect when combined with impacts of other past, present and reasonably foreseeable future activities.
- Human Environment Health and Safety (EA 3.4.1 and 4.1). There would be no significant direct or indirect effects to human health and safety. Cumulatively there would be no additional risk when combined with past, present, and reasonably foreseeable future similar activities even if all of the NNIP sites were treated with herbicide (which they are not) because overall amounts of herbicide used remains the same each year and the chemicals chosen are deemed safe by the EPA and break down quickly in the environment. The Herbicide Labels and Material Safety Data Sheets consulted are the most current. Federal law requires following the label directions when applying herbicide.

Existing Condition of Affected Environment

This section discusses the change in conditions and new information available since the original EA was prepared. Other conditions not discussed did not change from the original EA. This section establishes the context in which effects from the additional treatments (disclosed in the following Environmental Consequences section) are evaluated.

The desired forest condition is to reduce, minimize, or eliminate invasive plants by methods that are effective yet the least harmful to non-target organisms and the environment.

When the Invasive Plant Control Project was initiated, we anticipated that new sites and new species of NNIP would be found due to increased search effort. Crews have been treating sites as well as conducting surveys and monitoring forest projects for invasions. As a result, 807 new NNIP sites were located and entered into

the Forest database in 2009 and 2010 (Figure 1). Note that it is appropriate to describe treating *infested acres* rather than *gross acres* (larger areas with patches of weeds). This is because actions would occur only on the patches of weeds not on the areas in between. The additional 393 acres increases the forest infested area to 2,200 acres (about 0.1% of National Forest land). Most of these new sites are small: 93% are less than 1 acre and only 6 are larger than 10 acres (CNNF data). Most of the sites are along roads and other disturbed sites. Appendix A is a list of the NNIP sites found in 2009 to 2010. Appendix B is maps of these new sites. The affected area is within 11 Counties in northern Wisconsin and includes the entire Chequamegon-Nicolet National Forest.

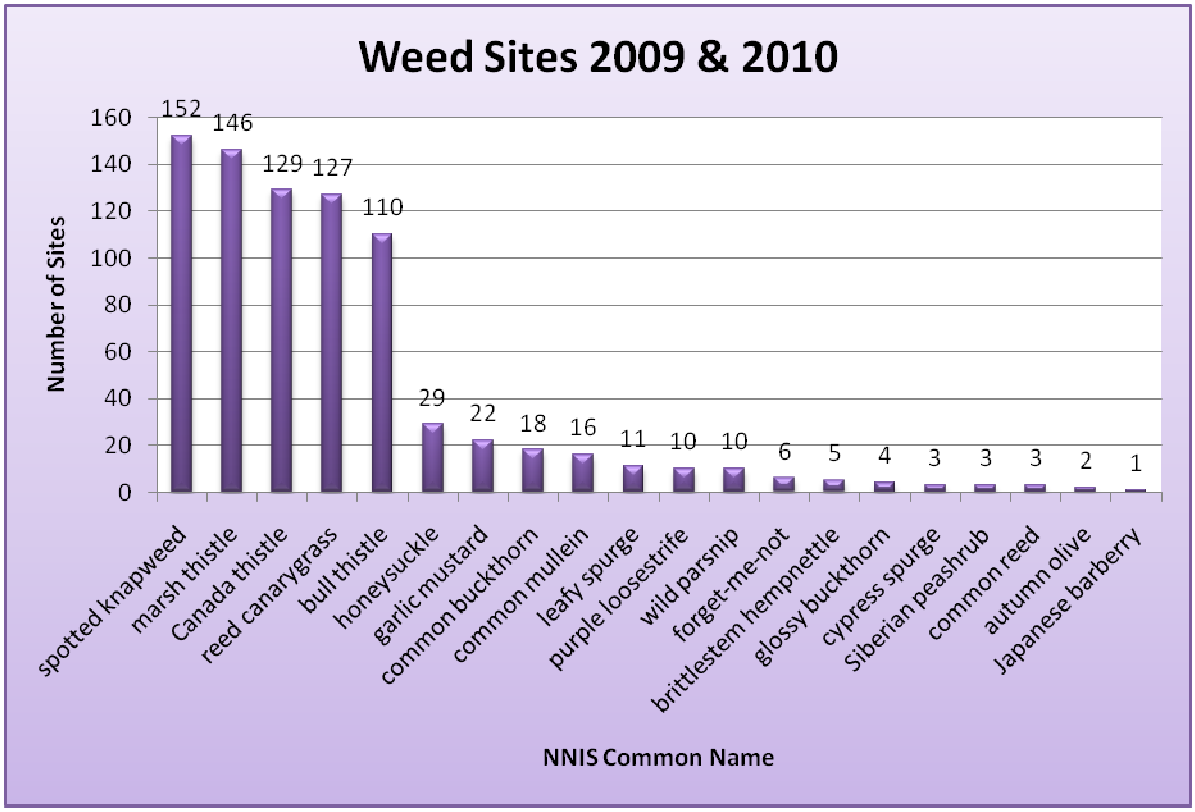

Figure 1 NNIP sites added to database since in 2009 & 2010

Threatened, Endangered, and Regional Forester Sensitive Species:
In the Biological Evaluation for adding sites to this project, the effects were analyzed for five Federally Threatened or Endangered Species and 81 Regional Forester Sensitive Species (RFSS). A total of 27 animals and 54 plants were analyzed a biological evaluation (USDA Forest Service 2011a and 2011b). The affected environment for these analyses included the entire Chequamegon-Nicolet National Forest because NNIP locations are scattered across the Forest. Weed treatment actions on lands of other ownership were considered in the analysis but such information is limited. Due to the distribution of the treatments and their limited spatial extent, effects to areas outside of the Forest boundary are not anticipated.

There are no **federally threatened** plant or animal sites within 100 feet of proposed actions. There are six **RFSS** plants sites and three **RFSS** animal sites within 100 feet of invasive plant sites as listed in Tables 1 and 2 below.

Table 1 RFSS plants within 100 feet of an Invasive Plant treatment site

RFSS Plant Name	Project (weed) Site Numbers	Weed Common Name

Botrychium oneidense	913039691, 9130309692	*Centaurea stoebe, Verbascum thapsus*
Botrychium oneidense	9130410100	*Alliaria petiolata*
Ceratophyllum echinatum	9130210121	*Lythrum salicaria*
Botrychium mormo	9130410031	*Cirsium palustre*
Panax quinquefolius	9130410031	*Cirsium palustre*
Juglans cinerea	9130409644, 9130409648, 91309646	*Cirsium palustre, Cirsium vulgare, Phalaris arundinacea*

Table 2 RFSS animals within 100 feet of an Invasive Plant treatment site

RFSS Animal	animal observation date	Weed site number	Weed common name
Tawny Crescent	6/1/2003	09130510012	autumn olive
Green-faced Clubtail	6/1/2003	09130209127	spotted knapweed
West Virginia White	6/1/1992	09130410057	Canada thistle

Organic Farms: There are no organic farms near any of the additional NNIP sites based on a list provided by the National Organic Program. This organization provides standards for a green buffer of sufficient size or other features to prevent unintended contact by prohibited substances (chemical herbicides) applied to adjacent land (NOP 2005). A buffer of 100 feet would be appropriate since control actions have no effect beyond the 68 foot *zone of influence* (USDA 2005 NNIP EA pg 27). All new NNIP sites have been reviewed for proximity to organic farms and none are even within 3 miles. Because of the great distance from NNIP site to be treated, there would be no direct or indirect effects from this project on any organic farms and **no further analysis is needed**.

Aquatic Systems, Soils, and Hydrology: The Forest Hydrologist reviewed the new sites and the selected treatments. In this report three elements of aquatic species, water, and soil quality that may be affected by weed treatment actions were addressed. They are 1) water and soil quality may be degraded be contamination from herbicide chemicals; 2) water and soil quality may be degraded by NOT treating NNIP plant infestations; and 3) aquatic species may be impacted by chemical herbicides.

Honey bees: Some European honeybees raised for honey have been known to nectar on invasive plants, especially knapweed, within their territories. Beekeepers in Michigan's Upper Peninsula where knapweed is more abundant have raised this as an issue for the Hiawatha National Forest.

Other Conditions:

- The number of sites and acres of infestation recorded in the Forest database varies year by year as NNIP are eliminated or new populations are found.
- The treatment methods needed & available in the 2005 EA and the 2009 supplement are still suitable (USDA 2009). The chemical herbicides and bio-control insects listed in the Project and its supplements are still approved for same uses. There has been no new science to indicate efficacy, health risks, or environmental risks of the chemicals analyzed have changed.

Environmental Consequences

Effects on Threatened, Endangered, and Regional Forester Sensitive Species:

A Biological Evaluation (BE) of control actions on 807 new NNIP sites was prepared (USDA Forest Service 2011a and 2011b) to determine effects on viability and habitat of Federally Threatened or Endangered (TES) and Regional Forester Sensitive Species (RFSS). All herbicides kill plants so non-target effects to plants from spot-sprayed herbicide are plausible but limited due to protections provided by project design criteria (USDA Forest Service 2005 2.6.1).

TES and RFSS Plants

To analyze effect of this project a *zone of influence* boundary was calculated as the maximum possible distance that any control action could have any measurable effect and would include mowing, pulling, and herbicide use. The values for herbicide over-spray were estimated at 68 feet if using a backpack sprayer with the droplet size at 100 microns and a wind speed of 15 miles per hour. (Note that project criteria require wind speeds of no more than 10 mph making the overspray zone conservative. In addition, to be most effective, droplet size from a backpack sprayer should be 200-300 microns and would not drift as far as smaller droplets.) The mapped invasive plant sites were analyzed using a **100 foot buffer** (to allow for mapping error) using ArcMap software to identify potential overlap with TES and RFSS plants.

Six RFSS plant sites are within the 100 foot buffer (table 1 above). The BE recommends using hand pulling, or other mechanical methods at these sites near the RFSS plants to avoid negative impact.

Some of the action sites are within 100 feet of forest stands that have *habitat* that may be suitable for RFSS plants. Due to infestation, an area occupied by NNIP is generally no longer suitable for rare plants. In addition, the area occupied by NNIP tends to be on the edge of appropriate habitat where conditions are usually not ideal for the rare plants. Therefore, cursory surveys conducted by botanists to find the NNIP plants are sufficient and no further surveys for rare plants were recommended in the biological evaluation.

TES and RFSS Animals

Although the majority of sensitive animals on the CNNF have the potential to wander through a proposed treatment area, there is no available evidence to suggest proper application of herbicides represents a direct effect on them (USDA Forest Service 2011b). Herbicides are designed to affect the physiology of plants. As a result, direct effects were not discussed in the BE for most of the listed animals. However, considering indirect impacts, there are a few animals that warrant an analysis of potential effects, either because the animals are extremely sensitive, or because there is a greater potential for some interaction between them and the proposed action (Table 3).

Examples of potential indirect conflicts:

- Food plant may have herbicide on it when consumed
- Animal may be relying on the NNIP plant for food
- Insect may detrimentally rely on NNIP plant for some phase of its reproduction
- NNIP plant may crowd out desirable food plants

The most likely example of negative interaction would be the West Virginia white butterfly. The interaction is not with treatment actions but by the mere presence of garlic mustard. The butterfly is known to oviposit on garlic mustard instead of native mustards but the hatching larvae cannot survive on the garlic mustard. Note that there is no new garlic mustard near any known populations of West Virginia white so there would be no direct or indirect impact by failing to control garlic mustard in the near future. The other listed insects may be sensitive to herbicide but control actions generally occur in a distant place and/or at a time when the butterflies are not present on the land (USDA Forest Service 2011b).

The species discussed in detail in the BE are listed in Table 3 along with a determination of effect/impact and summary of reason for the determination.

Table 3 Summary of Animal Biological Evaluation findings

Species	Common name	determination	reasoning
Federal T & E			
Lynx Canadensis	Canada lynx	No effect	*no occurrence on forest, NNIP not forage for prey*

Haliaeetus leucocephalus	Bald eagle	No effect	*actions will not reduce habitat or prey*
RFSS species			
Glyptemys insculpta	wood turtle	No impact	*unlikely to be affected by herbicide or herbicide contaminated prey*
Incisalia henrici	Henry's elfin butterfly	No impact	*may be sensitive to herbicide but low chance of contact*
Lycaeides idas nabokovi	northern blue butterfly	No impact	*may be sensitive to herbicide but low chance of contact*
Oeneis chryxus	Chryxus arctic butterfly	No impact	*may be sensitive to herbicide but no occurrences near treatment sites. reducing NNIP would not affect nectar or host plants*
Phyciodes batesii	tawny crescent butterfly	No impact	*may be sensitive to herbicide but low chance of contact -**1 treatment site near 1 butterfly occurrence**. Abundant habitat available; incidental loss of host plants not measurable*
Pieris virginiensis	West Virginia white butterfly	No impact	*may be sensitive to herbicide. **1 site near 1 NNIP site**- but would not be present during summer treatment of NNIP*

Summary for TES Plants

If the control measures are implemented on the 807 proposed sites according to the Methods and Treatment statement and Herbicide label directions, direct and indirect impacts to RFSS will be minimized and will not lead toward federal listing or limit the viability and habitat of the RFSS known to occur in the project area. The additional acreage (393 ac) where actions would take place represents an increase in overall project treatment area, but in the context of the entire national forest, and that not all acreage would be treated in any one year, this still represents virtually the same cumulative level of treatment (0.1% of the Forest's land base) disclosed in the original EA. We assume that removing NNIP from any habitat will improve conditions for TES plants, not make it unsuitable. There are only six of the analyzed RFSS plants within 100 feet of a treatment (table 1).

Summary for TES Animals

There are three RFSS animal (insect) occurrences within 100 feet of a potential weed treatment site (Table 2). There will be No Impact to RFSS or T & E animals for the reasons listed below:

- Project sites are in locations where there has been disturbance in the past, and there is ongoing disturbance from public use
- The short-term nature of the work would not include an unacceptable amount of additional disturbance
- Low toxicity Herbicide application requires visualizing the weed plant and insects can be avoided
- Short term negative impacts from the herbicides used have not been documented from past projects
- Long term effects are likely to be beneficial due to favoring native plants over non-native invasives

Effects on Soil and Water Resources:

In April 2011, the Forest Hydrologist reviewed the new sites. There are 224 of the additional sites located in areas of high water table or very permeable soil with ground water within the leach zone for *clopyralid* herbicide. In summary, the Soils Hydrology and Aquatic Organism Resource Report recommends:

1. For sites where the water table is close to the surface or the soil is extremely permeable, the herbicide *clopyralid* would not be used (Appendix C is a list of these sites).
2. For sites near open water, only herbicides formulated as safe for use near water would be used.

Soils and hydrology: Herbicide movement by drift, runoff, and leaching through the soil is a concern with clopyralid so it would not be used on sites with a high water table (see Appendix C). Long term effects to soil from any of the herbicides are not anticipated because appropriate application techniques specified on the label provide for minimal impacts to the environment.

Water quality: Mechanical and biological control methods would have little potential to directly or indirectly affect water quality. Any disturbance of soil that could cause suspended sediment in water of wetlands or riparian area would be brief and localized. Herbicides will not be used over water at this time. When herbicides are used according to label specifications, no substantial long-term impacts to groundwater or surface waters are expected (USDA Forest Service 2011c).

Implementation of the proposed action on these 807 new sites would have no substantial adverse impacts to soils, hydrology, or aquatic organisms. The additional acreage (393 ac) where actions would take place represents an increase in overall project treatment area, but in the context of the entire national forest, and that not all acreage would be treated in any one year, this still represents virtually the same cumulative level of treatment (0.1% of the Forest's land base) disclosed in the original EA. There are no unique, unusual, or differing soil, hydrologic, or aquatic conditions in the additional sites than considered in the original EA. Positive effects of the proposed action are expected as effects would help to restore native plant communities and diversity while reducing soil erosion (USDA Forest Service 2011c).

Honey bees: Invasive plant patches on the CNNF are small and larger sites are often linear along roads. It is unlikely these patches are a major nectaring source for domestic European honeybees. No impact expected.

Conclusions

Adding 807 sites (393 infested acres) to the Nonnative Invasive Plant Control Project does not change direct, indirect, or cumulative effects since annual treatments will be about the same.

Although the goal is to treat most NNIP sites over the next decade, actual annual control work is based upon priority areas and the predicted threat by the NNIP species present. A particular site may require annual control the first year or two, then less frequent treatment from there on. Delayed germination of some NNIP seed may require follow-up treatments for more than 5 years. Monitoring of this project has shown that herbicide treatment, if used, is most efficacious in the first one to three years followed in subsequent years with hand pulling. The additional sites are not anticipated to significantly increase the level of annual treatments (we are able to treat about 300-800 sites per year). The annual NNIP target is determined by Regional direction, funding, and availability of personnel. With the addition of the new sites the Forest now has about 4,000 sites on 2,200 infested acres. This translates into a small portion of land in the National Forest (about 0.1%) to be treated over a decade.

As stated in the original Decision Notice the integrated pest-management approach designed into the project ensures that results would meet the purpose and need with no unacceptable effect to forest resources (USDA 2005b).

References:

USDA Forest Service. 2005a. Environmental Assessment, Chequamegon-Nicolet Invasive Plant Control Project, July 2005. Available at >> http://www.fs.fed.us/r9/cnnf/natres/eis/so/NNIP_ea/index.html

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USDA Forest Service. 2007. Decision Amendment for the Chequamegon-Nicolet Invasive Plant Control Project, July 2005.

USDA Forest Service. 2009. Decision Amendment for the Chequamegon-Nicolet Invasive Plant Control Project, July 2005.

USDA Forest Service. 2011a. Biological Evaluation -plants for the Chequamegon-Nicolet Invasive Plant Control Project Supplemental Environmental Assessment. Prepared by Leesha Howard-McCauley biologist.

USDA Forest Service. 2011b. Biological Evaluation -animals for the Chequamegon-Nicolet Invasive Plant Control Project Supplemental Environmental Assessment. Prepared by Marjory Brzeskiewicz reviewed by Tom Matthiae, biologist.

USDA Forest Service. 2011c. Soils Hydrology and Aquatic Organism Resource Report (for the Invasive Plant Control Project Chequamegon-Nicolet National Forest, March 2011 prepared by Sara Eckardt, hydrologist.

NOP 2011. National Organic Program Regulations, Definitions. Available online at: http://www.ams.usda.gov/nop/indexIE.htm

Appendix A - Non-native invasive Plant Sites list CNNF - 2011 Supplement

Medford/Park Falls District:

M/PF Site #	Common Name	Infested acres
04487	purple loosestrife	8.4364
072	spotted knapweed	6.6034
076	spotted knapweed	0.2529
09003	common mullein	0.2531
09004	bull thistle	0.0506
09005	bull thistle	0.1506
09006	Canada thistle	0.0353
09007	spotted knapweed	0.2516
09008	spotted knapweed	0.2514
09009	common reed	0.004
09010	spotted knapweed	0.0649
09011	Canada thistle	0.0057
09012	honeysuckle	0.0006
09014	honeysuckle	0.0004
09015	honeysuckle	0.0007
09016	Canada thistle	0.4323
09017	common mullein	0.0045
09101	spotted knapweed	0.6559
09103	brittlestem hempnettle	3.4967
10100	honeysuckle	0.0273
10101	wild parsnip	3.0566
10102	garlic mustard	0.5339

Great Divide District:

GD Site #	Common Name	Infested acres
09100	garlic mustard	0.0008
09101	garlic mustard	0.0078
09102	spotted knapweed	0.0006
09103	spotted knapweed	0.0087
09105	true forget-me-not	0.1451
09106	spotted knapweed	0.9062
09107	common buckthorn	0.7163
09119	spotted knapweed	0.1697
09121	spotted knapweed	1.5133
09122	spotted knapweed	34.1249
09123	spotted knapweed	0.2395
09124	true forget-me-not	0.087
09125	Canada thistle	0.4082
09126	spotted knapweed	40.4279
09127	spotted knapweed	68.746
09128	Canada thistle	0.5881
09129	spotted knapweed	0.8839
09130	Canada thistle	0.0497
09131	bull thistle	0.12
09132	spotted knapweed	0.4388
09133	honeysuckle	0.7163
09134	Siberian peashrub	0.7163
09135	spotted knapweed	1.9128
09136	spotted knapweed	0.6261
09137	bull thistle	0.0289
09138	spotted knapweed	0.1764
09139	common mullein	1.4385
09141	bull thistle	1.5195
09142	Canada thistle	2.7237
09143	common mullein	3.5809
09144	bull thistle	3.0755
09145	Canada thistle	0.2812
09146	Canada thistle	0.1692
09147	common mullein	1.088
09148	Canada thistle	0.0624
09149	common mullein	1.9683
09150	purple loosestrife	0.1742
09152	purple loosestrife	0.0528
09153	Canada thistle	0.8209
09154	Canada thistle	0.1446
09155	glossy buckthorn	0.2963
09156	Canada thistle	0.5726
09157	leafy spurge	0.1663
09158	common mullein	2.926
09159	bull thistle	0.073
09160	honeysuckle	0.3898
09162	Canada thistle	1.2671
09163	bull thistle	0.1342
09164	Canada thistle	0.1356
09165	reed canarygrass	0.0799

GD Site #	Common Name	Infested acres
09166	Canada thistle	0.0302
09167	honeysuckle	0.092
09168	Canada thistle	0.0359
09169	spotted knapweed	0.1217
09171	Canada thistle	0.2143
09172	common mullein	2.0481
09173	Canada thistle	0.7747
09174	bull thistle	0.7584
09175	Canada thistle	0.2119
09176	Canada thistle	0.5708
09177	common mullein	0.5554
09178	common mullein	1.8821
09179	common buckthorn	0.6739
09180	glossy buckthorn	9.8228
09181	Siberian peashrub	0.8716
10101	true forget-me-not	0.0491
10103	bull thistle	0.0031
10104	true forget-me-not	0.0149
10105	common buckthorn	0.0029
10106	honeysuckle	0.0219
10107	common buckthorn	0.0031
10108	Canada thistle	0.2211
10109	spotted knapweed	0.4476
10110	Canada thistle	0.1958
10112	bull thistle	0.1958
10118	spotted knapweed	0.7063
10119	spotted knapweed	0.8433
10120	spotted knapweed	0.6003
10121	purple loosestrife	10.9822
10122	honeysuckle	0.0017
10123	spotted knapweed	0.3949
10124	spotted knapweed	0.1815
10125	purple loosestrife	0.0301
10126	purple loosestrife	0.1839
10127	purple loosestrife	0.1436
10128	spotted knapweed	0.8024
10129	Canada thistle	0.0605
10130	brittlestem hempnettle	0.2995
10132	purple loosestrife	0.0907
10133	common buckthorn	0.1092
10134	honeysuckle	0.0014
10135	Canada thistle	0.0162
10136	spotted knapweed	0.1607
10137	brittlestem hempnettle	0.383
10138	spotted knapweed	2.5436
10141	common mullein	0.8553
10142	reed canarygrass	3.688
10143	brittlestem hempnettle	0.3871
10144	brittlestem hempnettle	0.0678
10145	Canada thistle	0.3759
10146	common mullein	1.4626
10147	spotted knapweed	0.1054
10148	reed canarygrass	0.1904
10149	garlic mustard	1.169
10150	Canada thistle	0.2627
10152	reed canarygrass	0.2493
10153	Canada thistle	0.3368
10154	Japanese barberry	4.9432
10155	honeysuckle	0.0024
10156	garlic mustard	2.3469

Eagle River/Florence District:

ER/FL Site #	Common Name	Infested acres
09001	garlic mustard	0.0817
09002	garlic mustard	0.0055
09003	marsh thistle	0.4255
09005	marsh thistle	0.0119
09008	Canada thistle	0.0232
09009	spotted knapweed	0.0035
09011	Canada thistle	0.0698
09012	marsh thistle	0.0038
09013	marsh thistle	0.0161
09014	reed canarygrass	0.0014
09015	reed canarygrass	0.0251
09016	Canada thistle	0.2147
09018	spotted knapweed	0.5712
09019	marsh thistle	0.014
09020	Canada thistle	0.2357
09022	Canada thistle	0.0088
09023	marsh thistle	0.0882
09024	spotted knapweed	6.3017
09025	Canada thistle	0.0024
09026	marsh thistle	0.0045
09029	bull thistle	0.0094
09030	marsh thistle	0.0475
09032	marsh thistle	0.0253
09034	Canada thistle	0.0242
09036	Canada thistle	0.0055
09037	common buckthorn	0.0022
09038	reed canarygrass	0.0668
09039	reed canarygrass	1.7707
09040	bull thistle	0.2213
09041	spotted knapweed	0.0628
09042	bull thistle	0.0078
09043	marsh thistle	0.0078
09044	bull thistle	0.1691
09045	spotted knapweed	0.6766
09046	marsh thistle	0.6355
09047	bull thistle	0.3178
09162	wild parsnip	0.0025
09164	marsh thistle	0.0006
09165	marsh thistle	0.0107
09167	wild parsnip	0.0105
09168	Canada thistle	0.0007
09169	marsh thistle	0.0003
09172	marsh thistle	0.0005
09174	marsh thistle	0.0483
09175	reed canarygrass	0.0076
09176	marsh thistle	0.0727
09662	marsh thistle	0.0004
09663	marsh thistle	0.0014
09664	marsh thistle	0.0304
09665	Canada thistle	0.0215

ER/FL Site #	Common Name	Infested acres
09666	Canada thistle	0.0818
09667	bull thistle	0.0003
09668	Canada thistle	0.0006
09669	Canada thistle	0.0002
09670	marsh thistle	0.0004
09671	marsh thistle	0.0024
09672	bull thistle	0.0026
09673	marsh thistle	0.0096
09674	marsh thistle	0.0002
09675	spotted knapweed	0.0192
09676	marsh thistle	0.0512
09677	spotted knapweed	0.0168
09678	marsh thistle	0.0142
09679	reed canarygrass	0.0055
09680	spotted knapweed	0.0012
09683	spotted knapweed	0.8152
09685	common mullein	0.5379
09688	spotted knapweed	2.7351
09691	spotted knapweed	0.36
09692	common mullein	0.368
10001	garlic mustard	0.1195
10002	marsh thistle	0.0802
10003	marsh thistle	1.4606
10004	marsh thistle	0.7296
10005	wild parsnip	1.0443
10006	garlic mustard	0.0161
10007	marsh thistle	2.5742

Lakewood/Laona District:

LK/LA Site #	Common Name	Infested acres
09101	garlic mustard	0.0028
09102	garlic mustard	0.0014
09103	garlic mustard	0.0037
09104	garlic mustard	0.001
09105	garlic mustard	0.533
09106	garlic mustard	0.0105
09107	garlic mustard	0.0012
09108	garlic mustard	0.0325
09109	honeysuckle	0.0019
09110	marsh thistle	0.0253
09111	bull thistle	0.0004
09112	spotted knapweed	0.0001
09113	bull thistle	0.0001
09114	wild parsnip	1.1003
09115	Canada thistle	0.1965
09116	marsh thistle	0.0043
09117	marsh thistle	0.0218
09123	marsh thistle	0.0003
09124	Canada thistle	0.4515
09125	marsh thistle	0.0001
09126	bull thistle	0.0671
09127	bull thistle	0.0738
09128	reed canarygrass	0.2299
09129	spotted knapweed	0.0001
09130	marsh thistle	0.0003
09131	Canada thistle	0.0184

LK/LA Site #	Common Name	Infested acres
09132	honeysuckle	0.0003
09133	common reed	0.0004
09134	honeysuckle	0.0002
09135	reed canarygrass	2.3229
09136	honeysuckle	2.1976
09137	marsh thistle	0.0107
09138	marsh thistle	0.0005
09139	marsh thistle	0.0004
09140	honeysuckle	0.0008
09141	field forget-me-not	0.0026
09142	marsh thistle	0.0008
09143	bull thistle	0.0002
09144	bull thistle	0.0191
09145	leafy spurge	0.02
09147	spotted knapweed	0.0025
09148	bull thistle	0.0027
09149	Canada thistle	0.0031
09150	reed canarygrass	0.0597
09151	spotted knapweed	0.0043
09153	spotted knapweed	0.0042
09154	spotted knapweed	0.0052
09155	spotted knapweed	0.5195
09156	bull thistle	0.071
09157	reed canarygrass	0.091
09158	bull thistle	0.2906
09159	spotted knapweed	0.0012
09160	reed canarygrass	1.0384
09161	reed canarygrass	0.0689
09177	reed canarygrass	0.0239
09179	marsh thistle	0.0003
09180	reed canarygrass	0.0366
09181	spotted knapweed	3.5841
09182	reed canarygrass	0.0136
09183	reed canarygrass	0.0011
09184	bull thistle	0.0002
09186	cypress spurge	0.0218
09187	cypress spurge	0.0118
09188	leafy spurge	0.0124
09189	leafy spurge	0.0042
09190	purple loosestrife	0.0056
09191	marsh thistle	0.4091
09192	reed canarygrass	0.7906
09193	bull thistle	0.0691
09194	marsh thistle	0.2879
09195	reed canarygrass	0.0013
09196	bull thistle	0.2104
09197	marsh thistle	0.2114
09198	marsh thistle	0.0875
09199	marsh thistle	0.1335
09200	Canada thistle	0.0212
09201	marsh thistle	0.0196
09202	reed canarygrass	0.0112
09203	marsh thistle	0.0044
09204	purple loosestrife	0.0019
09205	bull thistle	0.0168
09206	marsh thistle	0.6002
09207	marsh thistle	0.1783

LK/LA Site #	Common Name	Infested acres
09208	reed canarygrass	1.0073
09209	bull thistle	0.0097
09220	reed canarygrass	0.026
09221	marsh thistle	0.0256
09222	marsh thistle	0.0415
09223	bull thistle	0.0816
09224	reed canarygrass	0.0027
09225	spotted knapweed	11.7629
09226	bull thistle	0.0013
09227	reed canarygrass	0.0013
09228	Canada thistle	0.001
09229	bull thistle	0.0014
09230	reed canarygrass	0.007
09231	bull thistle	0.0007
09232	reed canarygrass	0.0052
09233	spotted knapweed	0.1036
09234	reed canarygrass	0.0016
09235	spotted knapweed	2.5526
09236	bull thistle	0.0794
09237	bull thistle	0.0544
09238	bull thistle	0.1905
09239	reed canarygrass	0.0021
09240	reed canarygrass	0.0049
09503	spotted knapweed	0.0011
09504	reed canarygrass	0.0015
09505	spotted knapweed	0.0005
09508	reed canarygrass	0.0661
09509	reed canarygrass	0.0042
09510	spotted knapweed	0.0041
09515	reed canarygrass	0.0193
09517	reed canarygrass	0.0303
09518	spotted knapweed	0.0066
09519	reed canarygrass	0.001
09520	spotted knapweed	0.0298
09521	reed canarygrass	0.0081
09522	reed canarygrass	0.0029
09524	leafy spurge	0.0036
09525	reed canarygrass	0.0087
09527	leafy spurge	0.008
09528	reed canarygrass	0.0023
09529	spotted knapweed	0.0002
09531	reed canarygrass	0.0034
09534	reed canarygrass	0.0001
09535	reed canarygrass	0.0002
09536	Canada thistle	0.0001
09537	reed canarygrass	0.0002
09538	reed canarygrass	0.0006
09539	reed canarygrass	0.0015
09540	reed canarygrass	0.0016
09542	Canada thistle	0.0007
09543	reed canarygrass	0.0007
09544	Canada thistle	0.0004
09546	Canada thistle	0.0002
09547	spotted knapweed	0.0003
09548	Canada thistle	0.0002
09549	spotted knapweed	0.0176
09550	spotted knapweed	0.0095

LK/LA Site #	Common Name	Infested acres
09551	spotted knapweed	0.0007
09553	spotted knapweed	0.3174
09554	reed canarygrass	0.0741
09555	reed canarygrass	0.0136
09556	reed canarygrass	0.0021
09557	reed canarygrass	0.1491
09558	reed canarygrass	0.0014
09560	spotted knapweed	2.152
09565	marsh thistle	0.0019
09566	spotted knapweed	0.0001
09571	marsh thistle	0.0003
09573	marsh thistle	0.0001
09576	reed canarygrass	0.0755
09577	marsh thistle	0.0239
09579	reed canarygrass	0.0001
09580	reed canarygrass	0.0001
09581	spotted knapweed	0.0103
09582	marsh thistle	0.0001
09584	marsh thistle	0.0419
09585	reed canarygrass	0.0418
09586	spotted knapweed	0.0868
09587	reed canarygrass	0.0505
09588	spotted knapweed	0.0256
09590	bull thistle	0.0001
09592	reed canarygrass	0.0794
09597	bull thistle	0.0006
09598	marsh thistle	0.1258
09599	reed canarygrass	0.0011
09600	bull thistle	0.0001
09601	spotted knapweed	0.0195
09602	reed canarygrass	0.0149
09603	Canada thistle	0.0087
09604	reed canarygrass	0.0065
09605	spotted knapweed	0.0122
09606	reed canarygrass	0.0336
09607	spotted knapweed	0.0217
09609	spotted knapweed	0.0114
09610	reed canarygrass	0.0051
09611	Canada thistle	0.0054
09612	Canada thistle	0.047
09613	marsh thistle	0.0161
09614	reed canarygrass	0.0009
09617	reed canarygrass	0.0002
09618	spotted knapweed	0.0129
09619	bull thistle	0.0004
09622	reed canarygrass	0.0039
09628	marsh thistle	0.0002
09631	spotted knapweed	0.0076
09633	spotted knapweed	0.0004
09634	marsh thistle	0.0001
09636	reed canarygrass	0.0037
09640	reed canarygrass	0.0025
09641	marsh thistle	0.002
09642	spotted knapweed	0.0079
09643	spotted knapweed	2.4322
09644	marsh thistle	0.1555
09645	bull thistle	0.124

LK/LA Site #	Common Name	Infested acres
09646	reed canarygrass	0.1334
09647	marsh thistle	0.5965
09648	Canada thistle	0.3092
09649	spotted knapweed	0.2962
09650	bull thistle	0.2896
09651	honeysuckle	0.0096
09652	Canada thistle	0.0057
09654	bull thistle	0.1401
09655	spotted knapweed	0.0001
09656	marsh thistle	0.0003
09657	honeysuckle	0.0005
09658	marsh thistle	0.0114
09659	spotted knapweed	0.0005
09681	Canada thistle	0.0004
09682	spotted knapweed	0.0517
09683	honeysuckle	0.002
09684	honeysuckle	0.7328
09685	honeysuckle	1.297
09686	bull thistle	0.0003
09687	bull thistle	0.0003
09688	Canada thistle	0.0003
09689	marsh thistle	0.0003
09690	bull thistle	0.0003
09691	bull thistle	0.0004
09692	spotted knapweed	0.0035
09693	honeysuckle	0.119
09694	Canada thistle	0.0015
09696	reed canarygrass	0.0015
09697	bull thistle	0.0002
09698	bull thistle	0.0006
09699	marsh thistle	0.1052
09700	reed canarygrass	0.0065
09701	marsh thistle	0.0821
09702	reed canarygrass	0.0008
09703	reed canarygrass	0.0009
09704	bull thistle	0.005
09705	marsh thistle	0.0003
09706	reed canarygrass	0.0019
09707	spotted knapweed	0.0008
09708	spotted knapweed	0.21
09709	bull thistle	0.0002
09710	honeysuckle	0.1667
09711	spotted knapweed	0.1673
09712	Canada thistle	0.0009
09713	spotted knapweed	0.0009
09714	reed canarygrass	0.0051
09715	honeysuckle	0.0006
10001	garlic mustard	0.0017
10002	garlic mustard	0.004
10003	reed canarygrass	0.22
10004	reed canarygrass	0.1941
10005	Canada thistle	0.0032
10006	bull thistle	0.0038
10007	bull thistle	0.0043
10008	spotted knapweed	0.0048
10009	bull thistle	0.0003
10010	honeysuckle	0.0844

LK/LA Site #	Common Name	Infested acres
10011	reed canarygrass	0.0067
10012	marsh thistle	0.1691
10013	marsh thistle	0.0097
10014	spotted knapweed	0.0502
10015	bull thistle	0.0691
10016	marsh thistle	0.0057
10017	Canada thistle	0.0126
10018	marsh thistle	0.0133
10019	marsh thistle	0.0928
10020	marsh thistle	0.0618
10021	bull thistle	0.0317
10022	bull thistle	0.0117
10023	reed canarygrass	0.005
10024	Canada thistle	0.063
10026	marsh thistle	0.0151
10027	garlic mustard	1.9915
10028	spotted knapweed	0.0193
10029	Canada thistle	0.0344
10030	marsh thistle	0.076
10031	marsh thistle	0.0008
10032	Canada thistle	0.006
10033	marsh thistle	0.0063
10034	reed canarygrass	0.0011
10035	reed canarygrass	0.0042
10036	Canada thistle	0.0123
10037	spotted knapweed	0.0511
10038	Canada thistle	0.008
10039	bull thistle	0.0414
10040	marsh thistle	0.0041
10041	spotted knapweed	0.0017
10042	spotted knapweed	0.4111
10043	marsh thistle	0.0021
10044	marsh thistle	0.0019
10045	marsh thistle	0.059
10046	spotted knapweed	0.0021
10047	marsh thistle	0.0012
10048	Canada thistle	0.0032
10049	reed canarygrass	0.006
10050	marsh thistle	0.093
10051	marsh thistle	0.03
10052	spotted knapweed	0.0038
10053	reed canarygrass	0.1239
10054	spotted knapweed	0.0097
10055	bull thistle	0.1133
10056	marsh thistle	0.0052
10057	Canada thistle	0.0127
10058	bull thistle	0.0958
10059	Canada thistle	0.0819
10060	marsh thistle	0.0038
10061	reed canarygrass	0.2992
10062	spotted knapweed	0.0057
10063	marsh thistle	0.7798
10064	spotted knapweed	0.0231
10065	bull thistle	0.0209
10066	Canada thistle	0.0211
10067	bull thistle	0.3508
10068	spotted knapweed	1.9753

LK/LA Site #	Common Name	Infested acres
10069	reed canarygrass	0.2518
10070	marsh thistle	0.0499
10071	reed canarygrass	0.0412
10072	marsh thistle	0.046
10073	marsh thistle	0.0189
10074	bull thistle	0.0106
10075	bull thistle	0.42
10076	reed canarygrass	0.0109
10077	marsh thistle	1.3741
10078	reed canarygrass	0.0651
10079	bull thistle	0.0051
10080	Canada thistle	0.0505
10081	reed canarygrass	0.0401
10082	Canada thistle	0.0293
10083	reed canarygrass	0.0468
10084	reed canarygrass	0.0185
10085	marsh thistle	0.0964
10086	Canada thistle	0.1187
10087	bull thistle	0.0394
10088	marsh thistle	0.1569
10089	Canada thistle	0.1889
10090	bull thistle	0.0032
10091	marsh thistle	0.1549
10093	bull thistle	0.1783
10094	cypress spurge	0.0312
10095	garlic mustard	0.0082
10096	spotted knapweed	0.0293
10097	marsh thistle	0.0343
10098	Canada thistle	0.0199
10100	garlic mustard	0.3006
10101	bull thistle	0.0001
10102	bull thistle	0.0001
10103	bull thistle	0.0001
10104	Canada thistle	0.0076
10105	reed canarygrass	0.0473
10500	spotted knapweed	3.0794
10501	bull thistle	0.0317
10502	leafy spurge	0.0202
10503	spotted knapweed	4.1023
10504	spotted knapweed	0.0079
10505	leafy spurge	0.145
10506	leafy spurge	0.2293
10507	spotted knapweed	0.0141
10508	spotted knapweed	1.1078
10509	bull thistle	0.043
10510	bull thistle	0.1335
10511	spotted knapweed	3.3191
10512	bull thistle	0.0114
10513	Canada thistle	0.013
10515	bull thistle	0.014
10516	spotted knapweed	0.0056
10517	bull thistle	0.0193
10518	spotted knapweed	0.7724
10520	common reed	0.0555
10521	bull thistle	0.0054
10522	spotted knapweed	0.5632
10524	spotted knapweed	1.0201

LK/LA Site #	Common Name	Infested acres
10525	marsh thistle	0.1649
10526	common buckthorn	0.0106
10527	Canada thistle	0.0673
10528	leafy spurge	1.7759
10529	honeysuckle	0.0071
10530	bull thistle	0.3869
10531	Canada thistle	0.0838
10532	bull thistle	0.0515
10533	Canada thistle	0.0512
10534	Canada thistle	0.1333
10535	marsh thistle	0.1332
10536	Canada thistle	0.0485
10537	bull thistle	0.0051
10538	Canada thistle	0.0218
10539	spotted knapweed	2.9909
10540	bull thistle	0.0125
10541	spotted knapweed	0.4196
10542	bull thistle	0.0201
10543	bull thistle	0.5261
10544	spotted knapweed	0.0408
10545	bull thistle	0.0454
10547	Canada thistle	0.0453
10548	bull thistle	0.1056
10549	spotted knapweed	0.0325
10550	bull thistle	0.2087
10551	leafy spurge	0.042
10553	bull thistle	0.0463
10554	spotted knapweed	0.0432
10555	Canada thistle	0.1933
10556	bull thistle	0.0365
10557	spotted knapweed	0.7249
10558	spotted knapweed	0.0352
10559	bull thistle	0.0226
10560	spotted knapweed	0.1046
10561	bull thistle	0.0991
10562	spotted knapweed	0.0327
10563	spotted knapweed	0.2394
10565	spotted knapweed	0.1404
10566	spotted knapweed	0.6273
10567	bull thistle	0.0062
10568	reed canarygrass	0.0289
10569	bull thistle	0.0046
10570	reed canarygrass	0.0607
10571	reed canarygrass	0.2083
10572	reed canarygrass	0.0678
10573	bull thistle	0.0149
10574	reed canarygrass	0.012
10575	bull thistle	0.0199
10576	bull thistle	0.057
10577	bull thistle	0.3005
10578	bull thistle	0.3377
10579	reed canarygrass	0.0768
10580	reed canarygrass	0.0264
10581	bull thistle	0.0335
10582	reed canarygrass	0.0332
10583	bull thistle	0.1327
10584	bull thistle	0.0165

LK/LA Site #	Common Name	Infested acres
10585	reed canarygrass	0.03
10586	marsh thistle	0.0575
10587	reed canarygrass	0.0351
10588	reed canarygrass	0.0281
10589	spotted knapweed	0.085
10590	reed canarygrass	0.0432
10591	spotted knapweed	0.0105
10592	bull thistle	0.0422
10593	spotted knapweed	0.0278
10594	spotted knapweed	0.3349
10595	reed canarygrass	0.0148
10596	spotted knapweed	0.8385
10597	reed canarygrass	0.0142
10598	spotted knapweed	0.1113
10599	bull thistle	0.0006
10600	reed canarygrass	0.0324
10601	spotted knapweed	2.1873
10602	bull thistle	0.2041
10603	spotted knapweed	5.8387
10604	marsh thistle	0.0285
10605	Canada thistle	0.2011
10606	marsh thistle	0.0549
10607	Canada thistle	0.0256
10608	marsh thistle	0.0905
10609	marsh thistle	0.0607
10610	marsh thistle	0.0211
10611	reed canarygrass	0.1864
10612	spotted knapweed	0.1083
10613	marsh thistle	0.0645
10614	Canada thistle	0.0676
10615	bull thistle	0.1342
10616	reed canarygrass	0.0909
10617	spotted knapweed	5.0527
10618	Canada thistle	0.3685
10619	reed canarygrass	0.3613
10620	Canada thistle	0.8698
10900	Canada thistle	0.0505
10901	marsh thistle	0.0757
10902	Canada thistle	0.0807
10903	marsh thistle	0.0703
10904	marsh thistle	0.0026
10905	marsh thistle	0.0851
10906	marsh thistle	0.0353
10907	marsh thistle	0.0053
10908	marsh thistle	0.0975
10909	marsh thistle	0.0166
10910	reed canarygrass	0.0023
10911	Canada thistle	0.0358
10912	marsh thistle	0.0733
10913	Canada thistle	0.0151
10914	Canada thistle	0.0052
10915	marsh thistle	0.068
10917	Canada thistle	0.0138
10918	marsh thistle	0.1307
10919	Canada thistle	0.0157
10920	marsh thistle	0.0883
10921	Canada thistle	0.0217

LK/LA Site #	Common Name	Infested acres
10922	marsh thistle	0.1332
10923	reed canarygrass	0.0085
10924	marsh thistle	0.1346
10925	marsh thistle	0.0091
10926	Canada thistle	0.0114
10927	marsh thistle	0.0915
10928	Canada thistle	0.013
10929	marsh thistle	0.073
10930	Canada thistle	0.0112
10931	marsh thistle	0.1219
10932	Canada thistle	0.0214
10933	marsh thistle	0.1447
10935	reed canarygrass	0.0283
10936	Canada thistle	0.0176
10937	marsh thistle	0.1064
10938	marsh thistle	0.0669
10939	reed canarygrass	0.0171
10940	Canada thistle	0.0148
10941	marsh thistle	0.1109
10942	Canada thistle	0.0127
10943	marsh thistle	0.1349
10944	reed canarygrass	0.0302
10945	Canada thistle	0.0175
10946	marsh thistle	0.1198
10947	reed canarygrass	0.0161
10949	Canada thistle	0.0138
10950	marsh thistle	0.1027
10951	Canada thistle	0.0235
10952	marsh thistle	0.1072
10953	reed canarygrass	0.0104
10954	Canada thistle	0.0099
10955	marsh thistle	0.0902
10957	Canada thistle	0.0194
10958	marsh thistle	0.1743
10960	Canada thistle	0.0273
10961	marsh thistle	0.0957
10962	marsh thistle	0.0862
10963	Canada thistle	0.0092
10964	Canada thistle	0.0125
10965	marsh thistle	0.1459
10967	Canada thistle	0.0185
10968	marsh thistle	0.1467
10969	marsh thistle	0.1023
10972	Canada thistle	0.0031
10973	marsh thistle	0.0133
10974	Canada thistle	0.0082
10975	marsh thistle	0.0695
10977	Canada thistle	0.0024
10978	marsh thistle	0.0333
10979	reed canarygrass	0.2531
10980	Canada thistle	0.0065
10981	reed canarygrass	0.0964
10982	Canada thistle	0.0318
10983	marsh thistle	0.0925
10984	reed canarygrass	0.0894
10986	wild parsnip	0.0198
10987	wild parsnip	0.0546

LK/LA Site #	Common Name	Infested acres
10988	wild parsnip	0.2522
10989	wild parsnip	0.2032
10990	wild parsnip	0.7093
10992	reed canarygrass	0.0217
10995	marsh thistle	0.0124
10998	spotted knapweed	0.1729
10999	Canada thistle	0.042

Washburn District & Visitor Center (V):

Wshb Site #	Common Name	Infested acres
09011	spotted knapweed	0.3472
09017	reed canarygrass	0.0445
09018	Tatarian honeysuckle	0.0771
09020	spotted knapweed	0.0741
09021	bull thistle	0.0712
09022	spotted knapweed	0.0267
09024	spotted knapweed	0.0695
09025	common buckthorn	0.1665
09026	common buckthorn	0.0124
09027	Canada thistle	0.051
09028	reed canarygrass	0.0512
09029	common buckthorn	0.0209
09030	common buckthorn	0.027
09031	spotted knapweed	0.1893
09032	Canada thistle	0.0128
09033	spotted knapweed	0.0066
09034	spotted knapweed	0.0979
09035	common buckthorn	0.0285
09037	common buckthorn	0.0259
09038	Canada thistle	0.0485
09039	common buckthorn	0.138
09040	common buckthorn	0.0709
09041	spotted knapweed	0.2557
09042	Canada thistle	0.1218
09043	common mullein	0.0132
09044	spotted knapweed	0.1655
09045	common mullein	0.0209
09046	spotted knapweed	0.0542
09048	bull thistle	0.0287
09049	common buckthorn	0.0737
09050	Canada thistle	0.0738
09051	spotted knapweed	0.1843
09052	common buckthorn	0.0666
09100	glossy buckthorn	0.0014
09101	spotted knapweed	0.4965
09104	glossy buckthorn	0.1103
09105	honeysuckle	0.6672
09106	Canada thistle	0.5355
10001	spotted knapweed	0.0253
10011	spotted knapweed	0.0122
10012	autumn olive	0.0956
10013	field forget-me-not	0.0404
10014	common buckthorn	0.0021
10016	spotted knapweed	0.115
10053	Siberian peashrub	0.1743
10054	Tatarian honeysuckle	0.0104
10101	spotted knapweed	2.0769
10102	spotted knapweed	0.2556
10104	spotted knapweed	0.0714
10105	Canada thistle	0.1302
10106	autumn olive	0.0146
V09100	reed canarygrass	0.8837

Appendix B -map of sites separate document 6.A_02 (same as scoping maps)

Appendix C

List of 224 new NNIS weed sites with high water table or rapid to very rapid permeability throughout the profile where no herbicides containing Clopyralid would be used.

Appendix C. 2011 NNIS Treatment Sites Where NO Clopyralid Should be Used					
91301072	9130210101	9130310007	9130409614	9130410539	9130509020
91301076	9130210106	9130409110	9130409640	9130410540	9130509022
9130104487	9130210107	9130409124	9130409643	9130410547	9130509025
9130109003	9130210108	9130409153	9130409658	9130410548	9130509026
9130109004	9130210109	9130409155	9130409696	9130410551	9130509027
9130109005	9130210110	9130409158	9130410003	9130410553	9130509028
9130109006	9130210112	9130409160	9130410010	9130410554	9130509030
9130109008	9130210121	9130409179	9130410012	9130410555	9130509031
9130109009	9130210126	9130409180	9130410024	9130410556	9130509037
9130109010	9130210129	9130409181	9130410034	9130410557	9130509038
9130109016	9130210142	9130409190	9130410038	9130410560	9130509039
9130109103	9130210148	9130409198	9130410039	9130410561	9130509040
9130209101	9130210154	9130409200	9130410042	9130410565	9130509041
9130209103	9130210156	9130409201	9130410043	9130410566	9130509042
9130209105	9130309003	9130409202	9130410045	9130410573	9130509044
9130209106	9130309013	9130409203	9130410053	9130410603	9130509045
9130209119	9130309014	9130409204	9130410058	9130410609	9130509046
9130209122	9130309015	9130409206	9130410059	9130410612	9130509048
9130209123	9130309016	9130409207	9130410060	9130410616	9130509049
9130209124	9130309023	9130409208	9130410061	9130410617	9130509050
9130209126	9130309025	9130409209	9130410063	9130410618	9130509052
9130209127	9130309036	9130409225	9130410068	9130410619	9130509104
9130209128	9130309044	9130409236	9130410075	9130410620	9130509105
9130209129	9130309045	9130409503	9130410077	9130410974	9130510012
9130209131	9130309046	9130409504	9130410078	9130410975	9130510013
9130209139	9130309047	9130409505	9130410085	9130410977	9130510016
9130209141	9130309162	9130409508	9130410086	9130410978	9130510101
9130209146	9130309164	9130409537	9130410088	9130410979	9130510102
9130209149	9130309165	9130409550	9130410089	9130410982	9130510105
9130209150	9130309167	9130409551	9130410103	9130410983	
9130209154	9130309174	9130409555	9130410104	9130410984	**224 total**
9130209155	9130309175	9130409557	9130410105	9130410986	
9130209157	9130309176	9130409560	9130410503	9130410989	
9130209159	9130309672	9130409584	9130410504	9130410990	
9130209160	9130309673	9130409585	9130410511	9130410992	
9130209169	9130309675	9130409598	9130410518	9130410995	
9130209173	9130309677	9130409601	9130410520	9130410999	
9130209174	9130309678	9130409612	9130410521	9130509017	
9130209176	9130309679	9130409613	9130410524	9130509018	

Aquatic Guidelines for Herbicide Use on the CNNF

Herbicide	Use on aquatic Weeds and in Wetlands Allowed	Use on soils with a rapid or very rapid permeability and or a high water table allowed.[2]	Use Adjacent to Water Allowed
Glyphosate	Yes [1]	Yes	Yes [1]
Imazapic	No	Yes	No
Triclopyr	No	Yes	No[3]
Clopyralid	No	No	No
Aminopyralid	No	Yes	No
Metsulfuron Methyl	No	Yes	No

1 Glyphosate with no surfactant or other active ingredient (like Rodeo ®)

2 See Appendix A table for these locations

3 Stump and/or basal bark treatment allowed with ester formation, no restrictions on acid and salt formations