

**NOXIOUS AND SELECTED INVASIVE PLANT
POPULATIONS ALONG ILLINOIS TOLL
HIGHWAY RIGHTS-OF-WAY**



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ILLINOIS STATE TOLL HIGHWAY AUTHORITY

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EXECUTIVE SUMMARY

- Repeated a 2010 survey for selected invasive species and listed noxious weeds throughout the ISTHA corridor.
- Mapped 1345 populations of invasive species.
- Found the ISTHA corridor to be heavily populated by invasive species throughout the length of each roadway.
- Most frequently found species were Canada Thistle (*Cirsium arvense*) and Cut-leaf Teasel (*Dipsacus laciniatus*).
- Recommend management specific to each of 8 species or groups of species found during the survey.

Fund Title

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Banner Grant Code

D6262

Descriptive Title

Biological monitoring
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tollway construction
activities (2015–2019)

INTRODUCTION

The Illinois State Toll Highway Authority (ISTHA) requested a repeat survey during 2018 for noxious and selected invasive plant species established in ISTHA rights-of-way throughout the tollway system in northern and northeastern Illinois, following a survey originally completed in 2010 (Taft et al., 2011). The species of concern include all species on the Illinois Noxious Weeds List (Illinois Administrative Code, 2002) and selected invasive species recognized by the Illinois Invasive Plant Species Council (IIPSC). They comprise 15 species including annuals, biennials, and perennial forbs and grasses (Table 1). Ten species were found in the original survey (Table 2), and we recorded all but 1 of the same species in 2018 (Table 3). The survey goals were to update locations and approximate population sizes of these

species within tollway rights-of-way with a focus on moderate to major concentrations to assist in targeted control efforts.

METHODS

We examined the ISTHA system for species listed in Table 1 with surveys on I-294/I-94, I-355, I-88, I-90, and I-390. We separated the Edens Spur section of I-294/I-94 so it can be treated as a separate management unit if desired. We traveled the entire tollway system once in late summer, at an optimal survey time for the selected species. We conducted surveys 24–26 July, 31 July–2 August, and 14–15 August, 2018. The dates met the phenological considerations for ease of locating flowering or other readily identifiable life stages for each species. *Melilotus alba* and *M. officinale* (White and Yellow Sweet Clover)

Table 1. Illinois Noxious Plants and selected invasive species requested by ISTHA in 2010 for surveys along tollway routes.

| Scientific Name | Common Name | Life History/Growth Form |
|--|-----------------------|--------------------------|
| Illinois Noxious Weeds | | |
| <i>Ambrosia artemisiifolia</i> | Common ragweed | Annual forb |
| <i>Ambrosia trifida</i> | Giant ragweed | Annual forb |
| <i>Cannabis sativa</i> | Marijuana | Annual forb |
| <i>Carduus nutans</i> | Musk thistle | Perennial forb |
| <i>Cirsium arvense</i> | Canada thistle | Perennial forb |
| <i>Pueraria lobata</i> | Kudzu | Woody vine |
| <i>Sonchus arvensis</i> | Perennial sow thistle | Perennial forb |
| <i>Sorghum halepense</i> | Johnson grass | Perennial C4 grass |
| Selected Other Invasive Species | | |
| <i>Alliaria petiolata</i> | Garlic mustard | Biennial forb |
| <i>Dipsacus laciniatus</i> | Cut-leaf teasel | Biennial forb |
| <i>Euphorbia esula</i> | Leafy spurge | Perennial forb |
| <i>Lythrum salicaria</i> | Purple loosestrife | Perennial forb |
| <i>Melilotus alba</i> | White sweet clover | Biennial forb |
| <i>Melilotus officinalis</i> | Yellow sweet clover | Biennial forb |
| <i>Phalaris arundinacea</i> | Reed canary grass | Perennial C3 grass |

Table 2. Invasive species occurrences recorded in the 2010 survey.

| Species | I-294/94 | Edens Spur | I-355 | I-88 | I-90 | I-390 | Species totals |
|-----------------------------|----------|------------|-------|------|------|-------|----------------|
| <i>Ambrosia trifida</i> | 0 | N/A | 1 | 1 | 1 | N/A | 3 |
| <i>Carduus nutans</i> | 11 | N/A | 2 | 5 | 23 | N/A | 41 |
| <i>Cirsium arvense</i> | 29 | N/A | 9 | 94 | 56 | N/A | 188 |
| <i>Dipsacus laciniatus</i> | 39 | N/A | 6 | 18 | 29 | N/A | 92 |
| <i>Euphorbia esula</i> | 1 | N/A | 0 | 0 | 3 | N/A | 4 |
| <i>Lythrum salicaria</i> | 17 | N/A | 1 | 7 | 20 | N/A | 45 |
| <i>Melilotus spp.</i> | 22 | N/A | 7 | 42 | 22 | N/A | 93 |
| <i>Phalaris arundinacea</i> | 14 | N/A | 1 | 56 | 57 | N/A | 128 |
| <i>Sonchus arvensis</i> | 1 | N/A | 1 | 25 | 2 | N/A | 29 |
| Total occurrences | | | | | | | 623 |

Table 3. Invasive species occurrences recorded in the 2018 survey.

| Species | I-294/94 | Edens Spur | I-355 | I-88 | I-90 | I-390 | Species totals |
|-----------------------------|----------|------------|-------|------|------|-------|----------------|
| <i>Ambrosia trifida</i> | 0 | | 0 | 34 | 25 | 0 | 59 |
| <i>Carduus nutans</i> | 4 | | 0 | 2 | 7 | 0 | 13 |
| <i>Cirsium arvense</i> | 42 | 5 | 9 | 88 | 128 | 4 | 276 |
| <i>Dipsacus laciniatus</i> | 142 | 14 | 47 | 111 | 82 | 12 | 408 |
| <i>Lythrum salicaria</i> | 10 | 2 | 4 | 2 | 27 | 0 | 45 |
| <i>Melilotus spp.</i> | 40 | | 9 | 77 | 82 | 2 | 210 |
| <i>Phalaris arundinacea</i> | 7 | | 1 | 61 | 41 | 0 | 110 |
| <i>Sonchus spp.</i> | 34 | | 7 | 82 | 101 | 0 | 224 |
| Total occurrences | | | | | | | 1345 |

were combined (*Melilotus spp.*) because it was not always possible to distinguish non-flowering plants to species. *Sonchus arvensis* and *Sonchus asper* were also combined into *Sonchus spp.* because they are difficult to tell apart at a distance.

We marked invasive plant colonies using a Geode GPS/GLONASS sub-meter receiver coupled to a Cedar CT5 android device with data points taken usually near the colony center for small populations, and at beginning and endpoints for larger populations. When possible, we identified corresponding roadside mile markers to the nearest decimal mile. We visually estimated the distance to colonies from the edge of the pavement, confirming distances initially with measurements for validation. Following the procedure for the original survey (Taft et al, 2011), we estimated colony size using a qualitative relative abundance scale: 1 = uncommon (local, small population), 2 = occasional (scattered, small to moderate population), 3 = common (moderately large population), 4 = abundant (widespread, numerous), and 5 = very abundant (widespread, numerous). In some local sections, particularly central portions of I-294, roadside sound barrier and

elevated roadways limited visibility and access. Heavy traffic and construction also limited our ability to safely record data in some locations, particularly within the Chicago city limits and on I-88W between mileposts 130 and 139 (due to active construction). A section of I-88E approximately between mileposts 44 and 56 had recently been mowed at the time of our survey.

RESULTS AND DISCUSSION

We mapped 1,345 occurrences of invasive species populations throughout the ISTHA system (Table 3; Map 1; Appendix 1). The most commonly encountered species in rank order of frequency were Cut-leaf Teasel (*Dipsacus laciniatus*), Canada Thistle (*Cirsium canadense*), Sow Thistle (*Sonchus arvensis*), Yellow/White Sweet Clover (*Melilotus spp.*), Reed Canary Grass (*Phalaris arundinacea*), Giant Ragweed (*Ambrosia trifida*), Purple Loosestrife (*Lythrum salicaria*), and Musk Thistle (*Carduus nutans*).

Ecology and specific control recommendations for each species we mapped are discussed below.

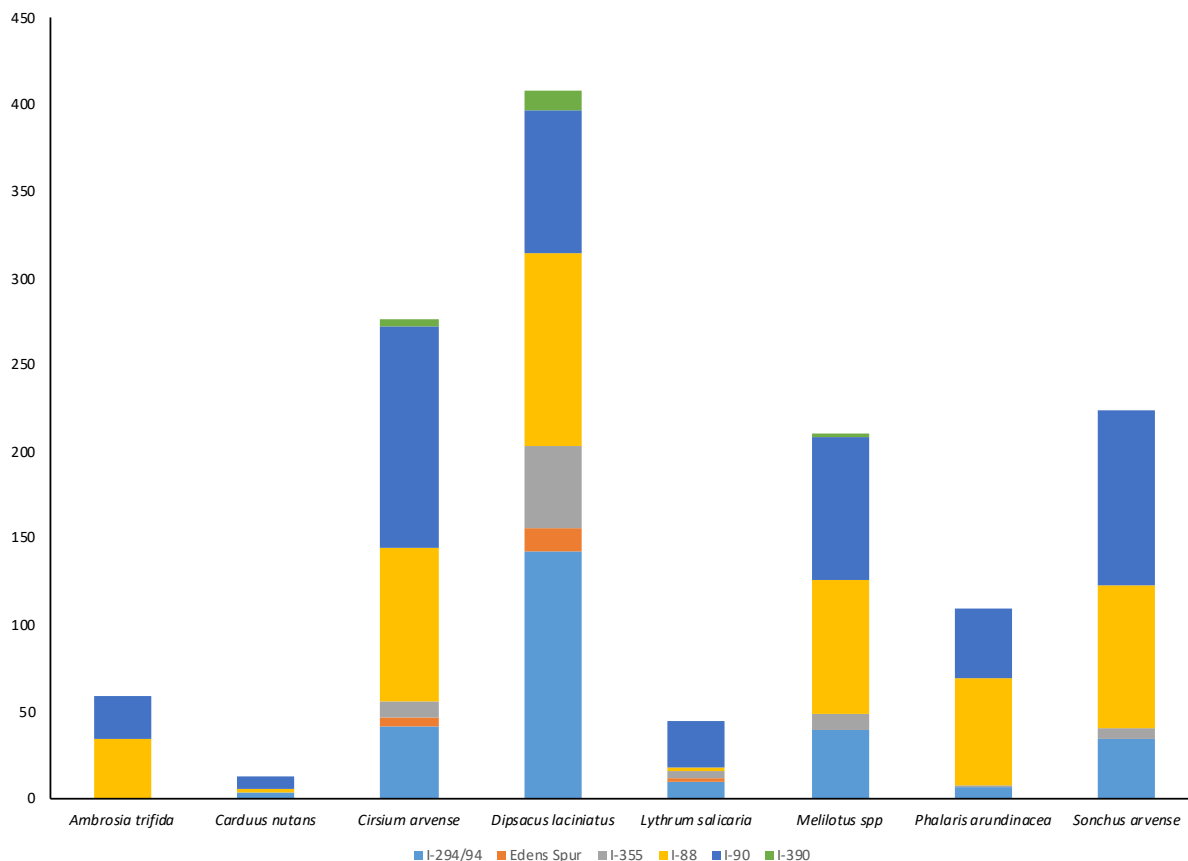


Figure 1. Sum occurrences of selected noxious and invasive species by location along each Illinois State Toll Highway route during 2018 surveys.

Giant Ragweed – *Ambrosia trifida*

Giant Ragweed, a listed Illinois noxious weed (Illinois Administrative Code, 2002), is a native annual. It often colonizes disturbed soil in agricultural land and along field edges and ditches and can form dense stands. It tolerates moist to moderately dry soil conditions in full sun to part shade. Along the tollway, it was found mostly along stream floodplains and in the rich soil adjacent to farm fields in the western portions of the corridor (Map 1). Plants were locally abundant, but populations were relatively uncommon in the tollway corridor (Fig. 1). Giant Ragweed seldom outcompetes other vegetation and has some ecological value to native insects and birds (Wilhelm and Rericha, 2017). We do not recommend the species be a focus of concern or control measures.



Plate 1. Stand of Giant Ragweed, *Ambrosia trifida*. Inset close-up of leaves.

Musk Thistle – *Carduus nutans*

Musk Thistle, a nonnative listed Illinois noxious weed (Illinois Administrative Code, 2002), is a variable annual, biennial, or short-lived perennial that dies after it produces seed, which can persist in the soil for 10 years or more (IDNR, 2017). It does not reproduce vegetatively. It tends to invade open upland habitats such as pastures and prairies, but it is adaptable to a wide variety of site conditions. In the tollway corridor, we found small, isolated populations (Map 1), but this species can produce large amounts of seed, which can allow small populations to grow rapidly. In large numbers this species can outcompete native vegetation (IDNR, 2017).

For small populations of Musk Thistle, we suggest clipping seed heads while the plant is in flower (June through October). Application of 2.0% glyphosate to rosettes prior to bolting, which can begin in April, might also be effective, but the rosettes might be difficult to find and identify. Triclopyr or 2,4-D are recommended for larger populations. If possible, intense prescribed fire can also be an effective control, but patchy burns can make the infestation worse. We also suggest seeding native grasses, as grass-dominated sites seem to be less susceptible to invasion by Musk Thistle (IDNR, 2017).



Plate 2. Musk Thistle, *Carduus nutans*. Photo by Connie Carroll-Cunningham.

Canada Thistle – *Cirsium arvense*

Canada Thistle, a noxious weed in Illinois (Illinois Administrative Code, 2002), is a dioecious non-native perennial which spreads both vegetatively and by seed. Its root system includes both a taproot and lateral roots that send up shoots. Vertical roots can reach depths of up to 22 feet (IDNR, 2017). It can grow in a wide range of soil and moisture conditions, but it won't tolerate shade. Seeds spread by wind and water. The seeds mature quickly and can germinate almost immediately after flowers begin to open in June and July. They can persist for many years if

buried deep in the soil. The plant produces basal leaves the first year and begins to flower the next. Canada Thistle is an aggressive invader that can outcompete native vegetation.

We found Canada Thistle very frequently within the tollway corridor, and often in large numbers (Fig. 1; Map 1). In areas with heavy infestations and no natural character, IDNR recommends mowing as close to the ground as possible shortly before flowering and application of Clopyralid plus 2,4-D at a concentration of 0.3% active ingredient. Canada Thistle is difficult to control and may require more than 1 method. Prescribed burning in the spring, followed by herbicide treatment with 2.5% glyphosate can be effective. Clopyralid (Transline) with surfactant can be very effective when applied to rosettes or bolting plants (IDNR, 2017). Mowing non-flowering plants in late July followed by glyphosate treatment about 4 weeks later can also be effective and complies with the Illinois Monarch Project mowing guidelines (Illinois Monarch Project, 2019).

Cut-leaf Teasel – *Dipsacus laciniatus*

Cut-leaf Teasel, an invasive species from Europe, is a biennial or short-lived perennial which dies after it flowers (July through September). It uses areas of bare ground for germination, often using the site of the parent plants as a nursery. Seeds are usually distributed locally from the parent plant, but in areas of high traffic or water flow, they can be dispersed further (IDNR, 2017). Common Teasel (*Dipsacus sylvestris*) is also invasive, but less aggressive than Cut-leaf Teasel. It has a longer bloom period (June through October) and usually has purple flowers while Cut-leaf Teasel has white flowers.

We found teasel present over long stretches of roadway and around every overpass and exit (Map 1; Appendix 1). Teasel is not listed as a noxious weed in Illinois but is in 4 other states (IDNR, 2017). It is an aggressive species lacking in natural enemies that can invade natural areas and exclude other vegetation. Flowering stems can be cut after flowering has begun to control teasel. The stems must be removed from the site because seeds can mature after cutting. Foliar application of herbicide can also be used. A 0.3% solution of clopyralid is reported to be the most effective chemical for this species, but 2,4-D and triclopyr can also be used (IDNR, 2017). Teasel is typically found on dry upland sites. In the tollway corridor, it is most common on slopes such as around overpasses. In the most urban portions of the tollway corridor, teasel was the most common invasive species we found (Fig. 1; Map 1).



Plate 3. Canada Thistle, *Cirsium arvense*. (Photo by Connie Carroll-Cunningham). Inset close-up of flower head.



Plate 4. Cut-leaf Teasel, *Dipsacus laciniatus*.

Purple Loosestrife – *Lythrum salicaria*

Purple Loosestrife, an exotic weed under the Illinois Exotic Weed Control Act of 1987, is a non-native invasive species. It is found exclusively in wet areas, where it aggressively crowds out native species. It can tolerate partial shade and a wide range of soil types. Purple Loosestrife produces copious amounts of seed and can also spread vegetatively from the root and stem segments (IDNR, 2017).

In the tollway corridor, we found Purple Loosestrife in ditches and low spots and at the margins of streams and ponds (Map 1). Herbicide is the recommended control method for Purple Loosestrife, but a chemical labeled for use over standing water should be used in wetlands. A 0.6% solution of triclopyr (Garlon 3A, or Tahoe 3A if no standing water is present) with a 0.25% nonionic surfactant added has been reported to be effective. A 1.0% solution of glyphosate can also be used on monocultures in disturbed areas where a selective herbicide is not needed. This option is most effective when applied during late flowering stage (late summer), and then again 2 to 3 weeks later (IDNR, 2017).

White and Yellow Sweet Clovers – *Melilotus spp.* (*Melilotus alba* and *Melilotus officinalis*)

White and Yellow Sweet Clovers (*Melilotus alba* and *Melilotus officinalis*, combined as *Melilotus spp.*) are non-native annuals, biennials, or short-lived perennials colonizing disturbed ground and natural areas. Sweet Clover is intolerant of shade, but very drought tolerant, and frequently colonizes calcareous sites such as strip-mined land. It produces copious amounts of seed that can be dispersed by water and wildlife (IDNR, 2017).

In the tollway corridor, we found Sweet Clover most often on open slopes and gravelly embankments. It was particularly common in the western portion of the corridor (I-90 and I-88) and in the most urban portions (Map 1). We recommend treating large populations with a 1.0% solution of glyphosate. More selective herbicides such as clopyralid (in a 0.08% solution) and triclopyr (in a 0.4% solution with 0.5% non-ionic surfactant) can also be used. Cutting or mowing plants in late summer (early September) can kill the 1st-year plants in large numbers (IDNR, 2017).

Reed Canary Grass – *Phalaris arundinacea*

Reed Canary Grass is a non-native perennial grass typically found in and adjacent to wet areas. It can reproduce both by seed and vegetatively by rhizomes. Its growth peaks in mid-June and its seeds ripen by late June (IDNR, 2017).



Plate 5. Purple Loosestrife, *Lythrum salicaria*.



Plate 6. Stand of Sweet Clovers, *Melilotus spp.* Inset closeup of *Melilotus officinalis* (Photo by Paul Marcum).

In the tollway corridor, we found Reed Canary Grass in low-lying wet areas and ditch slopes that receive seepage and occasional flooding (Map 1). Annual prescribed fire for several seasons, followed by herbicide application can be an effective method for controlling Reed Canary Grass, but this might not be possible in tollway corridors. Herbicide alone can also be effective. We recommend a 2.5% foliar spray solution of a glyphosate formula that is labeled for use in wetlands with standing water. The herbicide should be applied in early spring and again in late summer. Dalapon, a selective herbicide that is labeled for wetland use, can also be used (IDNR, 2017).

Perennial and Spiny Sow Thistle – *Sonchus* spp. (*Sonchus arvensis* and *Sonchus asper*)

Perennial and Spiny Sow Thistle, both introduced from Europe, are difficult to identify at a distance, so we have lumped them into *Sonchus* spp. for this survey. The original survey might have confused the 2, as it found *Sonchus arvensis* in 3 counties from which it is not apparently known (Taft et al., 2011; Wilhelm and Rericha, 2017). An author of the 2011 report expressed a low degree of confidence the species had been correctly identified (William C. Handel, pers. comm.).

In the tollway corridor, we found Sow Thistles frequently (Map 1). These species have readily colonized disturbed ground. Perennial Sow Thistle spreads by rhizomes to form colonies, while Spiny Sow Thistle is an annual. Perennial Sow Thistle is listed as a noxious weed in Illinois (Illinois Administrative Code, 2002), but is less common than the annual species (Wilhelm and Rericha, 2017). Neither species has been known to pose an invasive threat to natural areas. We suggest that they not be targeted by control measures, but since they were usually found growing with more concerning invasive species, they can be treated along with those species using mowing and/or herbicides such as 2,4-D, clopyralid, or glyphosate (Graham and Johnson, 2003).

SUMMARY AND CONCLUSION

We recorded more than twice as many occurrences overall as in 2010 (Table 2). The difference in results between the 2010 and current surveys might be due to an increased abundance of invasive species, differences in mapping techniques across personnel, or a combination of the 2. GPS accuracy might have differed between the surveys, and due to inherent subjectivity in the method, population size or starting and ending points could have been assessed differently during the 2010 survey.



Plate 7. Stand of Reed Canary Grass, *Phalaris arundinacea*. Photo by Josh Sherwood. Inset close-up of seed head. Photo by Michael Murphy.



Plate 8. Sow Thistle, *Sonchus* spp. Photo by Josh Sherwood. Inset close-up of *Sonchus asper*. Photo by Michael Murphy.

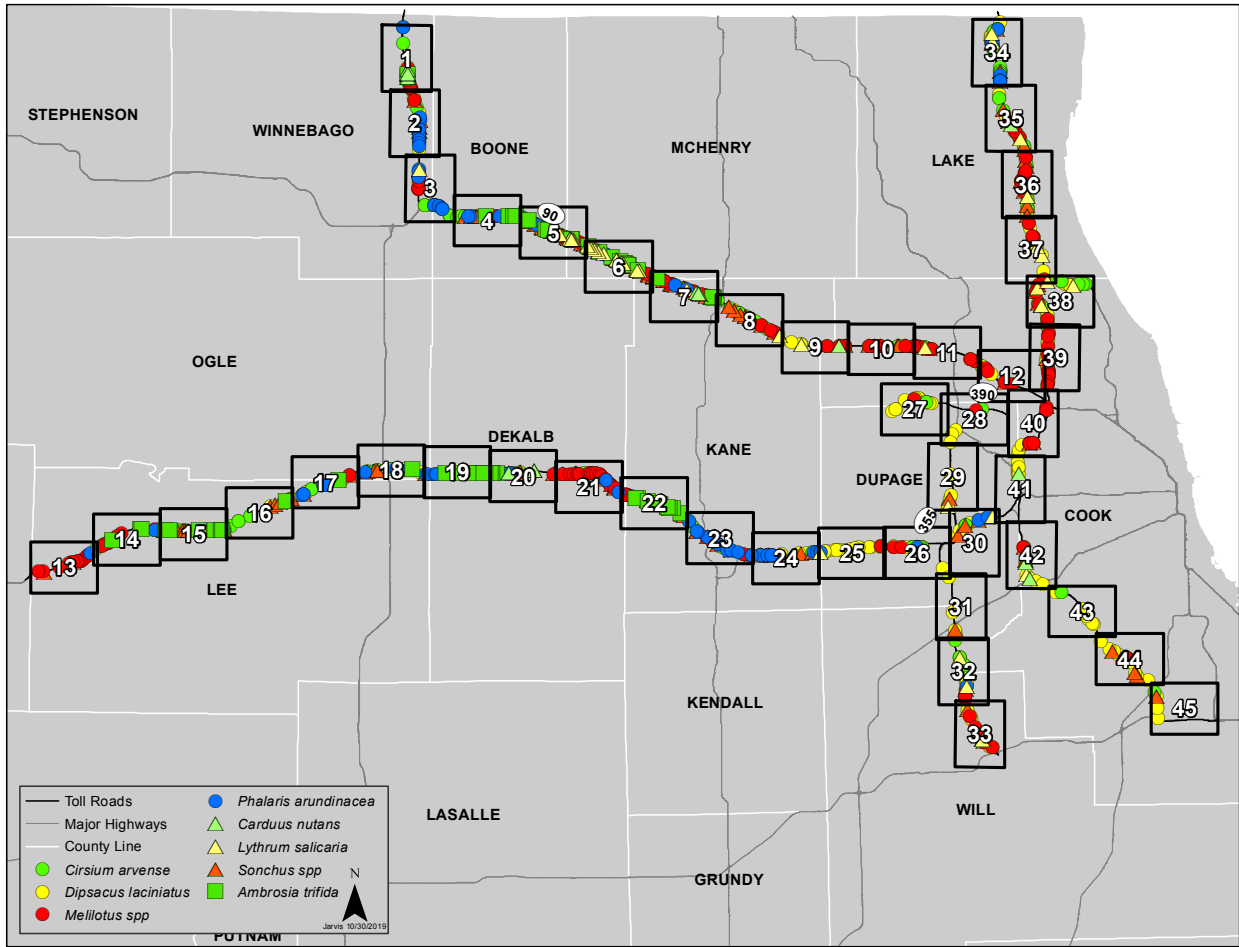
We found that most of the populations mapped during the original survey were still present (Map 2); however, we did not find any Flowering Spurge (*Euphorbia esula*) populations, which were observed in small numbers during the 2010 survey. We found a decline in Musk Thistle from the 2010 survey, but we found more occurrences of Giant Ragweed, Sow Thistle, Sweet Clover, and teasel. Giant Ragweed and Sow Thistle might be taking advantage of recent soil disturbance, as they are agricultural weeds often colonizing bare, fertile ground, whereas Sweet Clover and teasel might be expanding existing populations. It is possible past management of certain invasive species has reduced cover and increased disturbance to the benefit of other invasive plants.

Most of the species found during our survey are best controlled with a combination of herbicide application and cutting stems to prevent seed spread. Prescribed fire can also be useful but might be impractical along busy roadways. Because of their annual and biennial life histories, Giant Ragweed, Sweet Clover, and teasel can be effectively controlled with mowing/cutting if the mechanical control is timed correctly and repeated as necessary. Large populations of perennial invasive species such as Purple Loosestrife, Reed Canary Grass, and Canada Thistle will require herbicide treatment in addition to or instead of mechanical control.

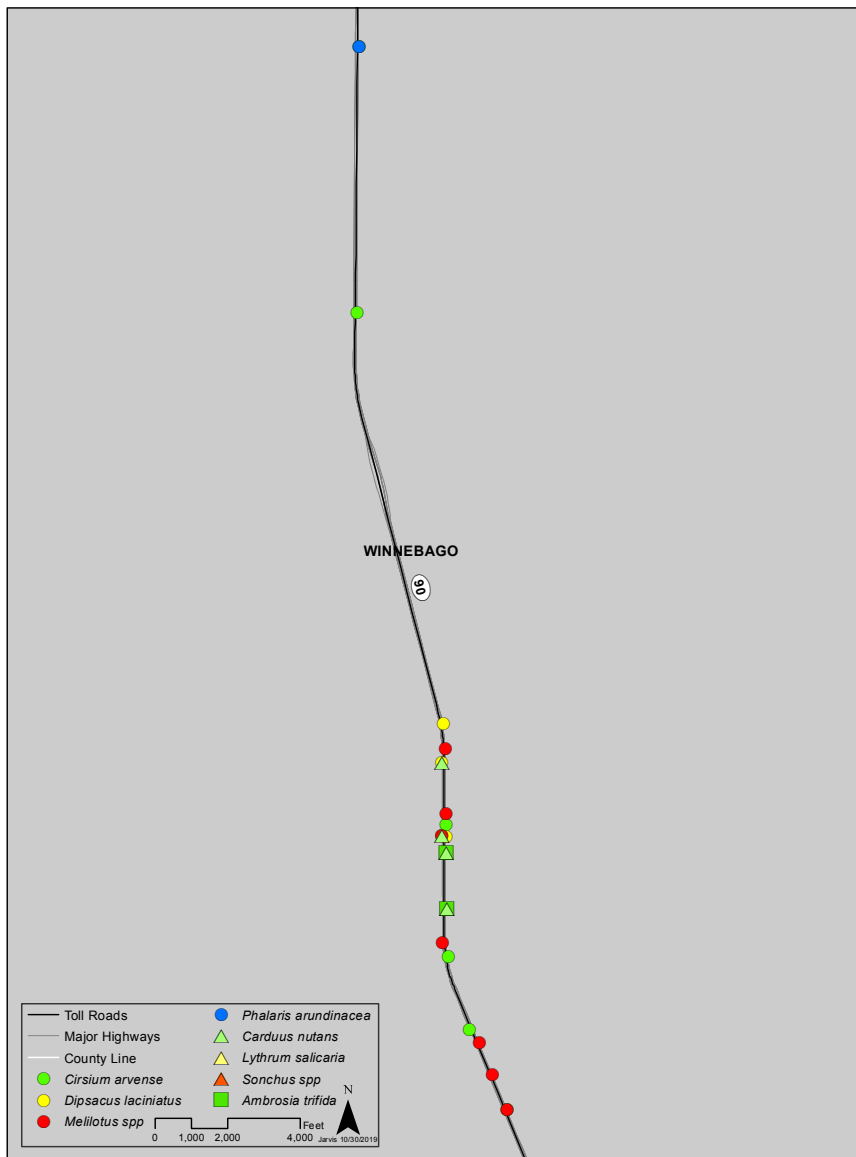
We found the right-of-way corridors throughout the ISTHA system consisted almost entirely of invasive species. Other weedy non-native species were present where the target species were not, and we seldom noticed native species. This is not a surprising finding, given the disturbed nature of the road corridor. Weeds will be present even if more desirable species are seeded in addition to control of invasive species, and their seeds will persist in the soil. If a more ecologically valuable landscape is the goal, we suggest strong control measures to eliminate all or most the existing vegetation, followed by native seed application and then mowing timed to inhibit the invasive species. We suggest ISTHA adopt a pollinator-friendly seasonal mowing plan recommended by the Illinois Monarch Project (2019) to promote the native species used by insects such as Monarch Butterflies while keeping invasive vegetation in check.

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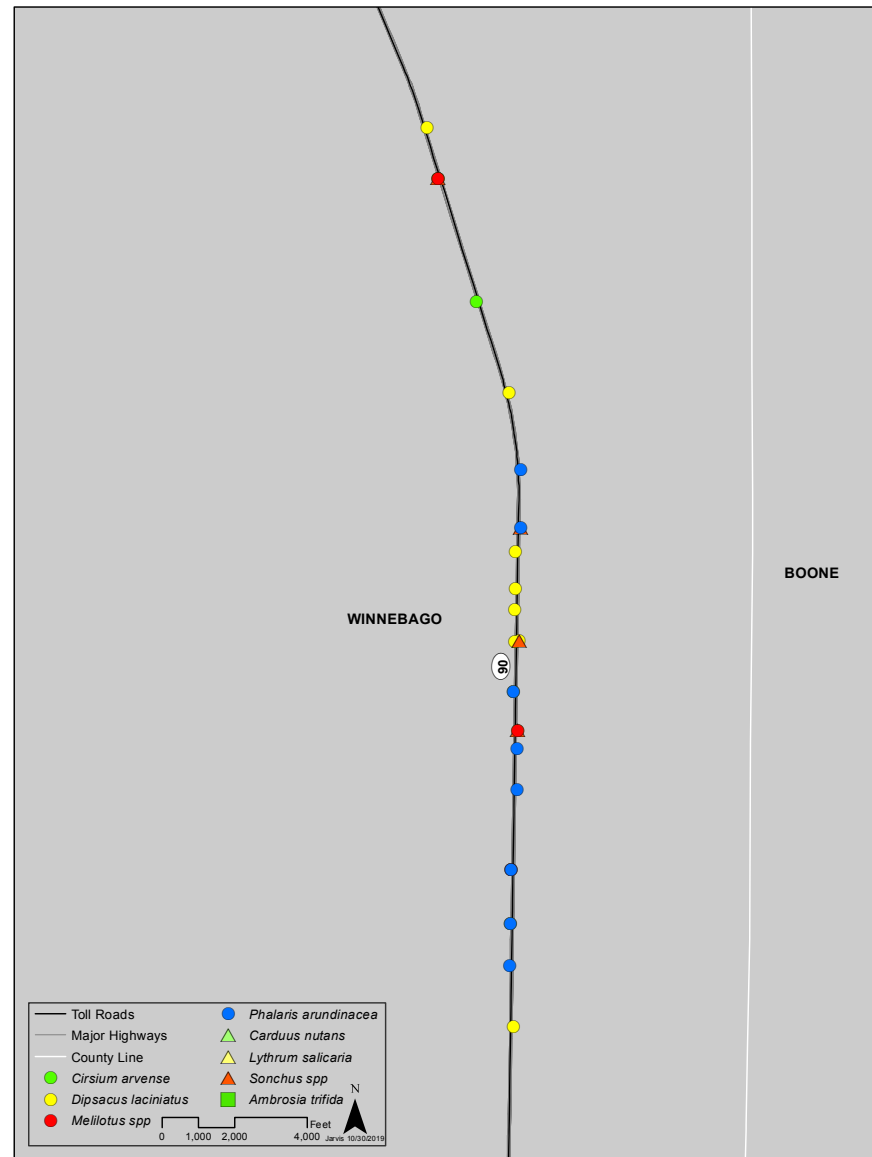
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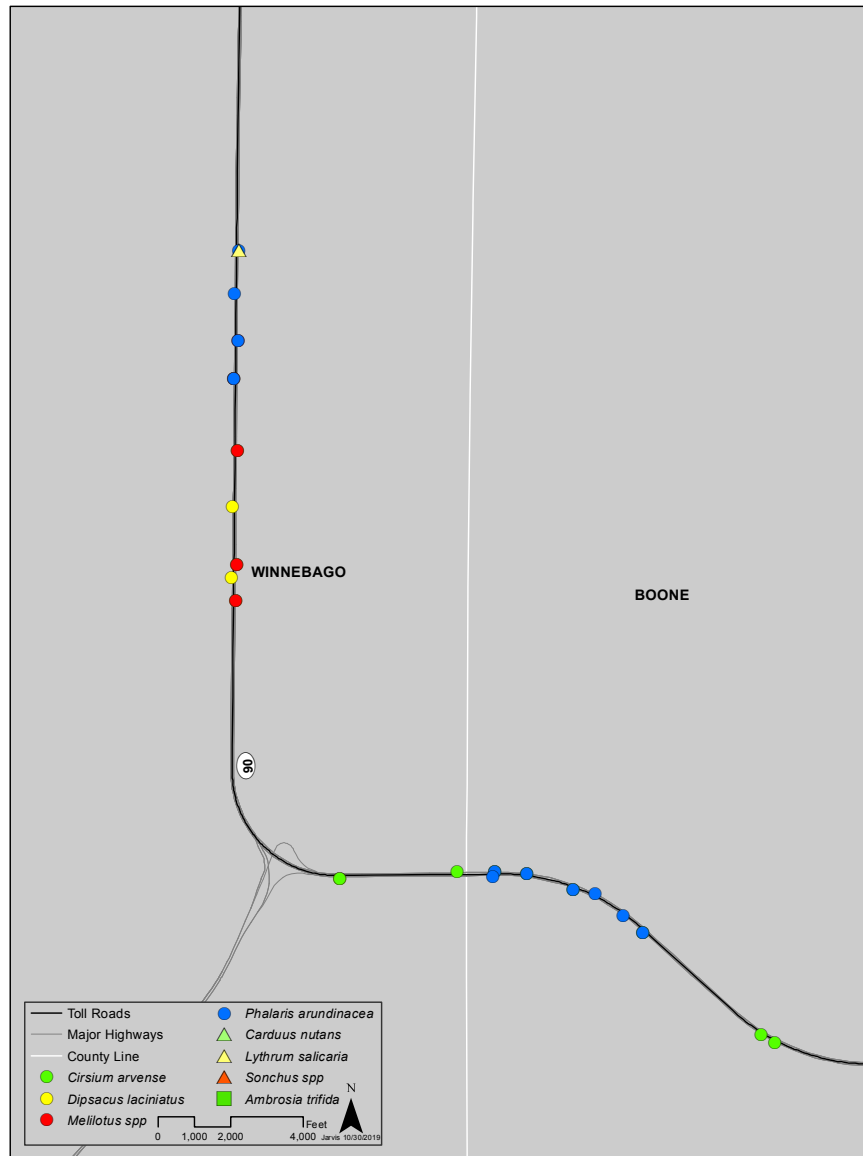
Map 1. Overview map of the distribution of noxious and invasive species throughout the ISTHA system. Numbered rectangles identify the regional orientation of enlargement maps 1.1–1.45.



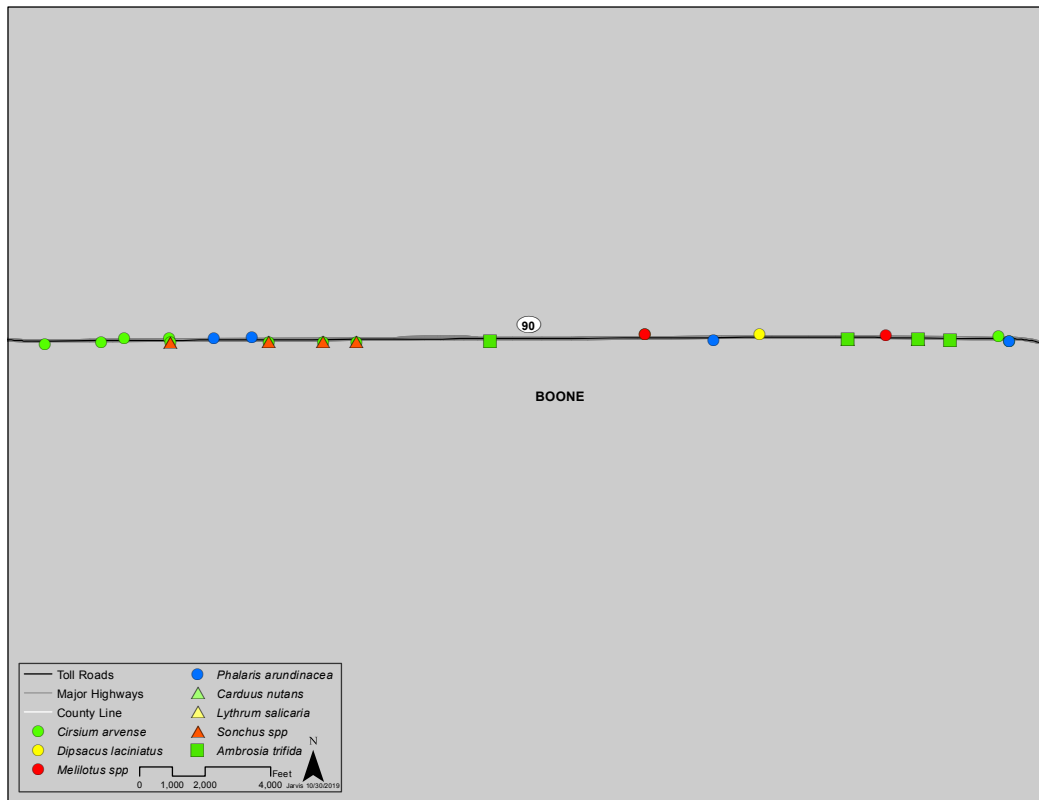
Map 1.1 Enlargement of section 1 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



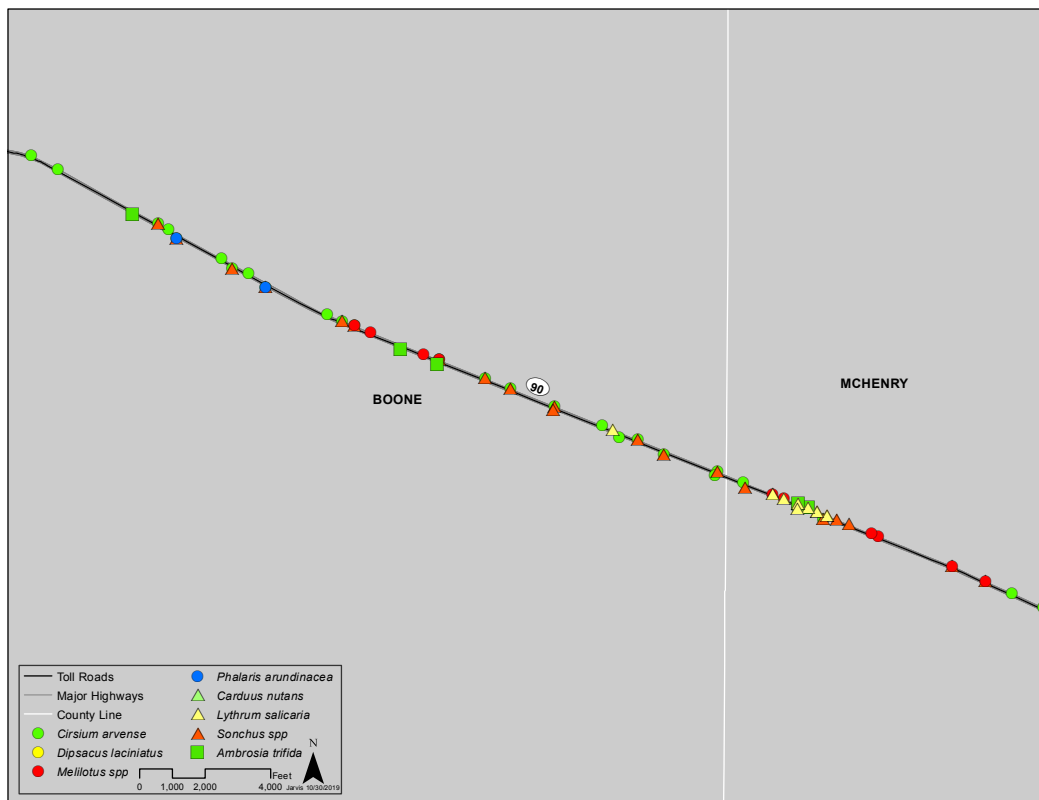
Map 1.2 Enlargement of section 2 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



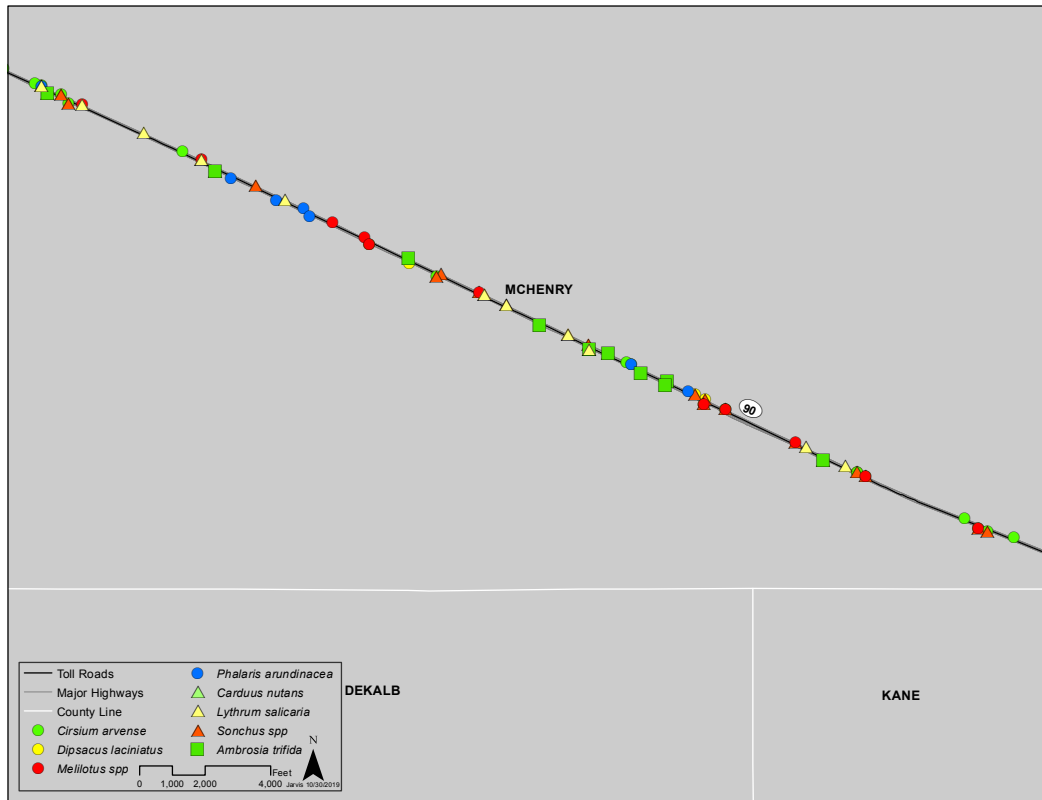
Map 1.3 Enlargement of section 3 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



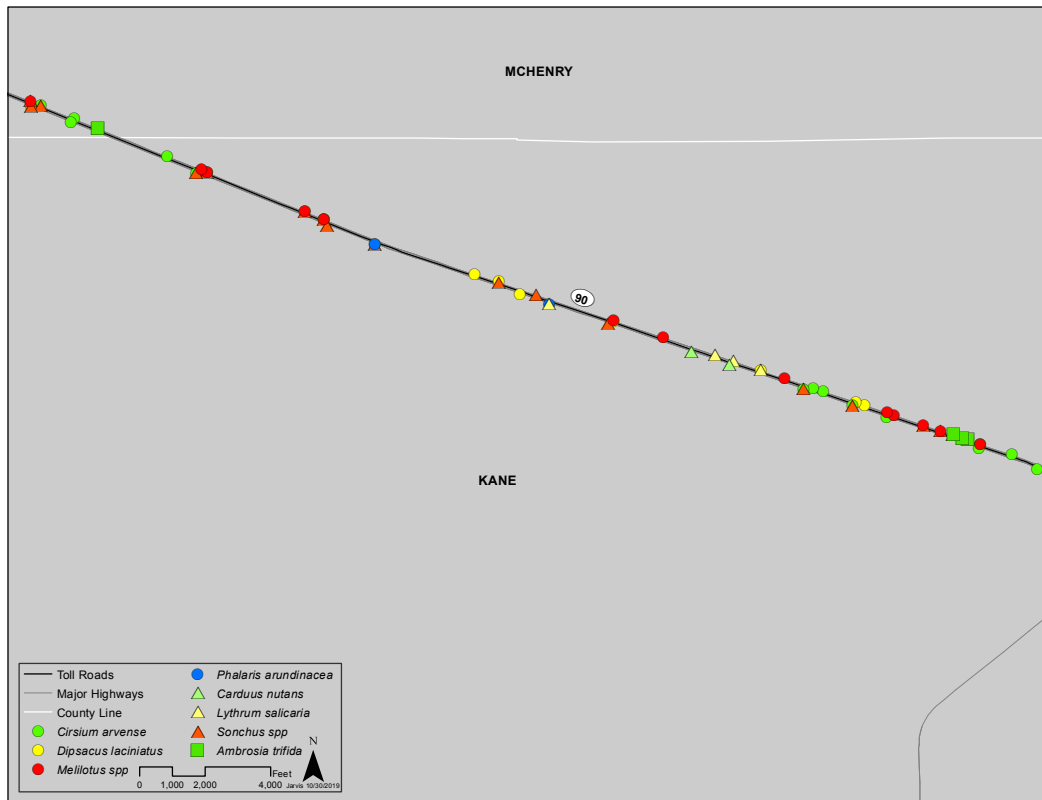
Map 1.4 Enlargement of section 4 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



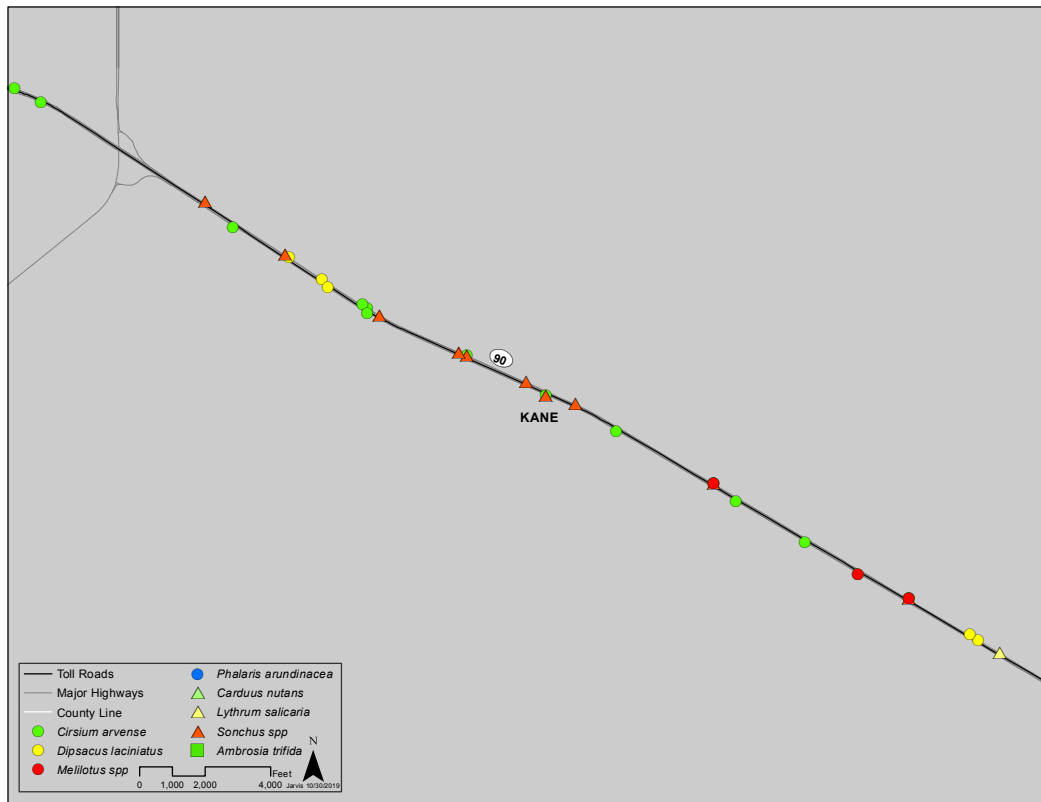
Map 1.5 Enlargement of section 5 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



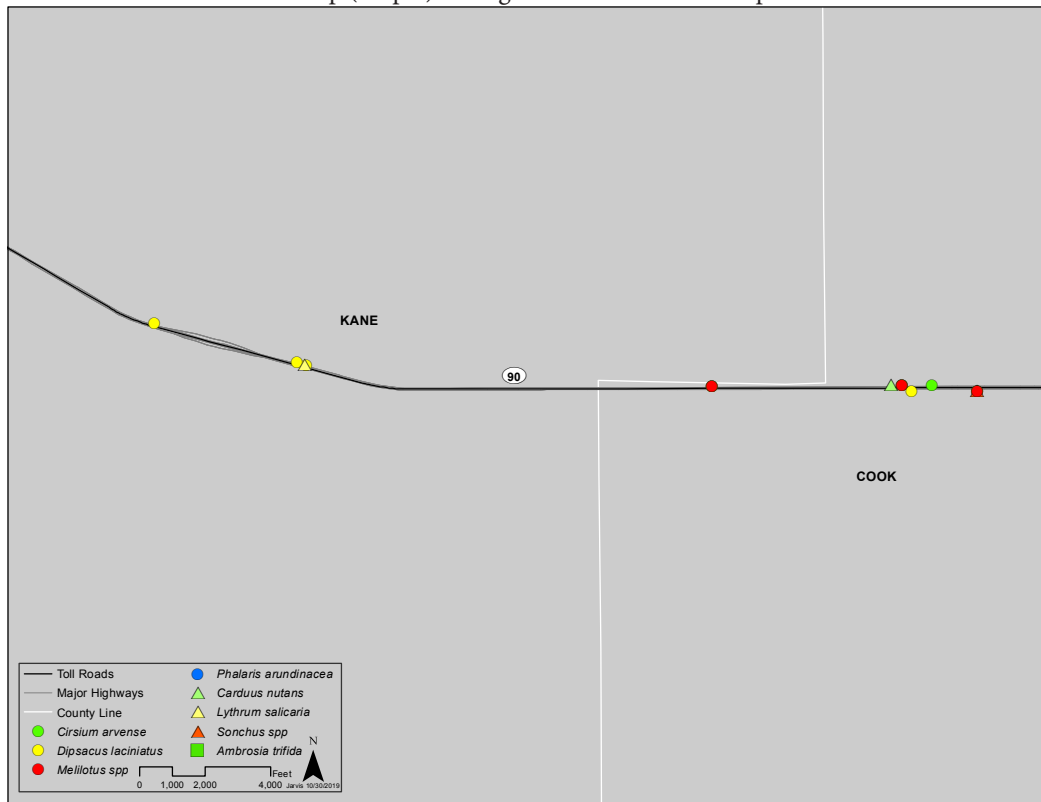
Map 1.6 Enlargement of section 6 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



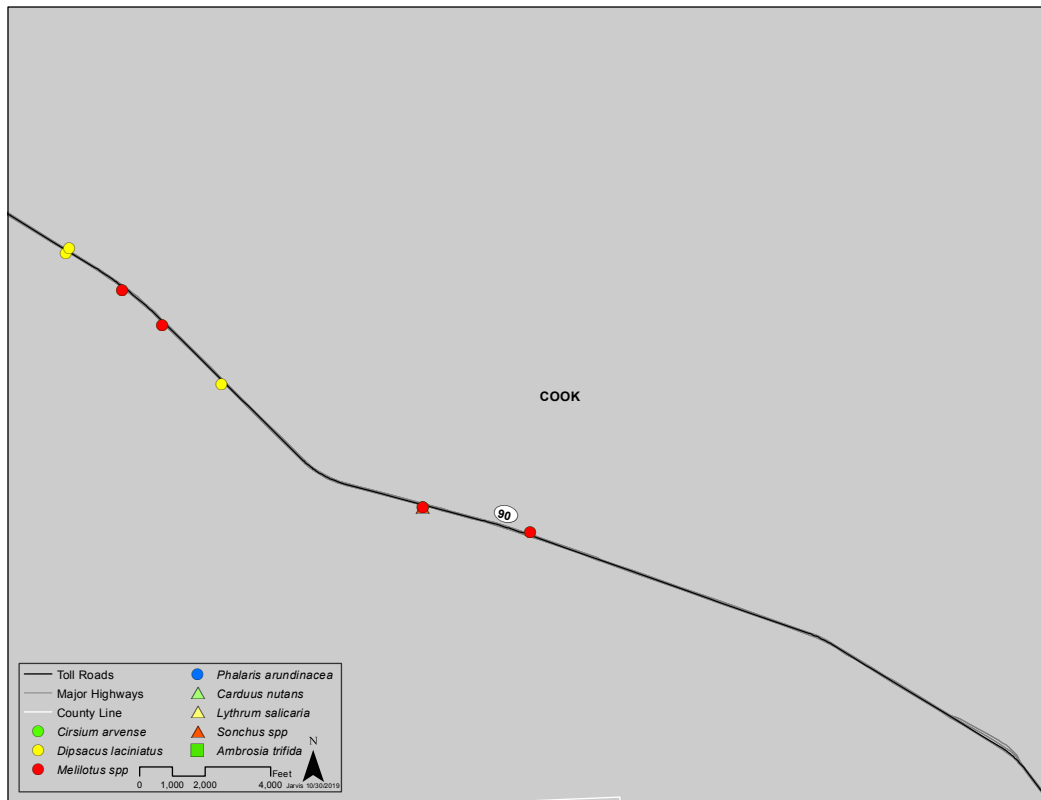
Map 1.7 Enlargement of section 7 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



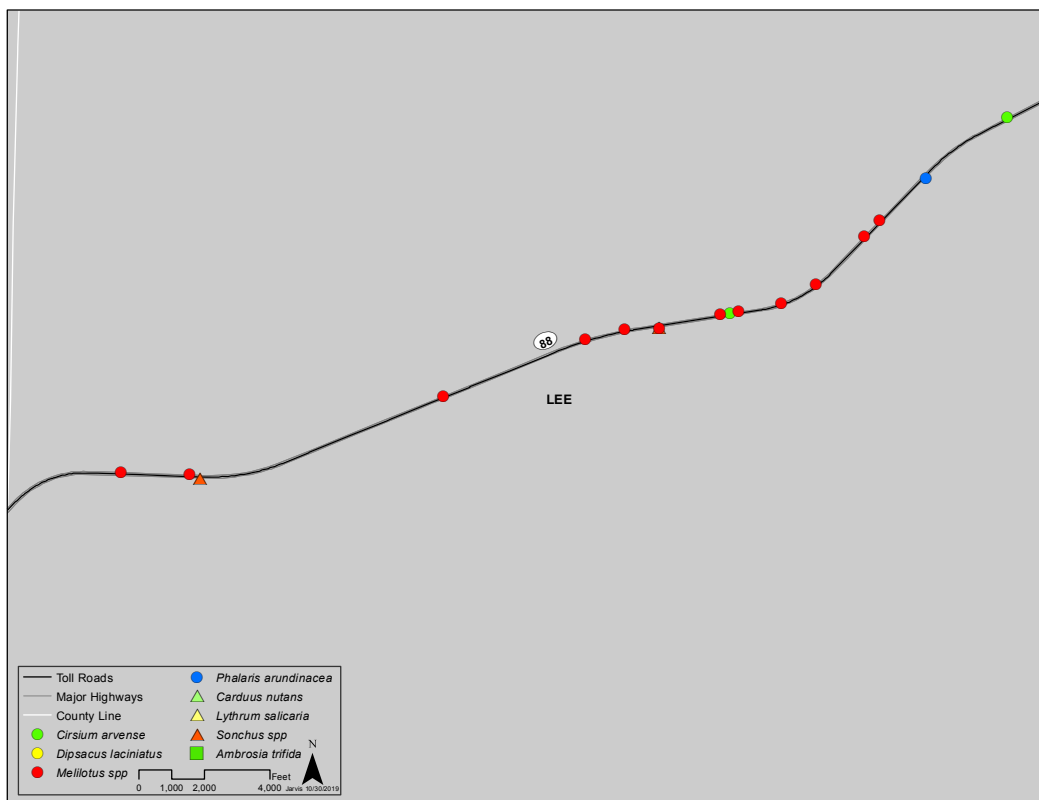
Map 1.8 Enlargement of section 8 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



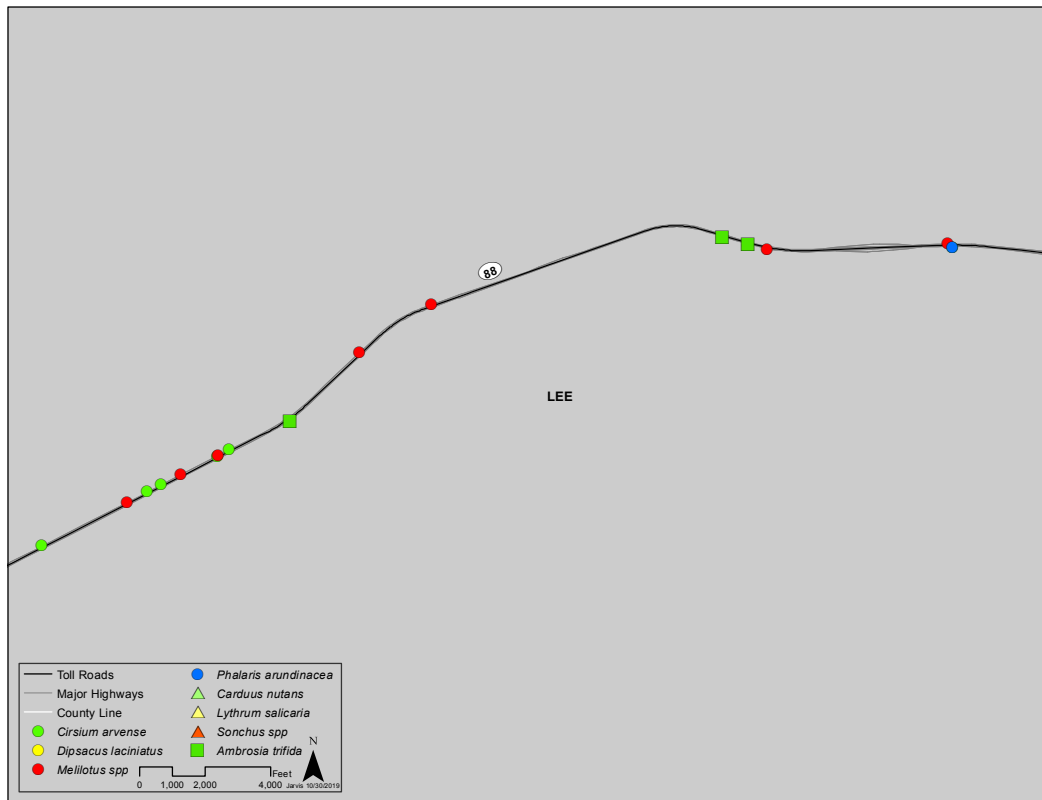
Map 1.9 Enlargement of section 9 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



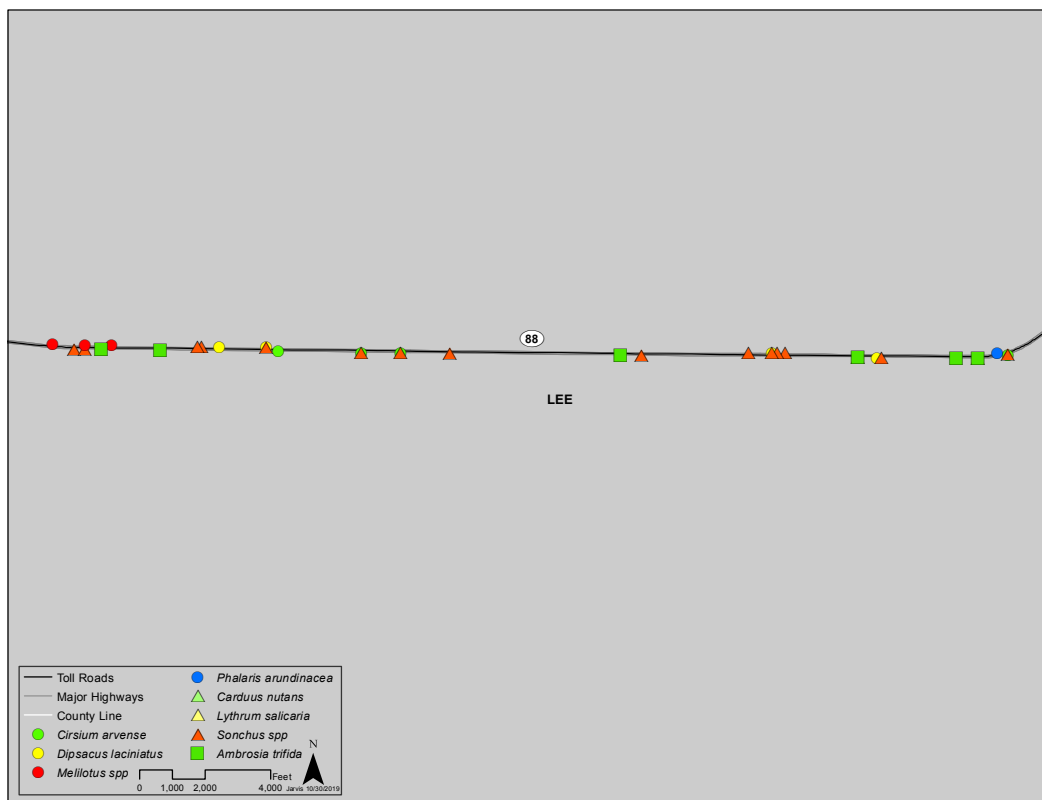
Map 1.12 Enlargement of section 12 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



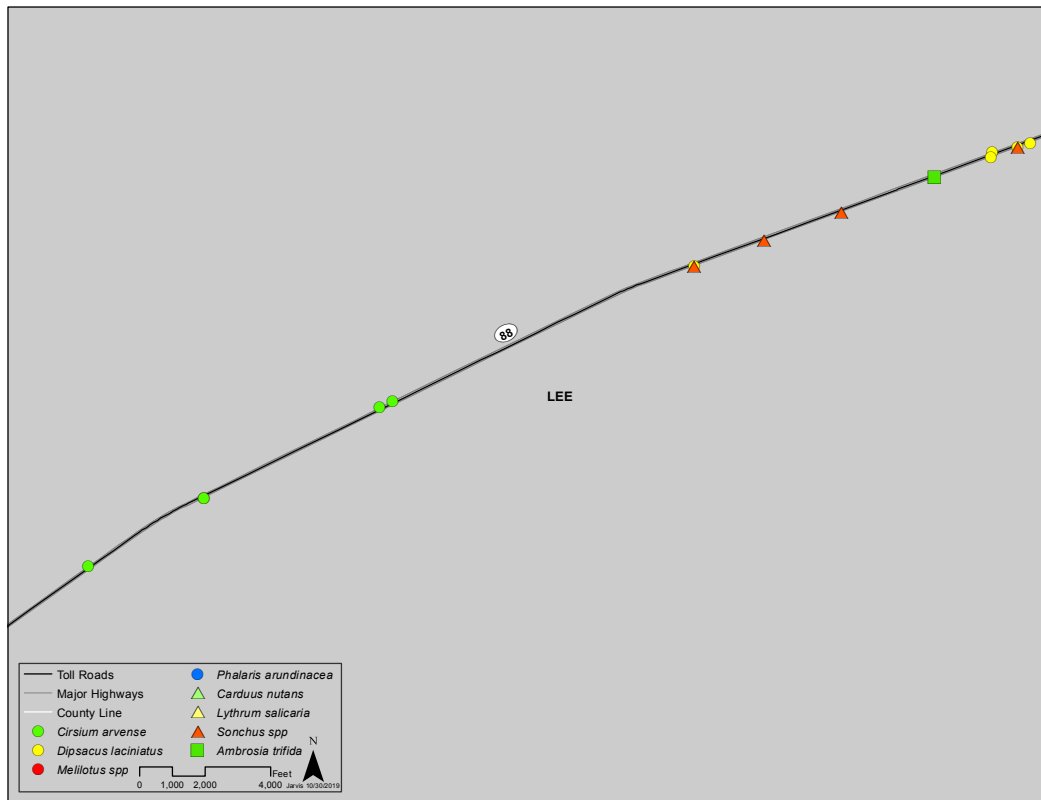
Map 1.13 Enlargement of section 13 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



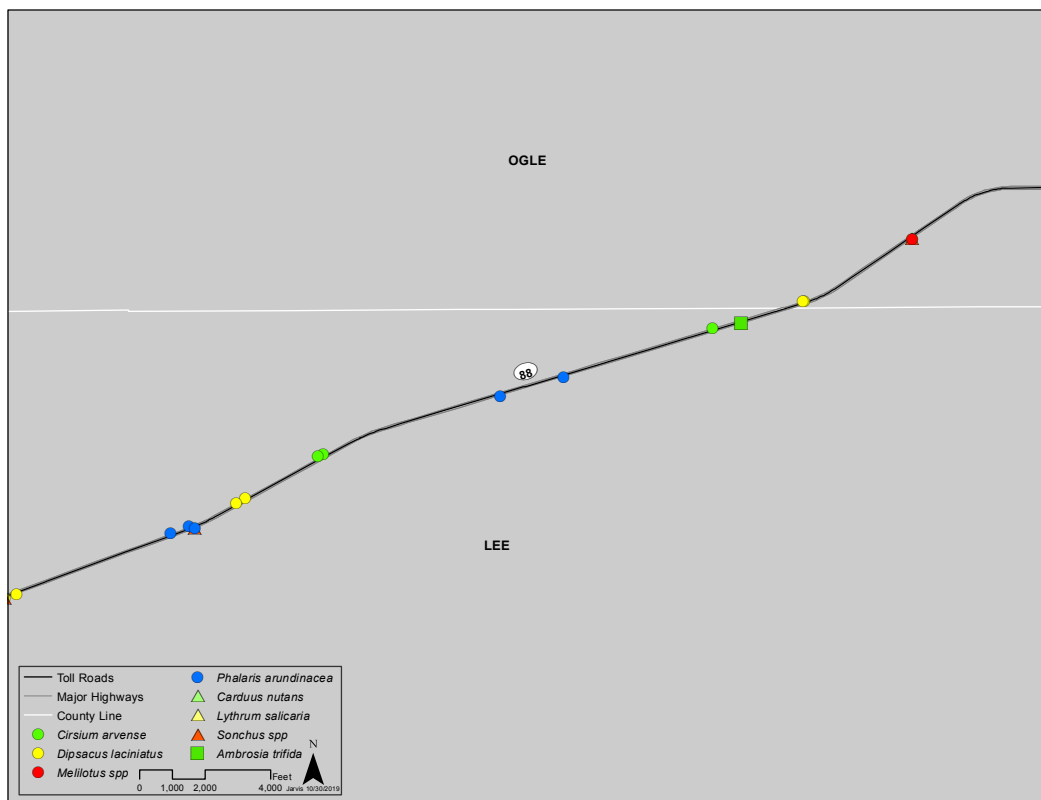
Map 1.14 Enlargement of section 14 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



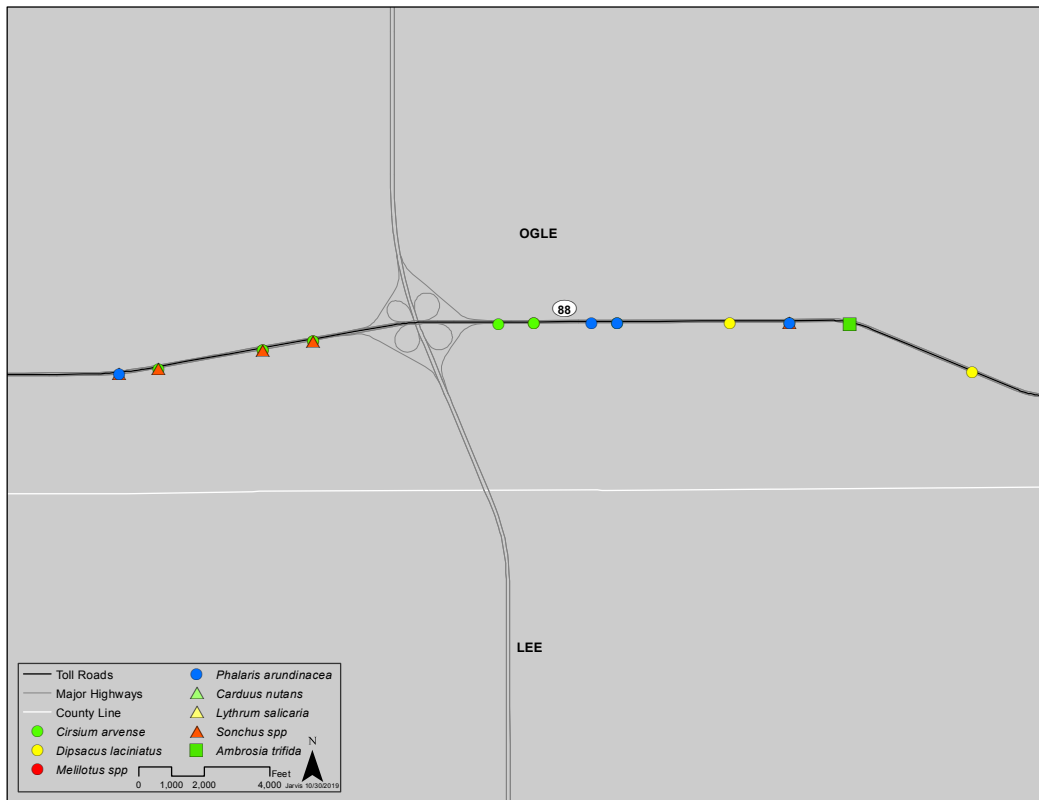
Map 1.15 Enlargement of section 15 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



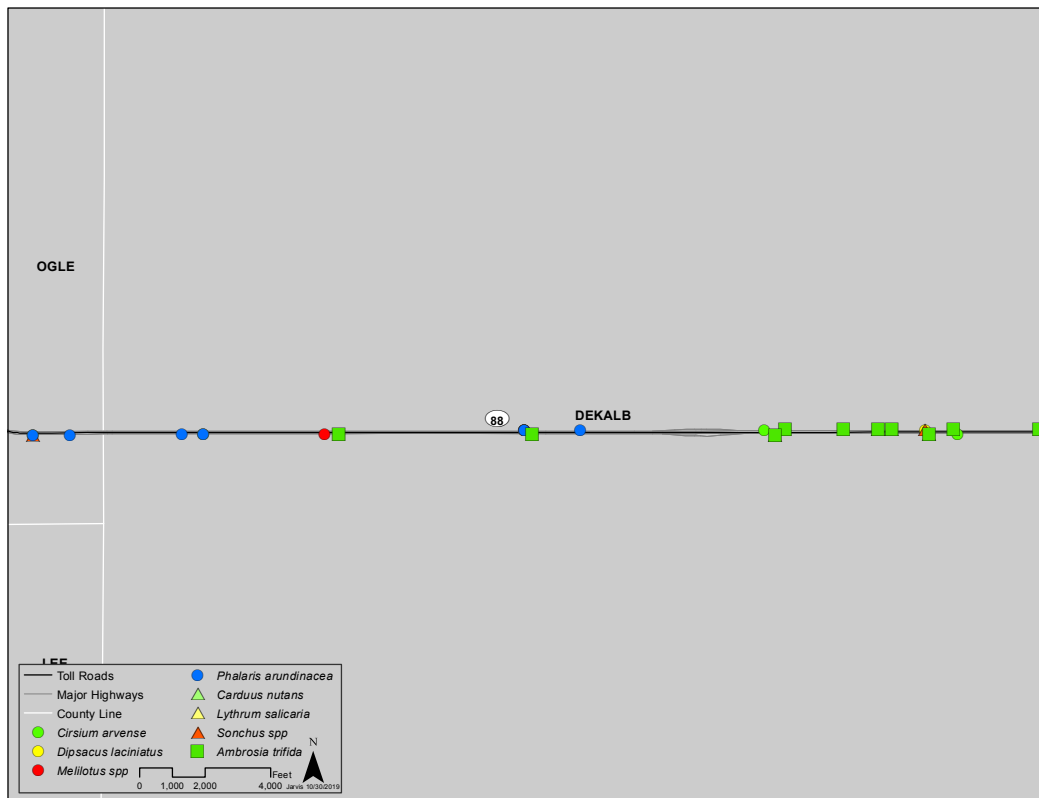
Map 1.16 Enlargement of section 16 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



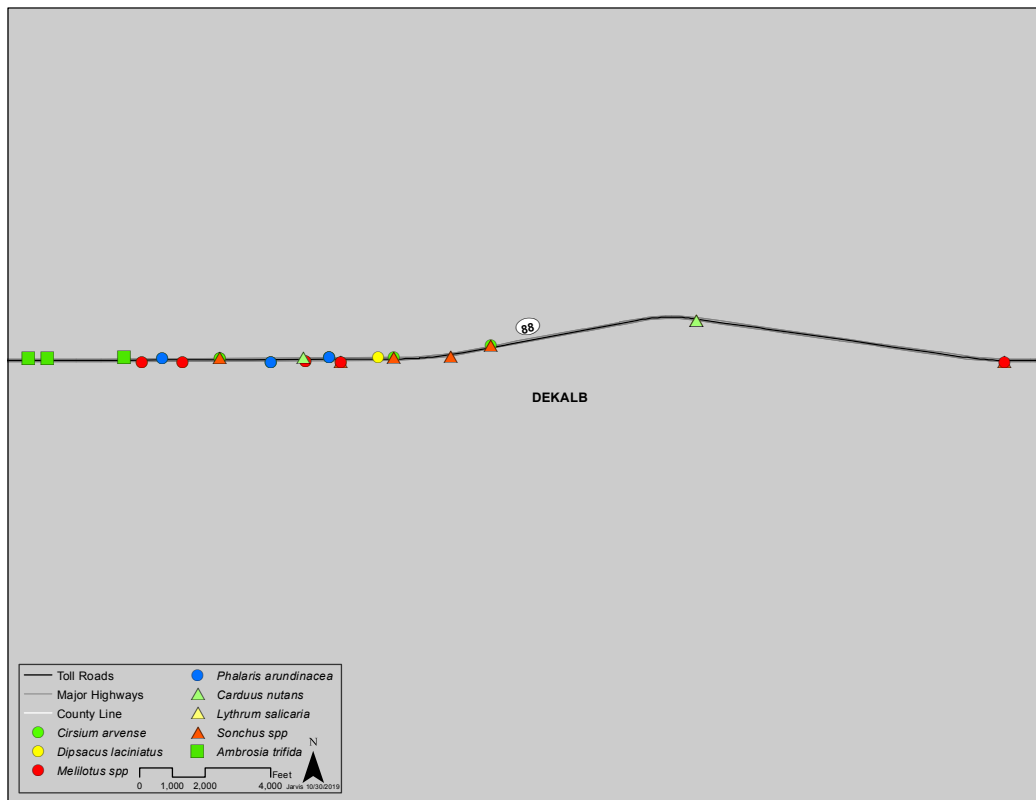
Map 1.17 Enlargement of section 17 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



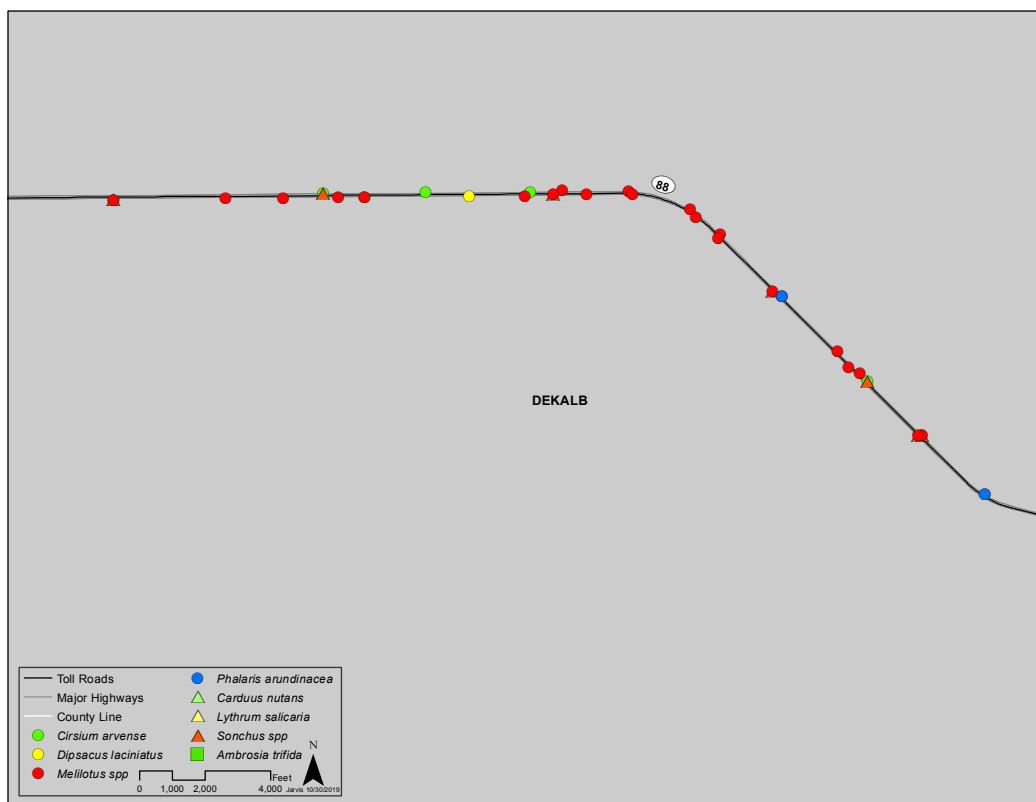
Map 1.18 Enlargement of section 18 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



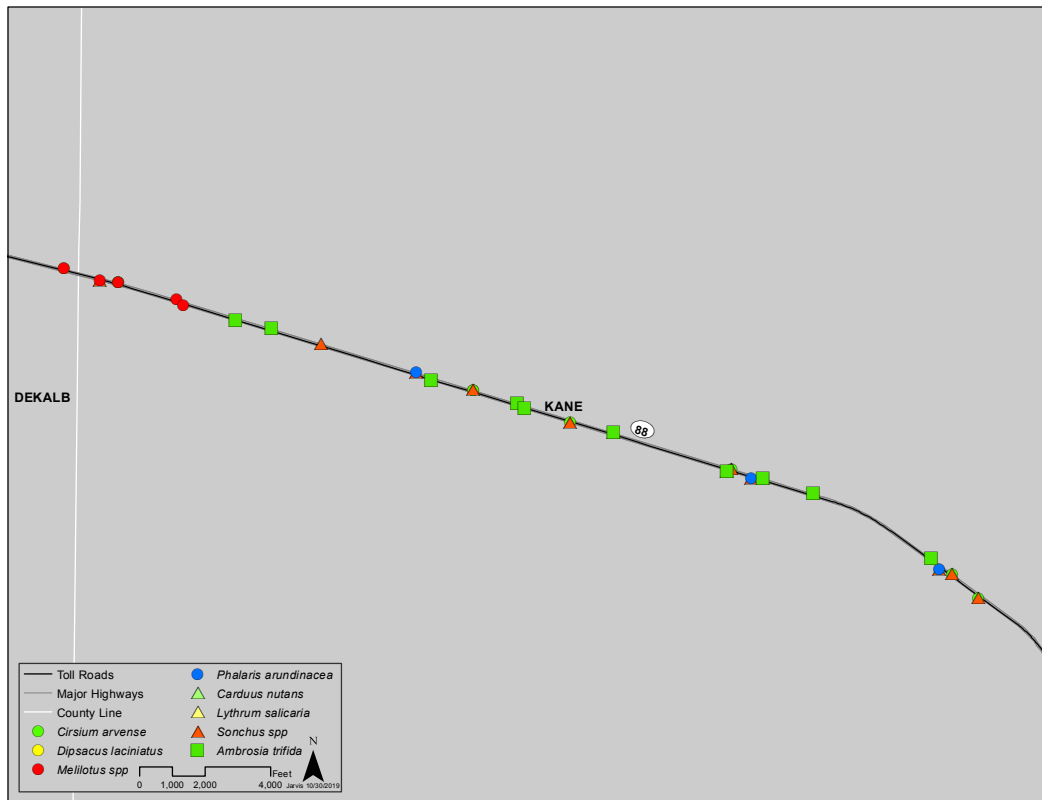
Map 1.19 Enlargement of section 19 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



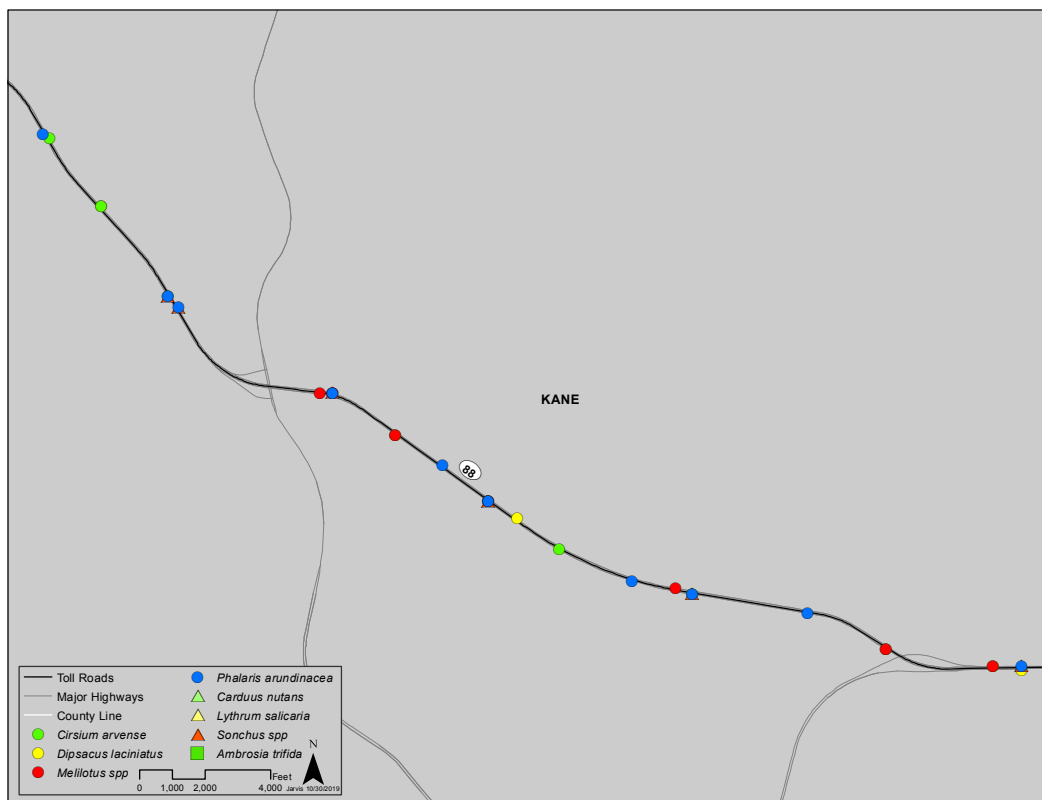
Map 1.20 Enlargement of section 20 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



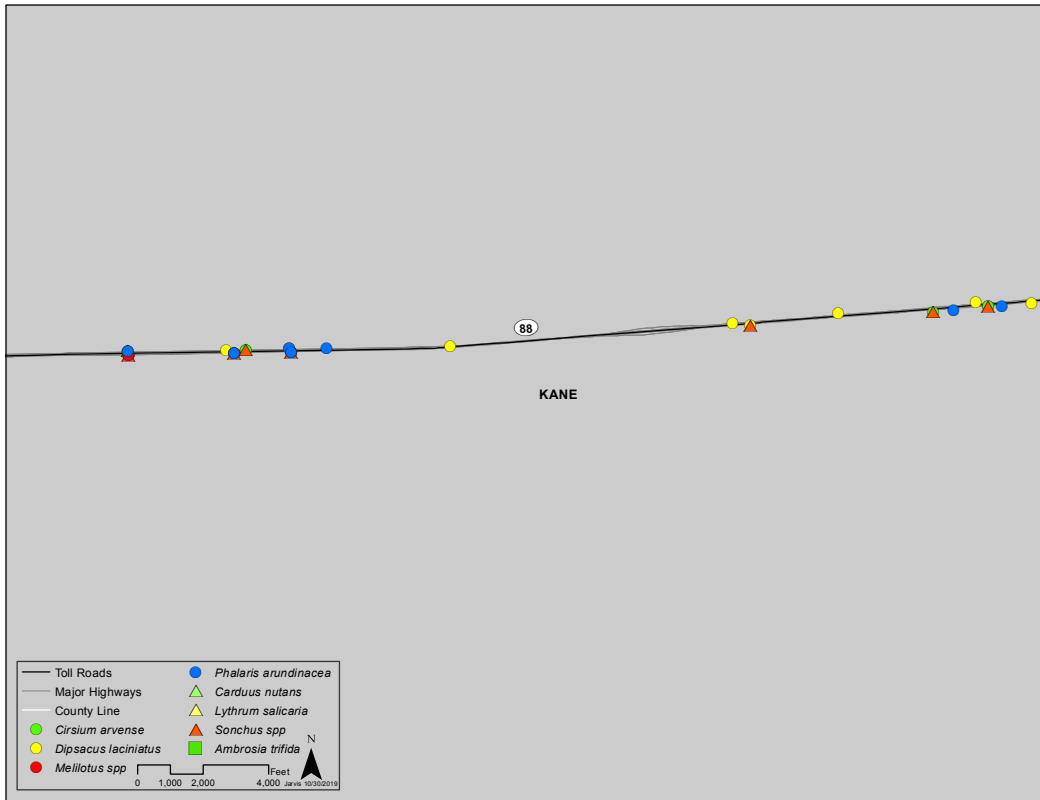
Map 1.21 Enlargement of section 21 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



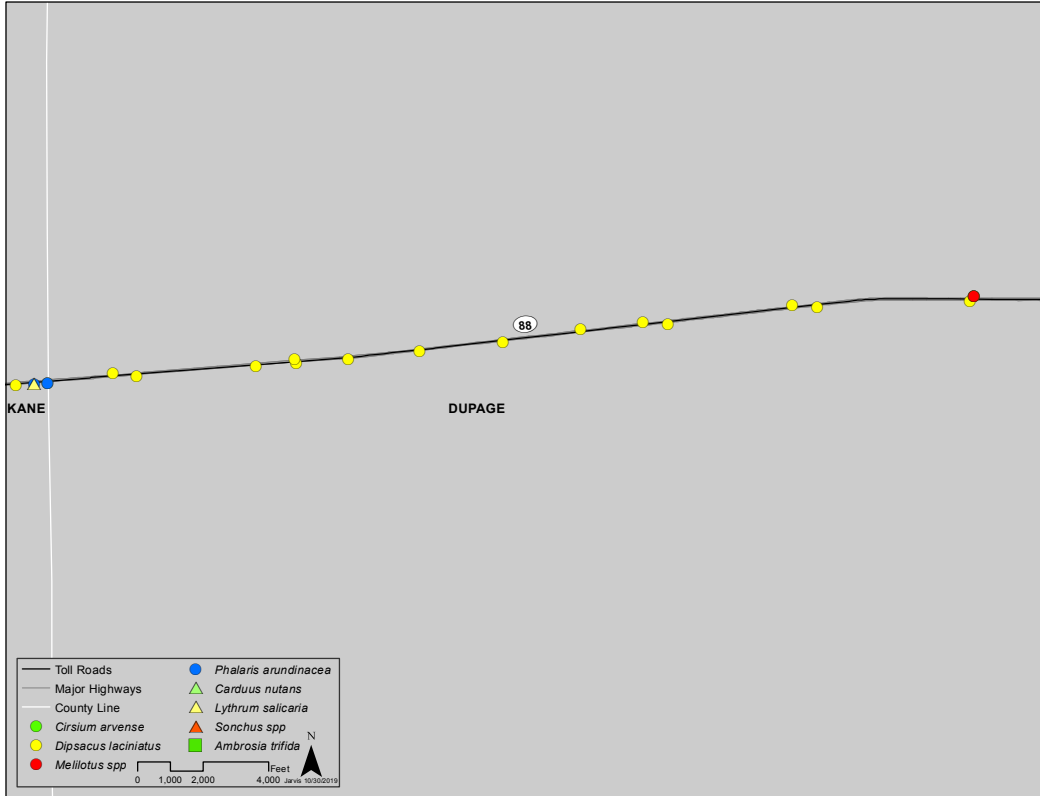
Map 1.22 Enlargement of section 22 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



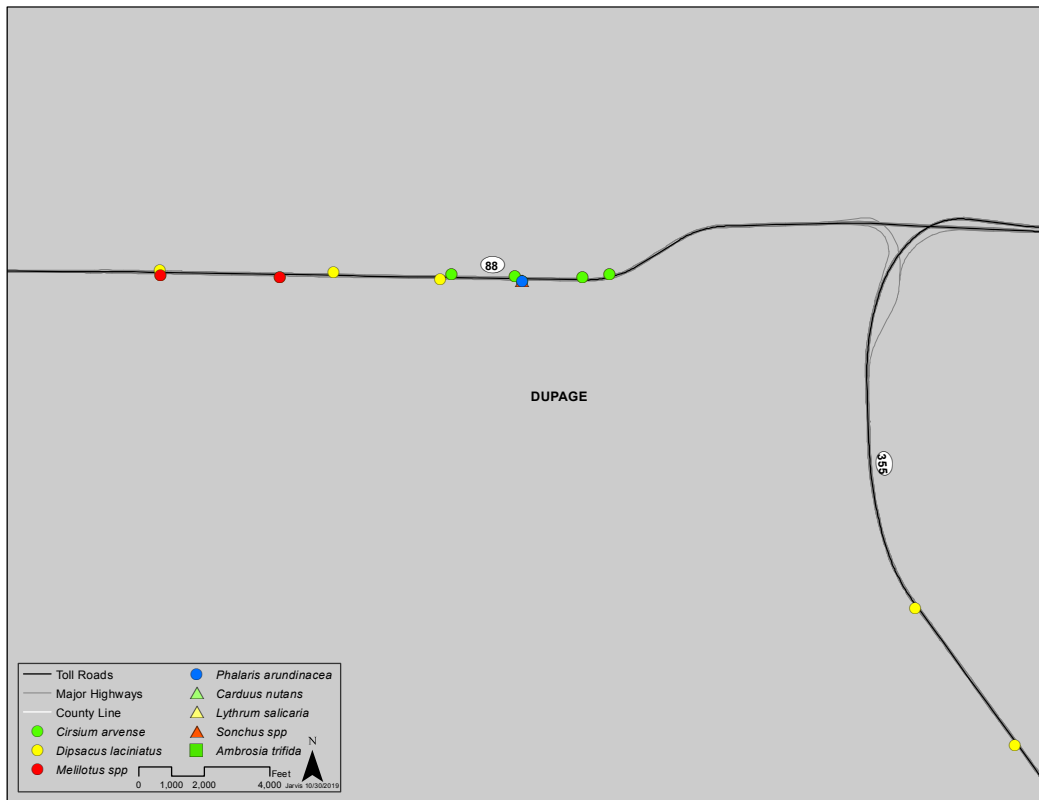
Map 1.23 Enlargement of section 23 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



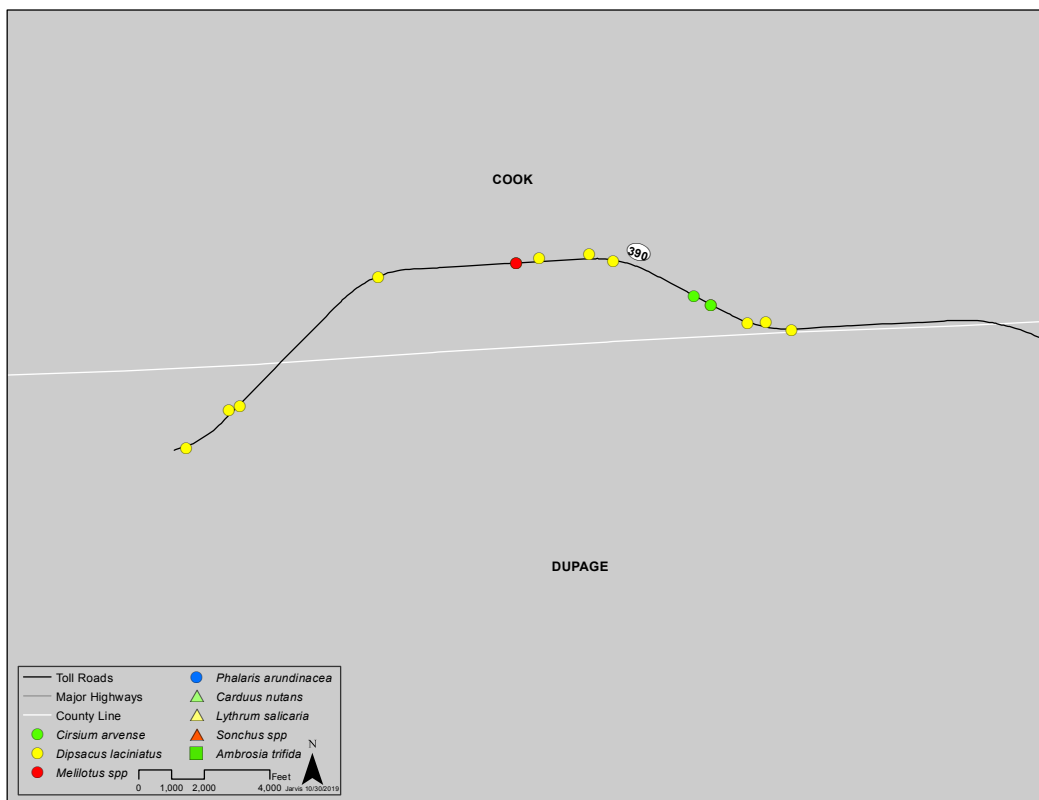
Map 1.24 Enlargement of section 24 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



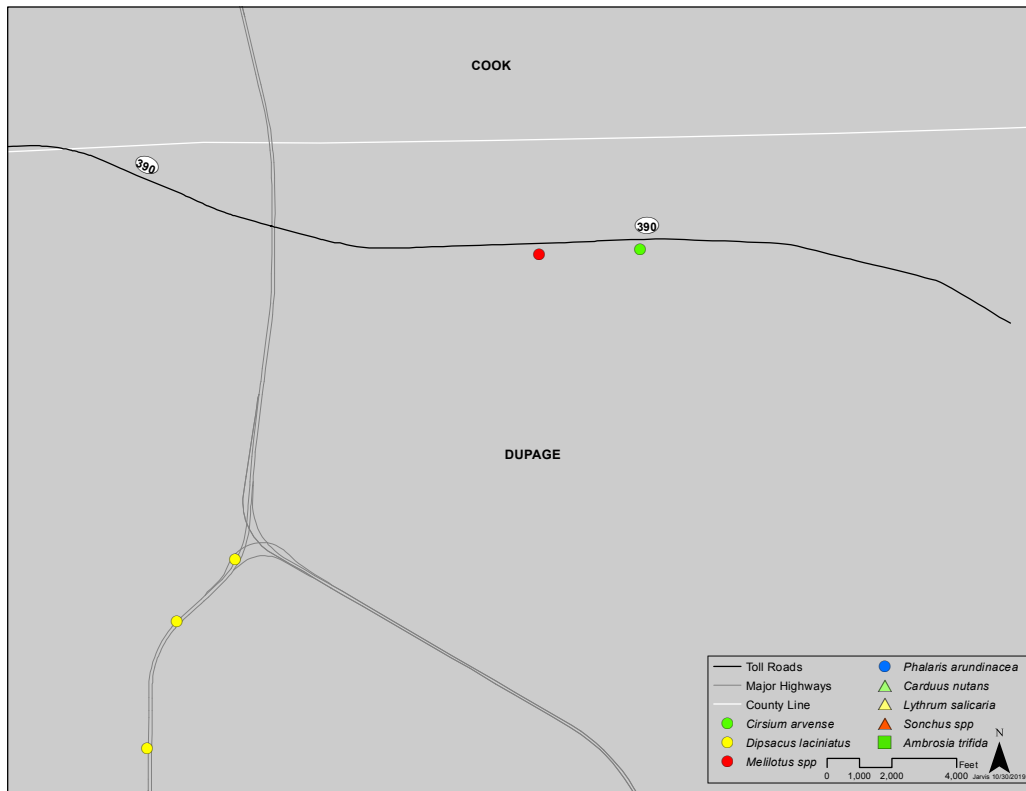
Map 1.25 Enlargement of section 25 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



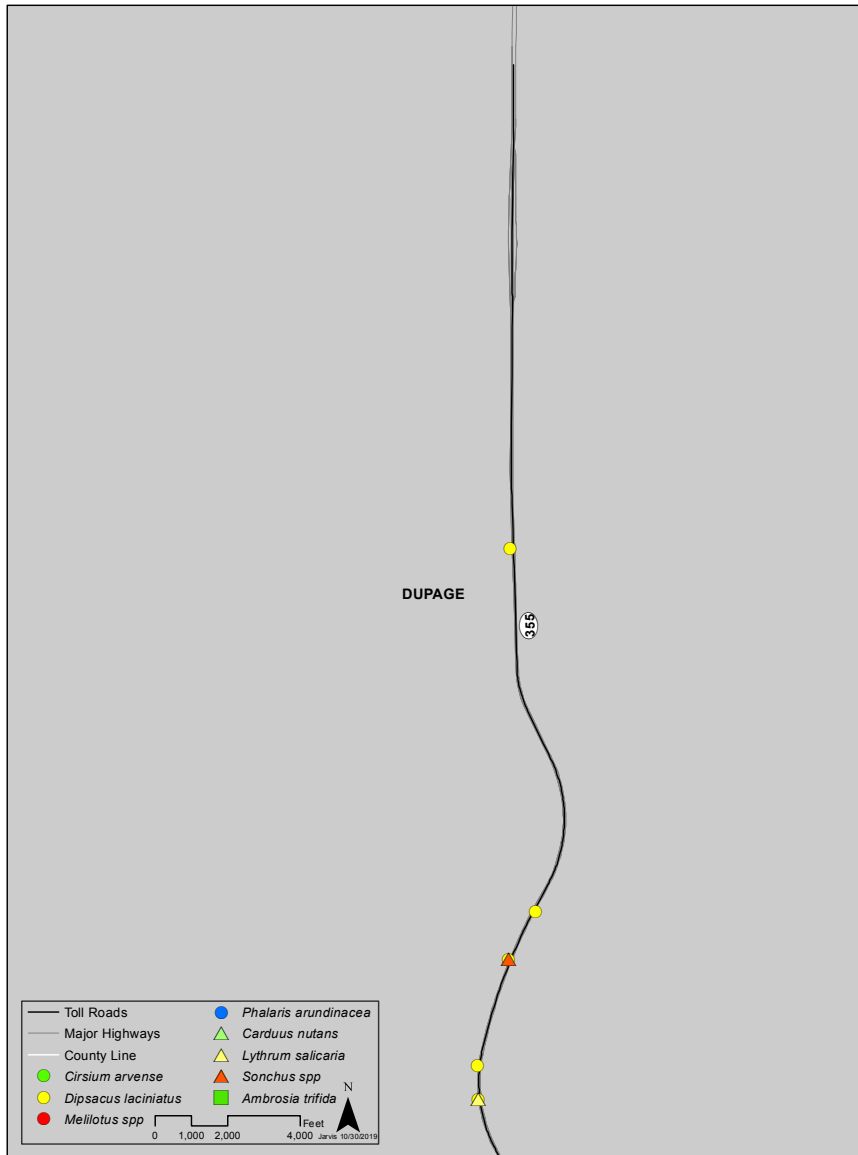
Map 1.26 Enlargement of section 26 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



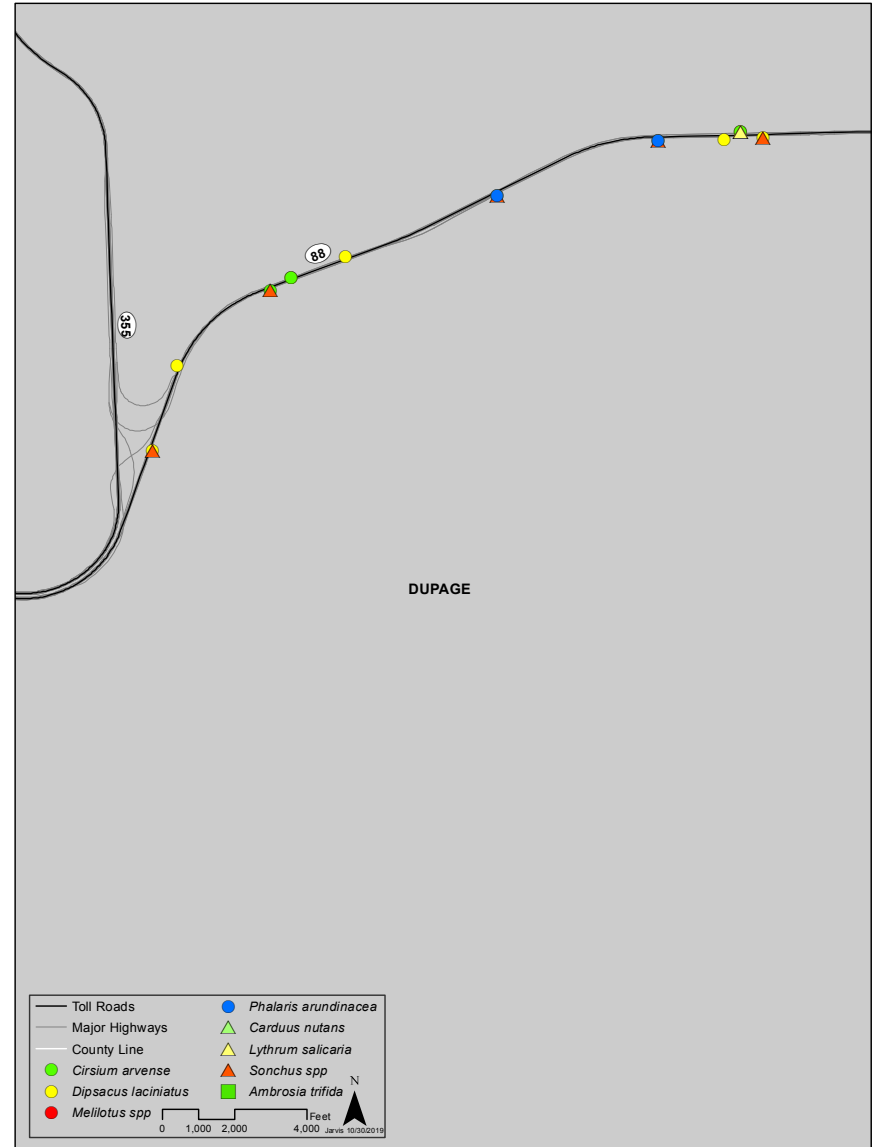
Map 1.27 Enlargement of section 27 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



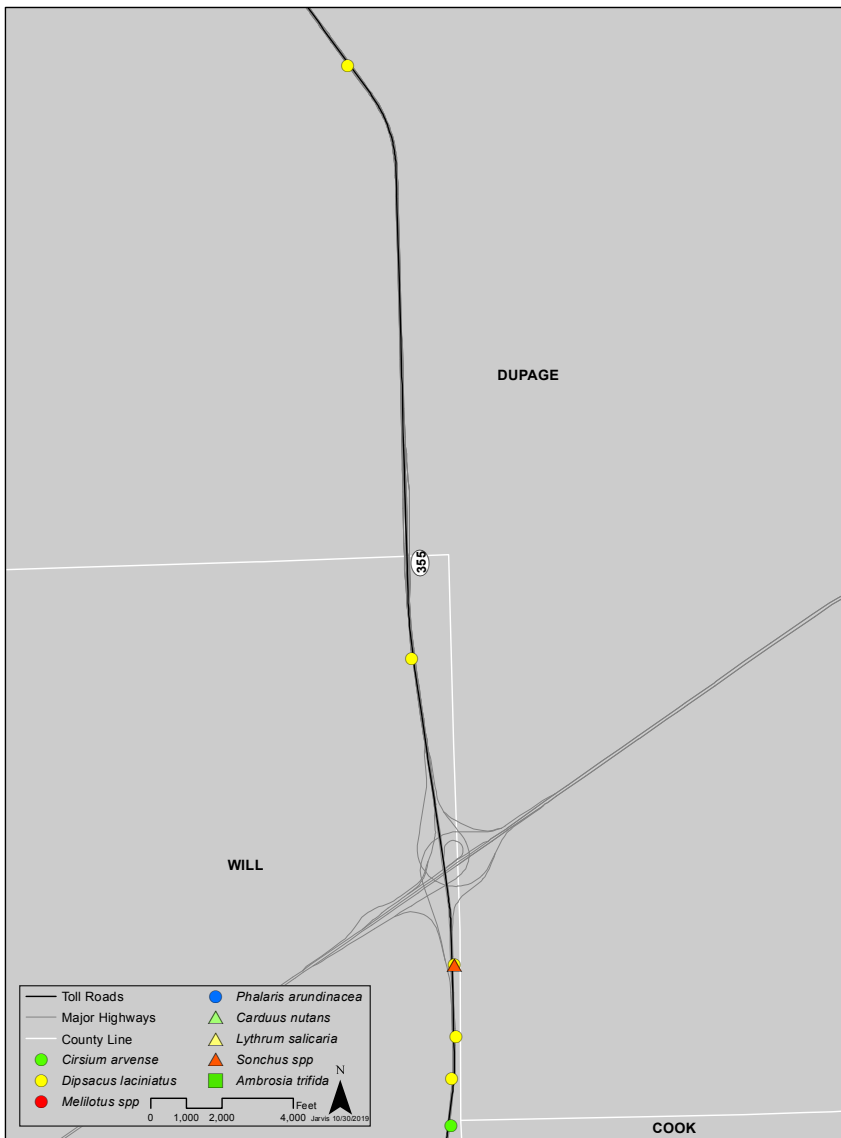
Map 1.28 Enlargement of section 28 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



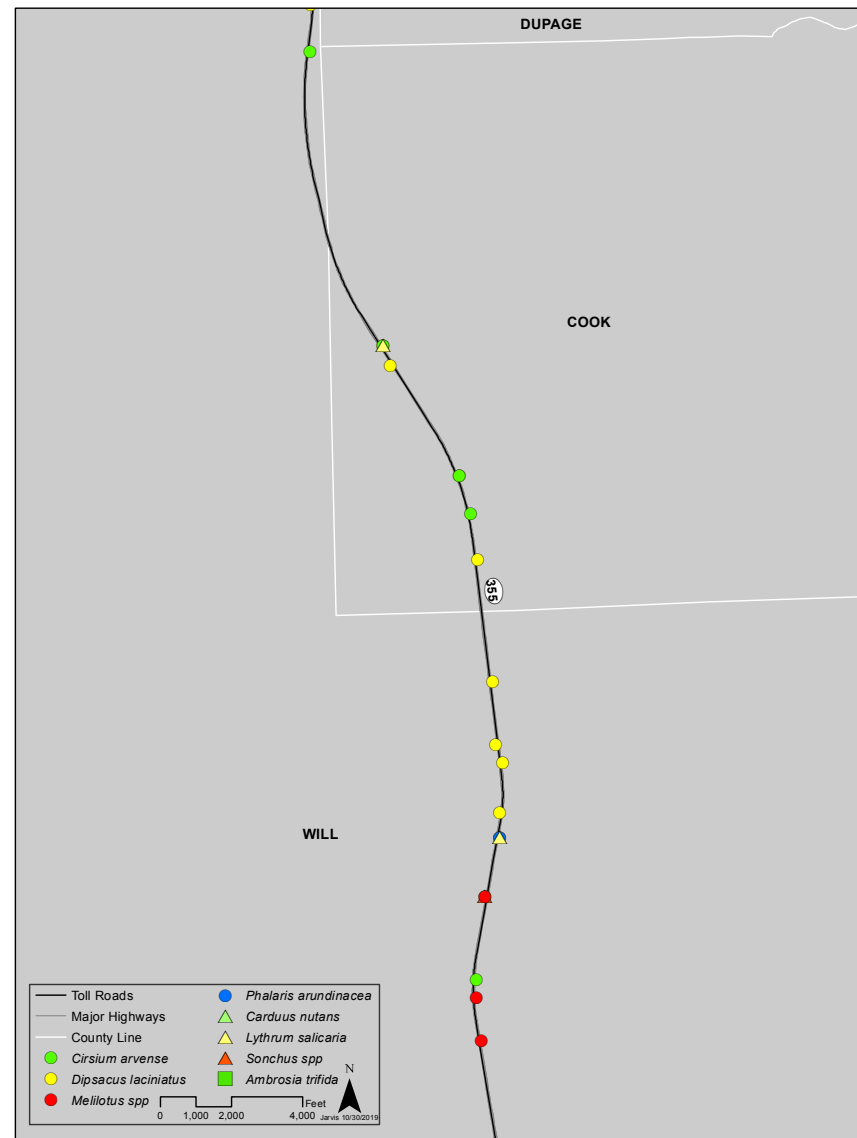
Map 1.29 Enlargement of section 29 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



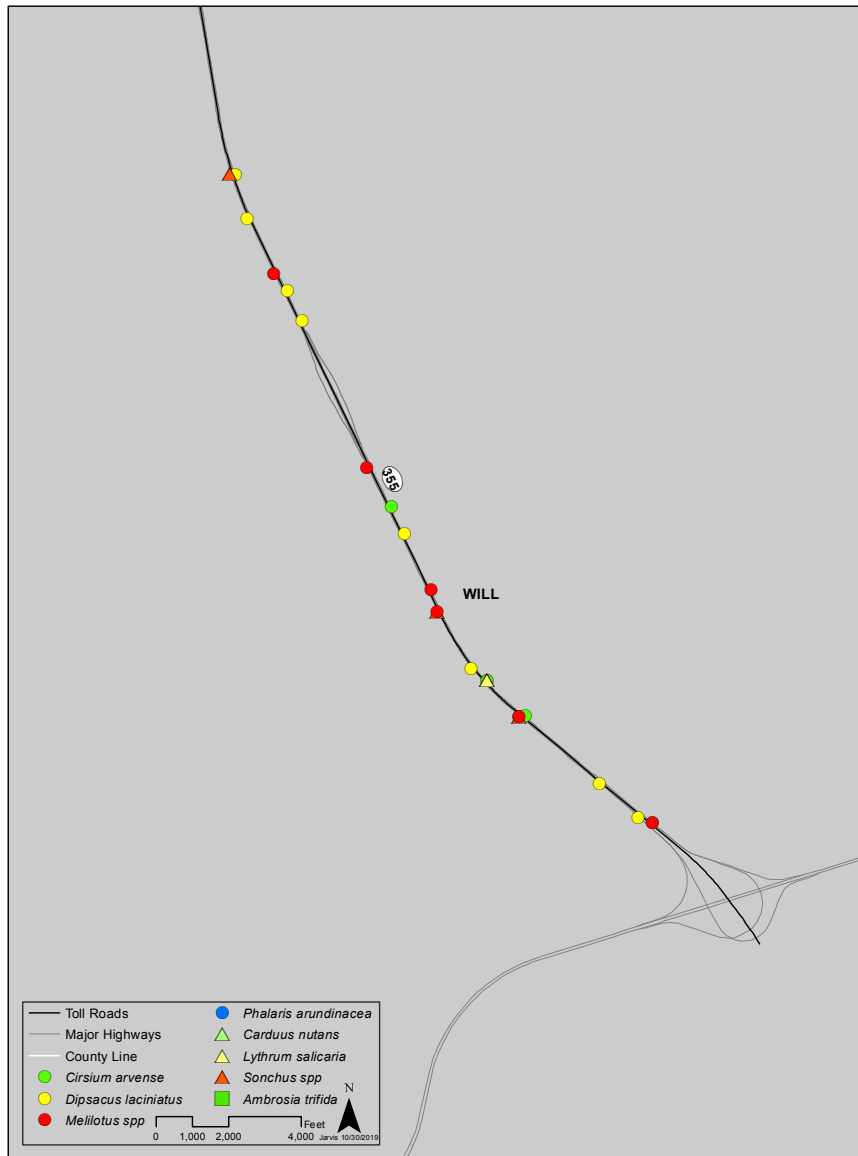
Map 1.30 Enlargement of section 30 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



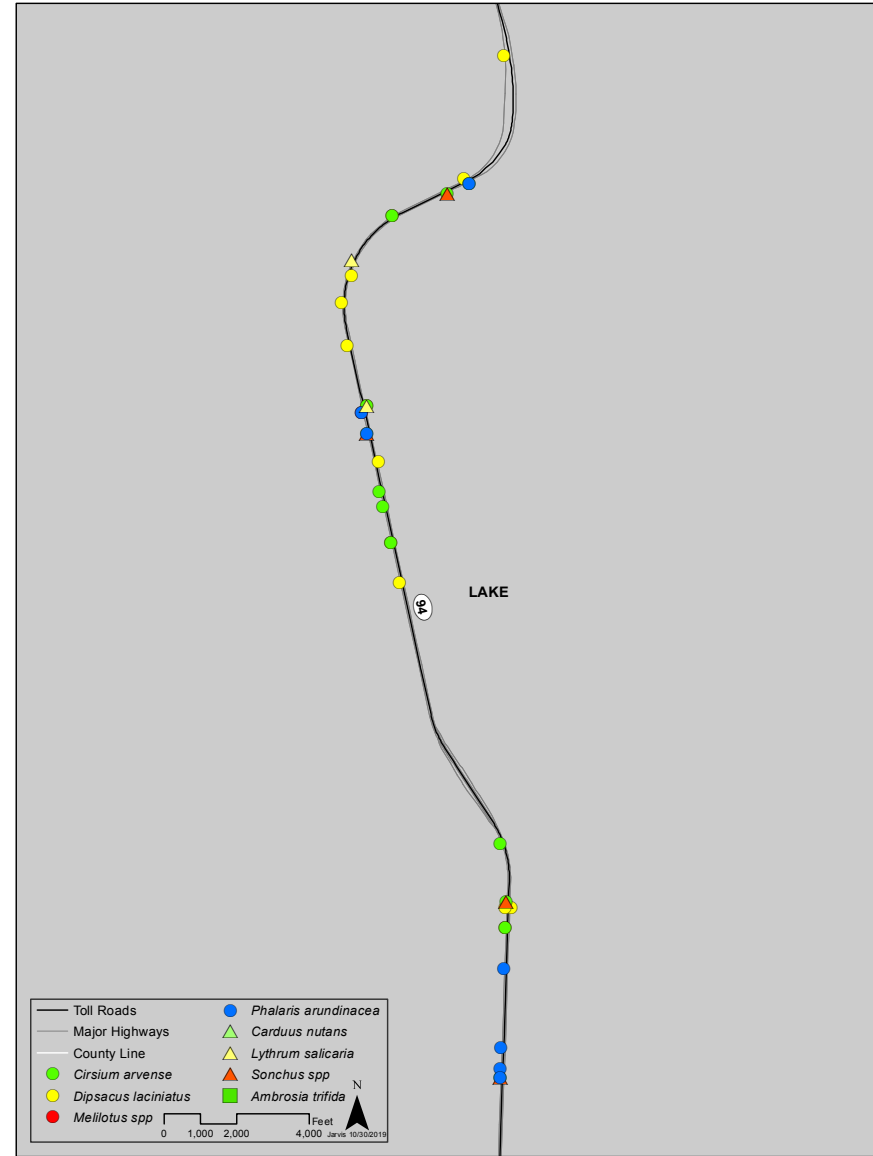
Map 1.31 Enlargement of section 31 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



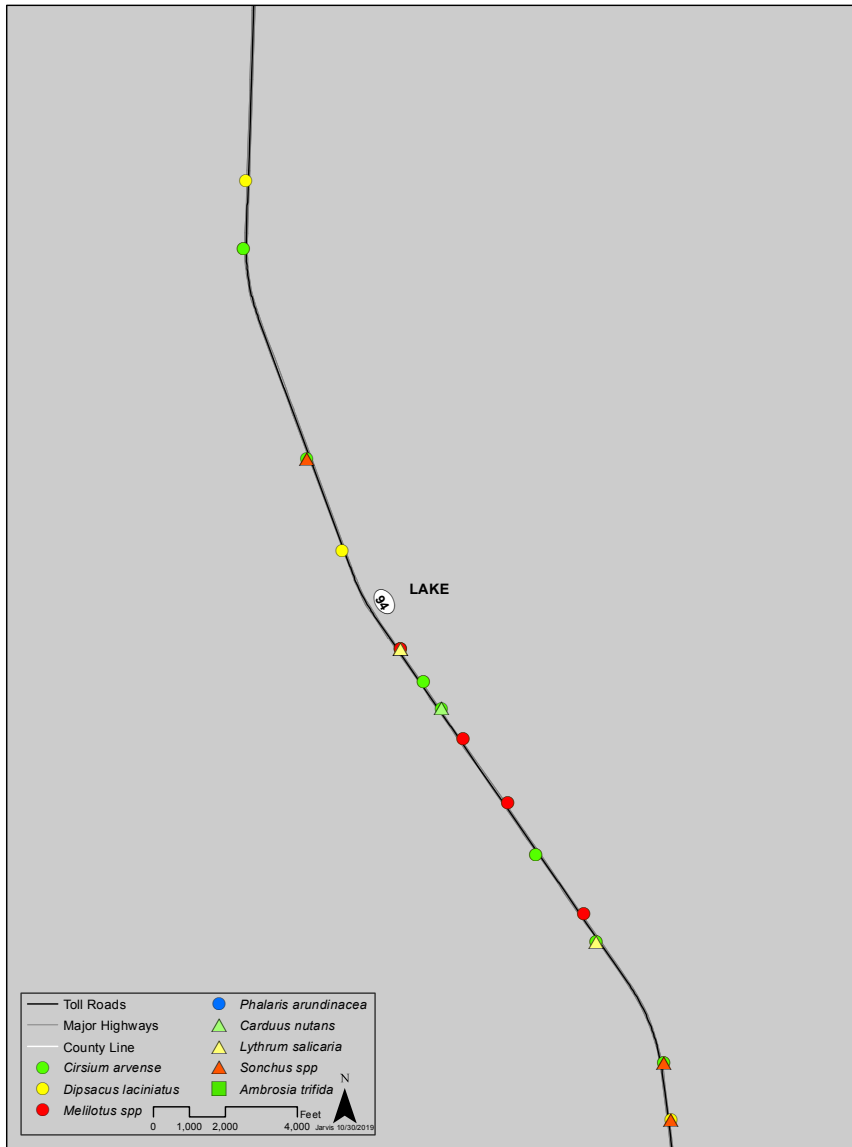
Map 1.32 Enlargement of section 32 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



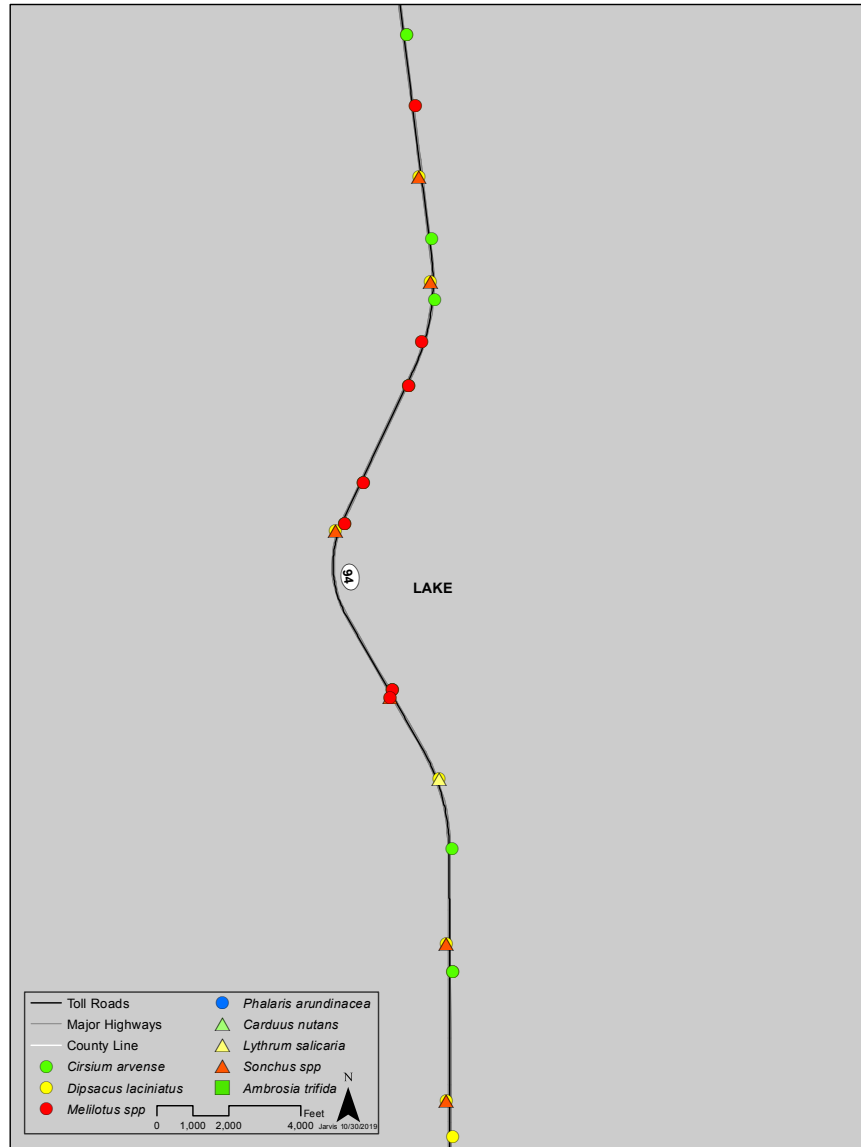
Map 1.33 Enlargement of section 33 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



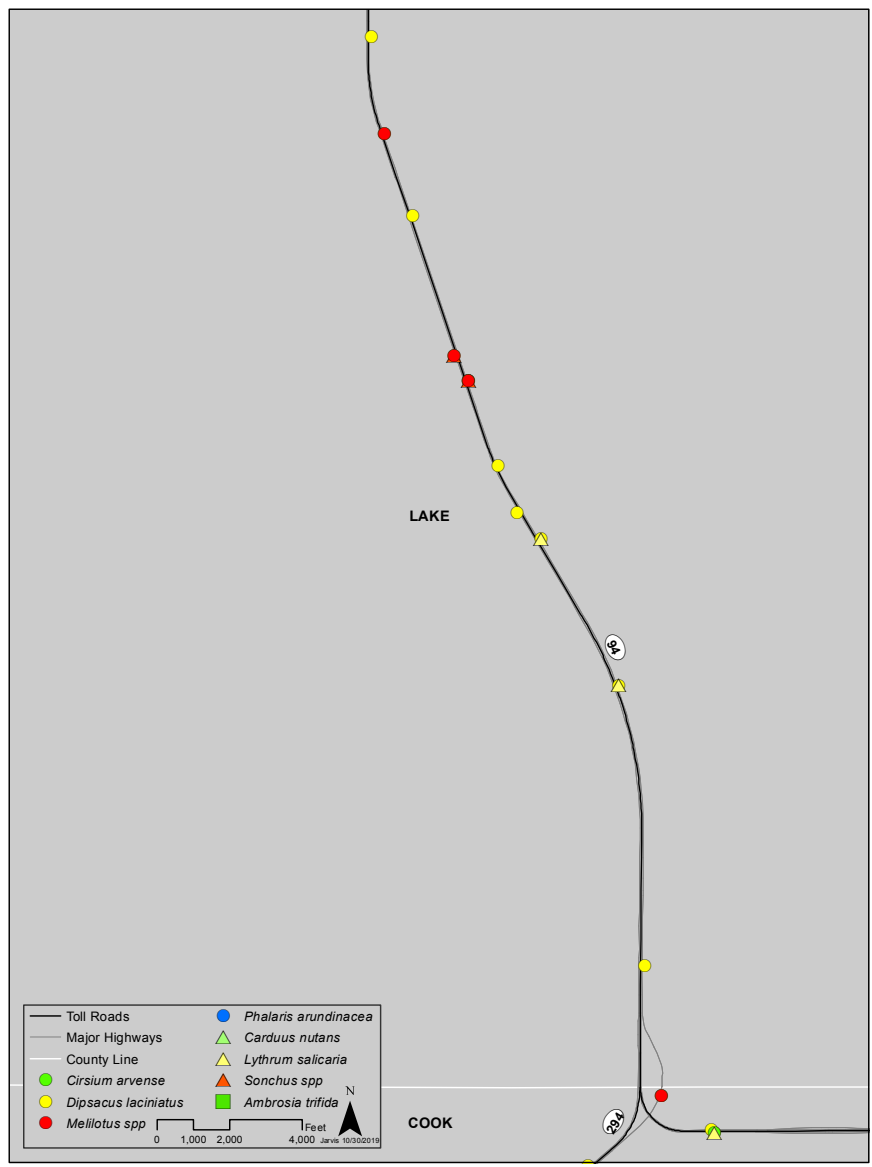
Map 1.34 Enlargement of section 34 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



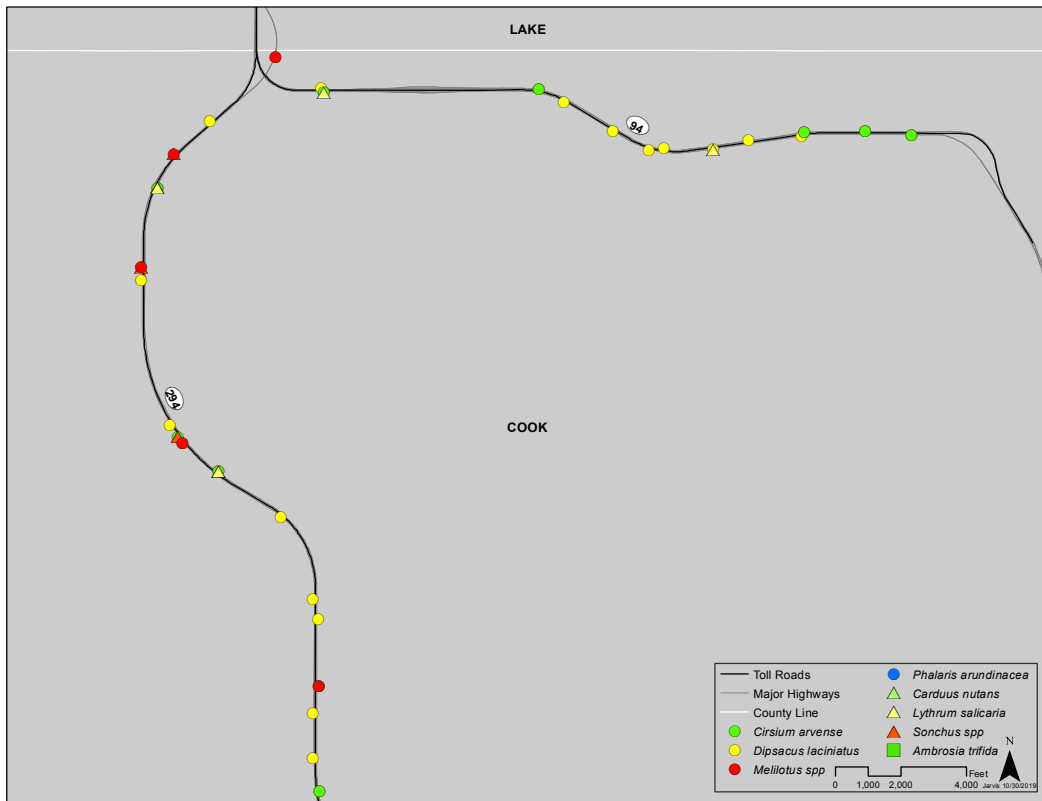
Map 1.35 Enlargement of section 35 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



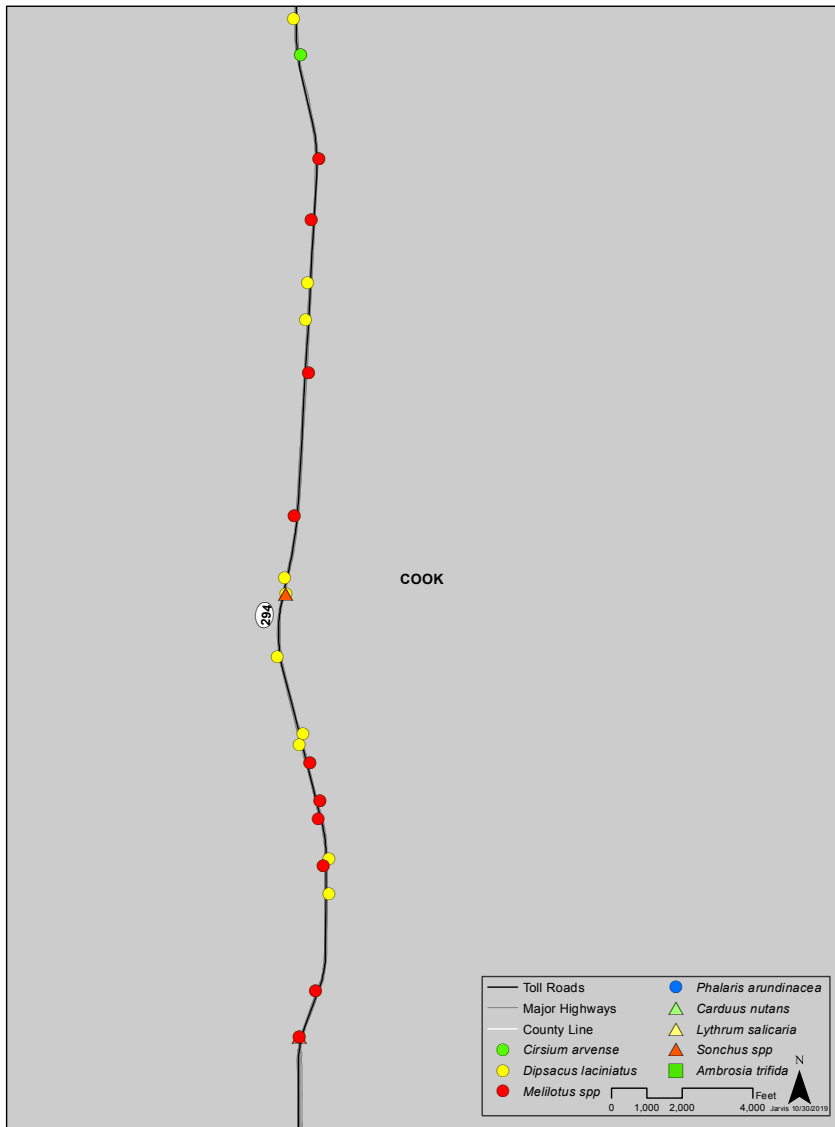
Map 1.36 Enlargement of section 36 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



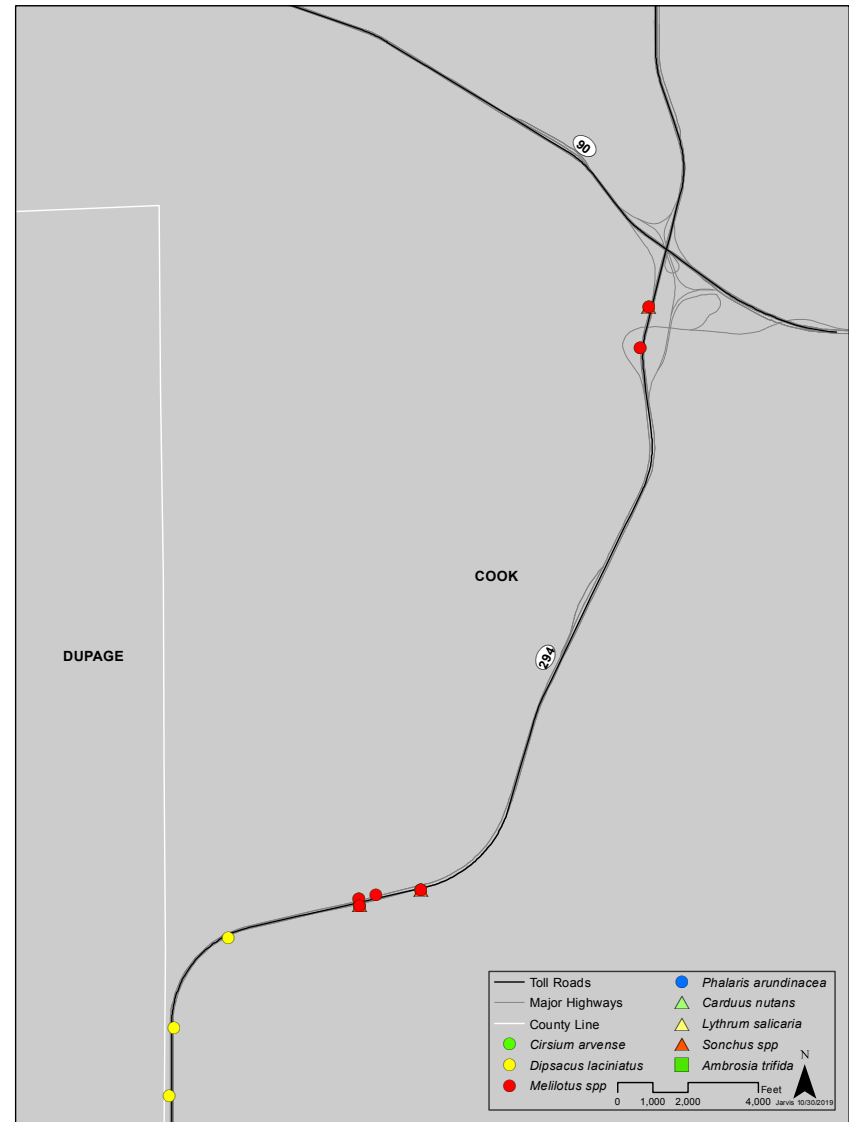
Map 1.37 Enlargement of section 37 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



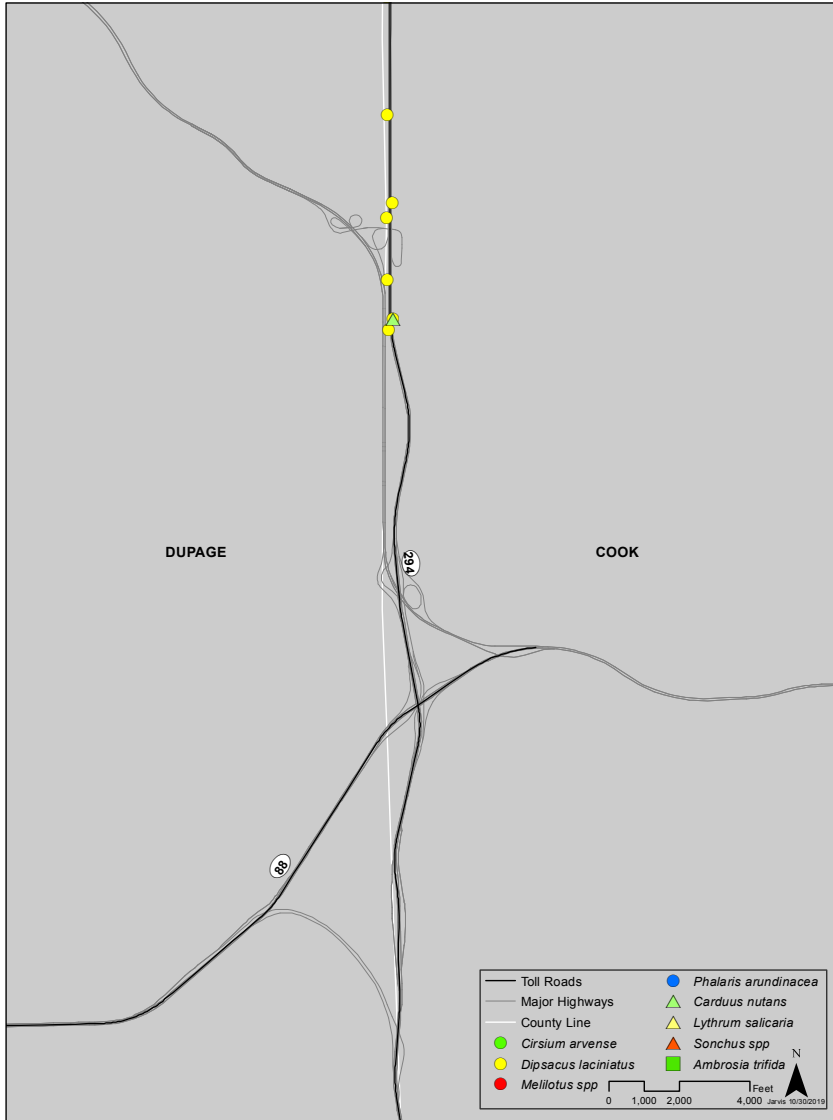
Map 1.38 Enlargement of section 38 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



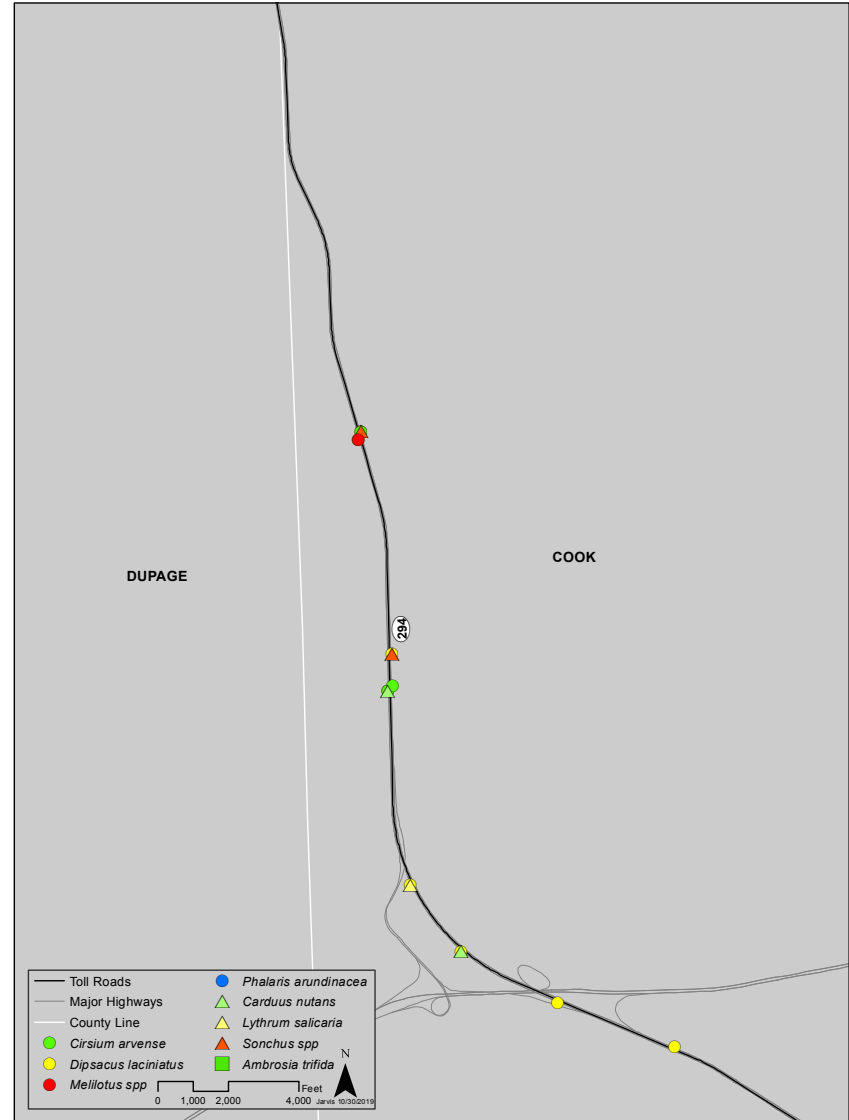
Map 1.39 Enlargement of section 39 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



Map 1.40 Enlargement of section 40 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



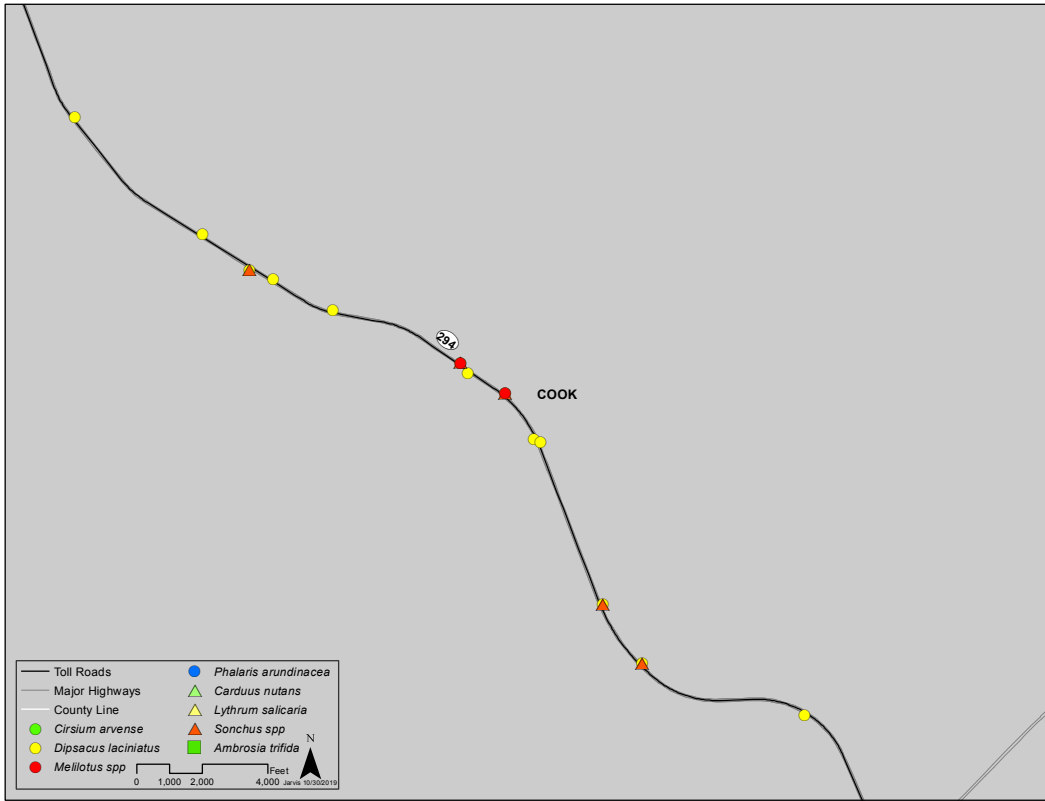
Map 1.41 Enlargement of section 41 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



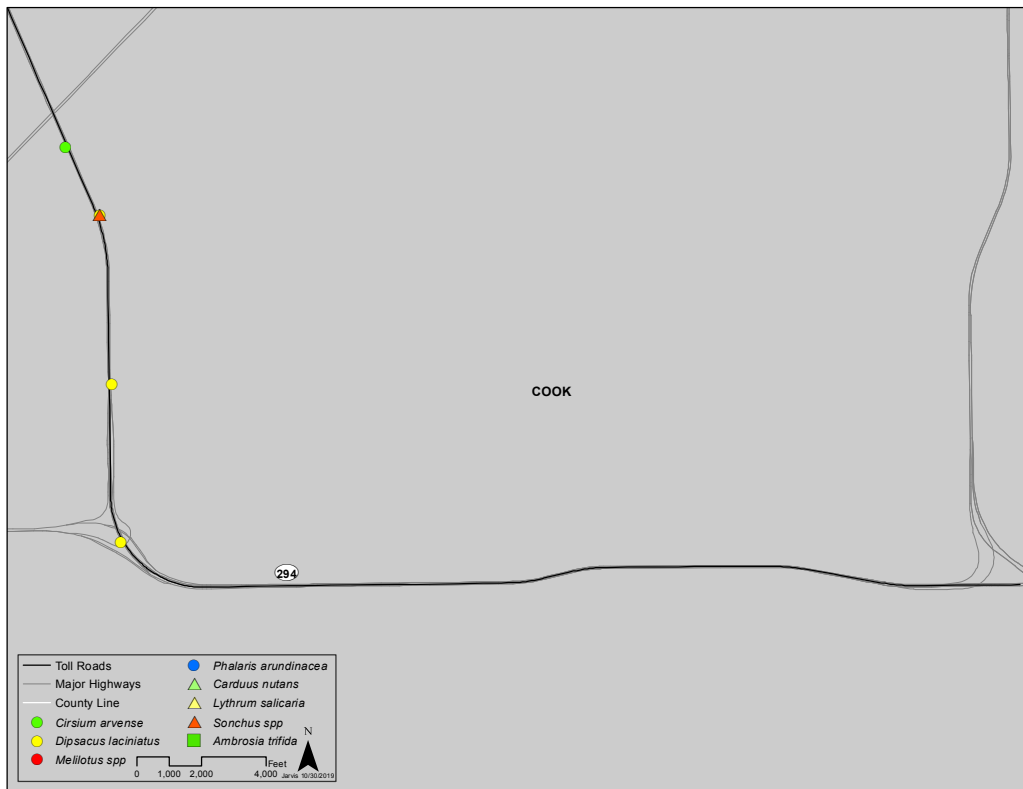
Map 1.42 Enlargement of section 42 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



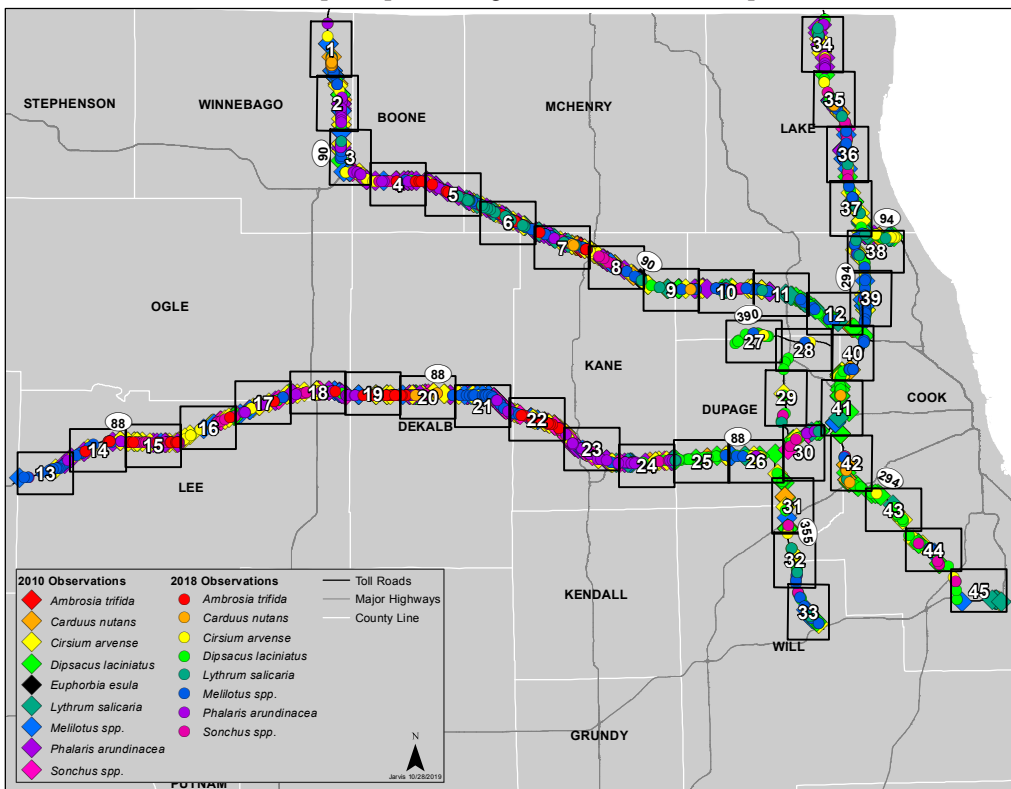
Map 1.43 Enlargement of section 43 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



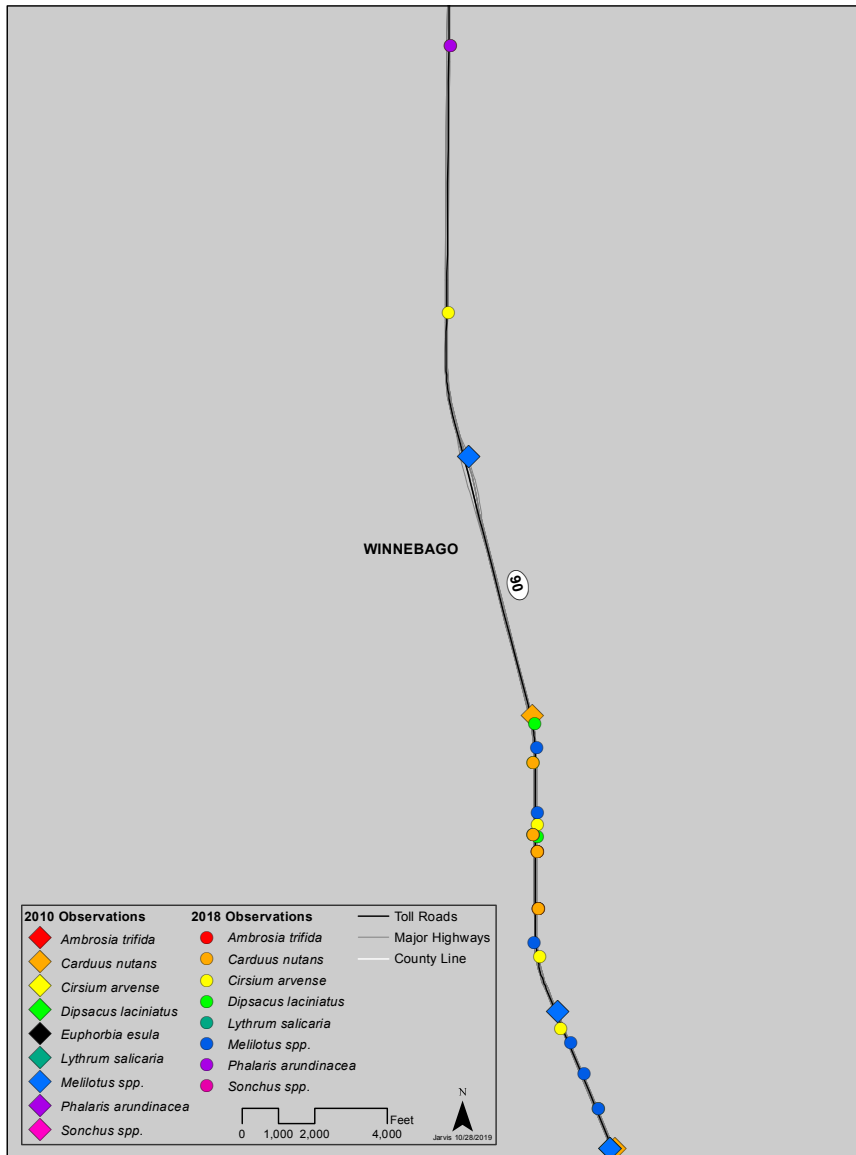
Map 1.44 Enlargement of section 44 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



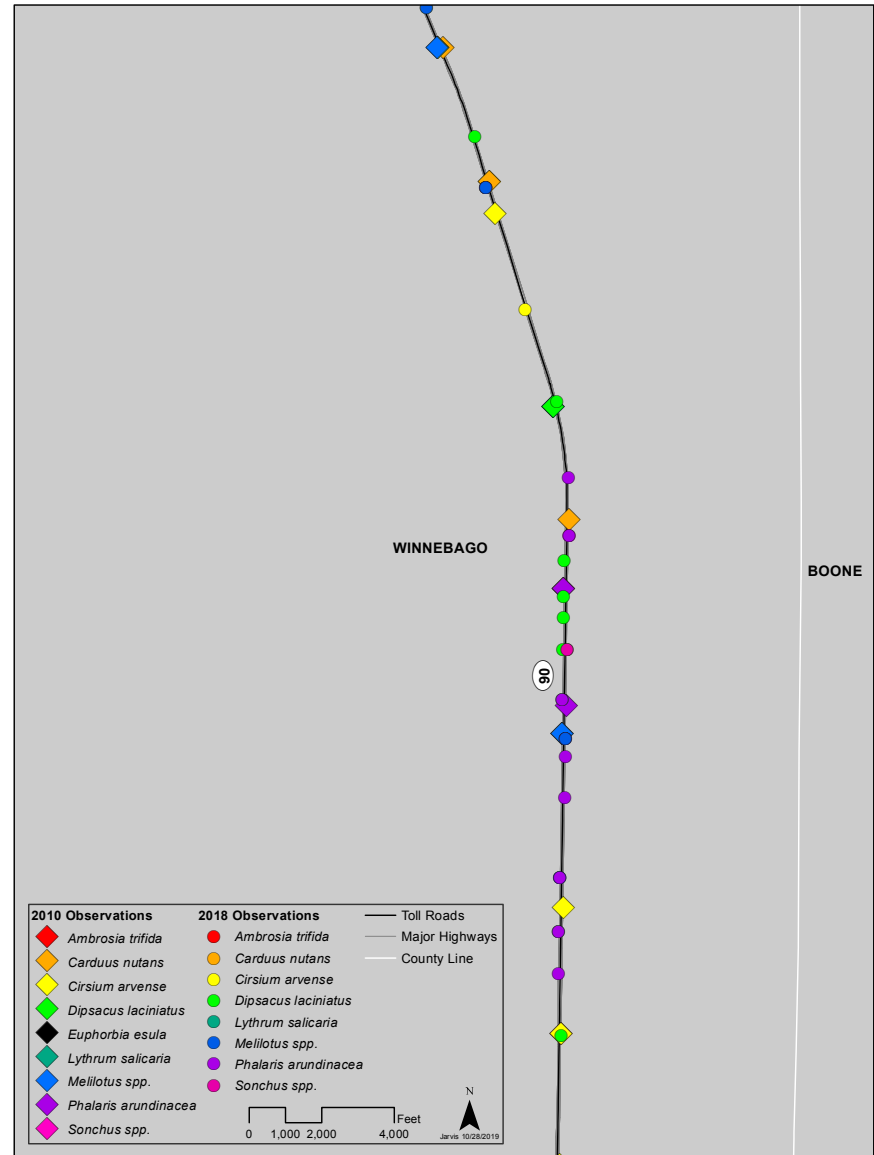
Map 1.45 Enlargement of section 45 on Map 1 showing distribution of noxious and invasive species throughout the ISTHA system. Refer to the overview map (Map 1) for regional orientation to map locations.



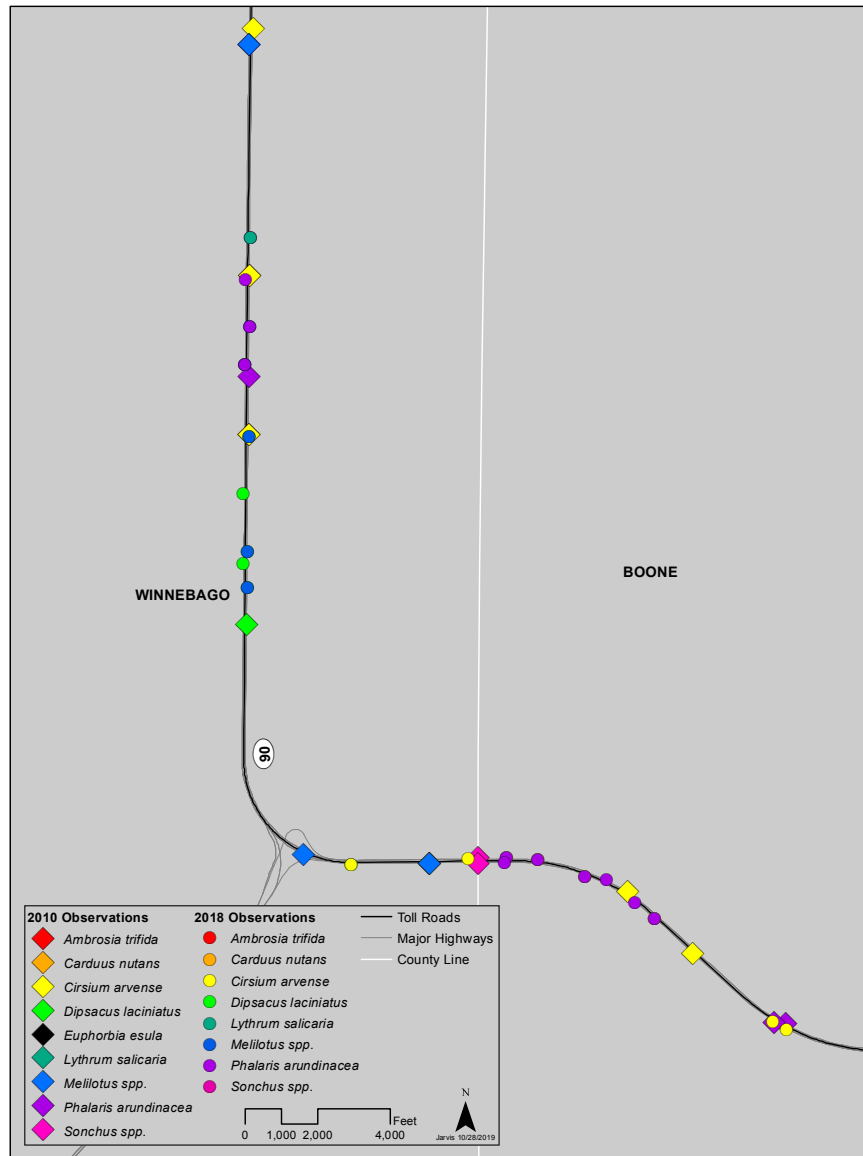
Map 2. Distribution of species mapped during the 2018 survey in comparison with data from 2010. Numbered rectangles identify the regional orientation of enlargement maps 2.1-2.45.



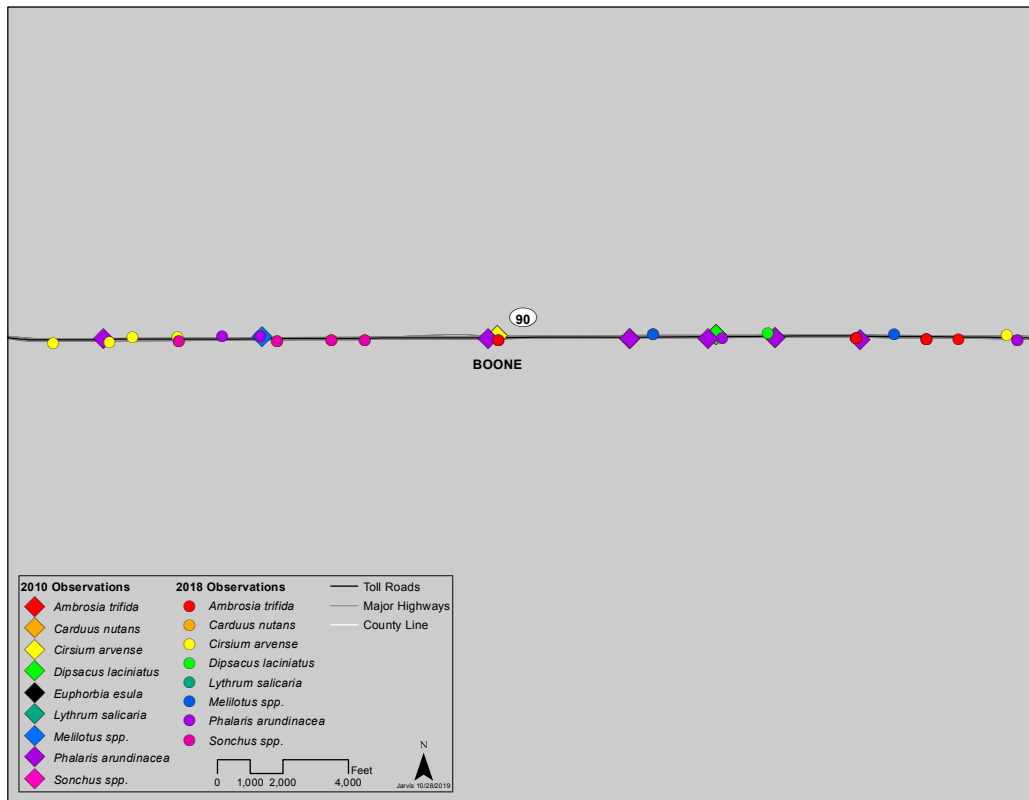
Map 2.1 Enlargement of section 1 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



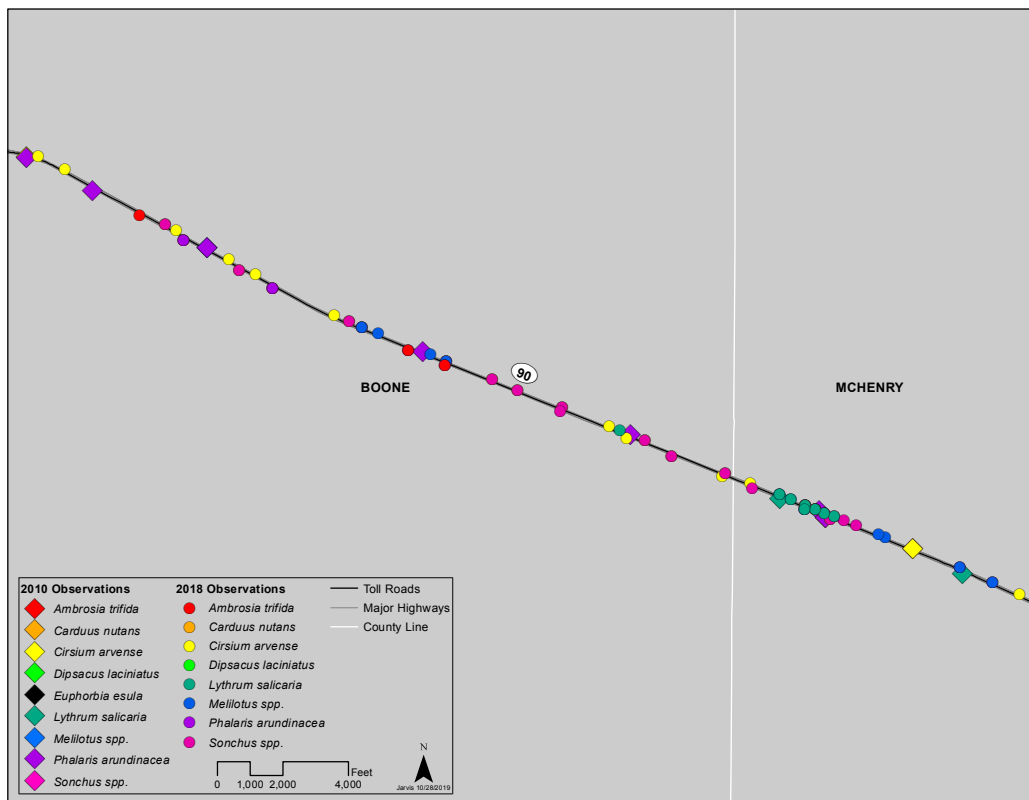
Map 2.2 Enlargement of section 2 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



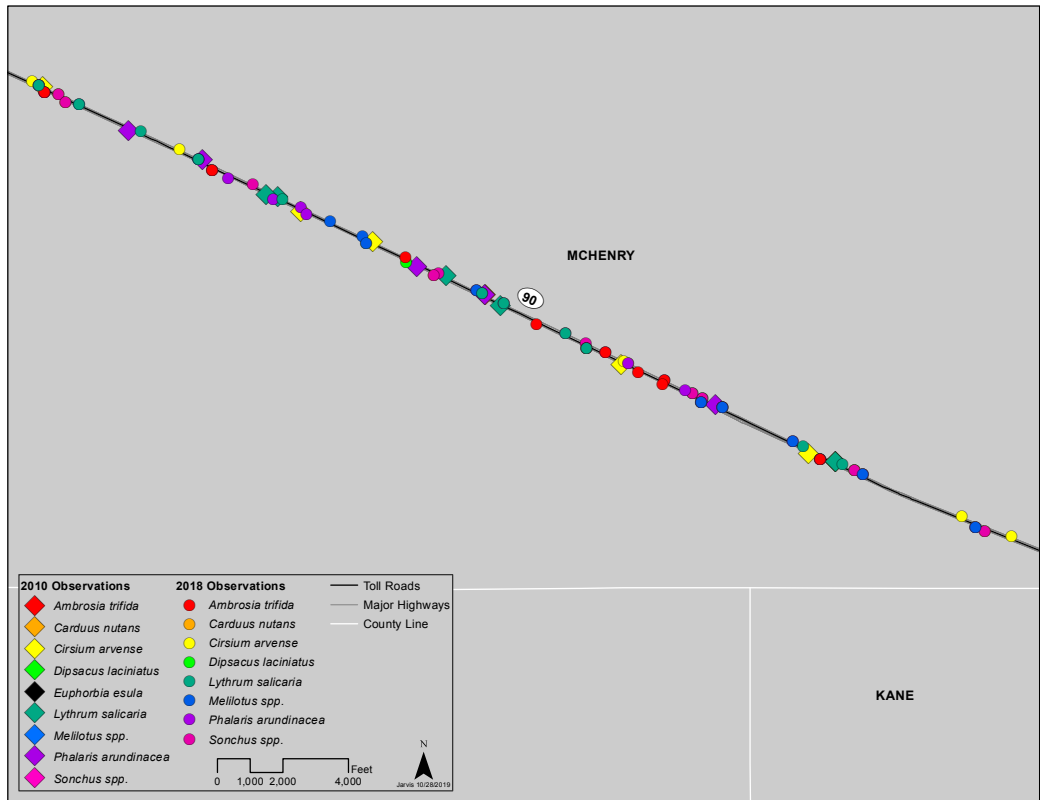
Map 2.3 Enlargement of section 3 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



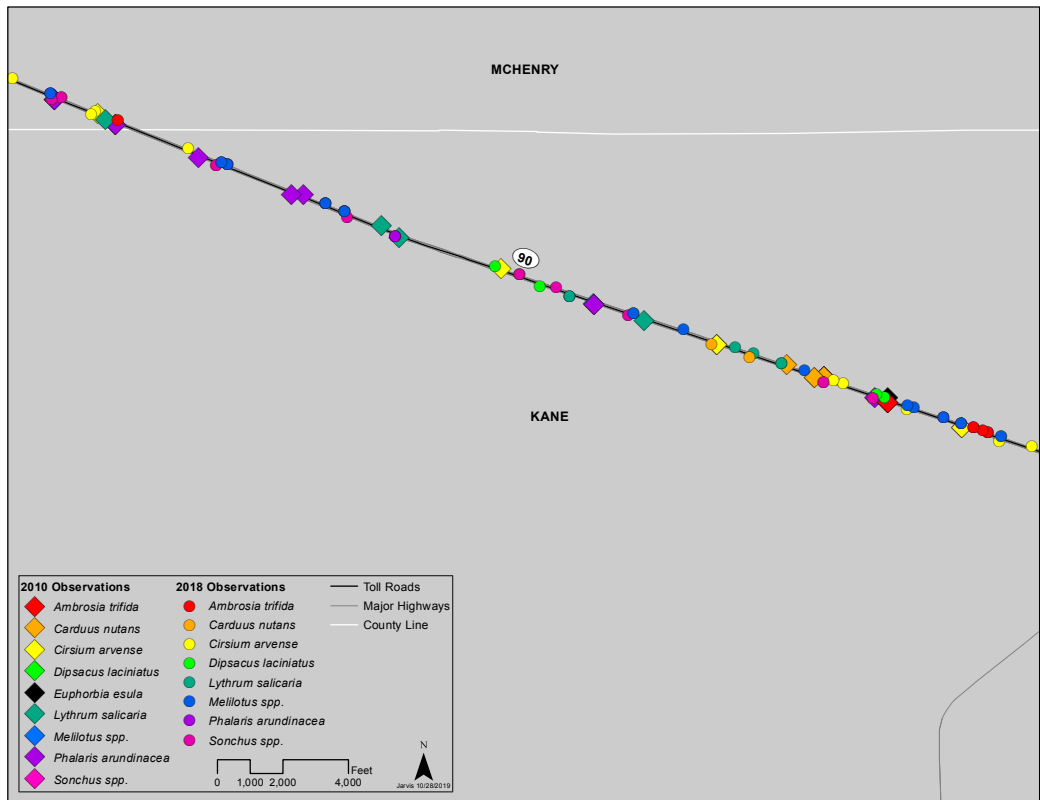
Map 2.4 Enlargement of section 4 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



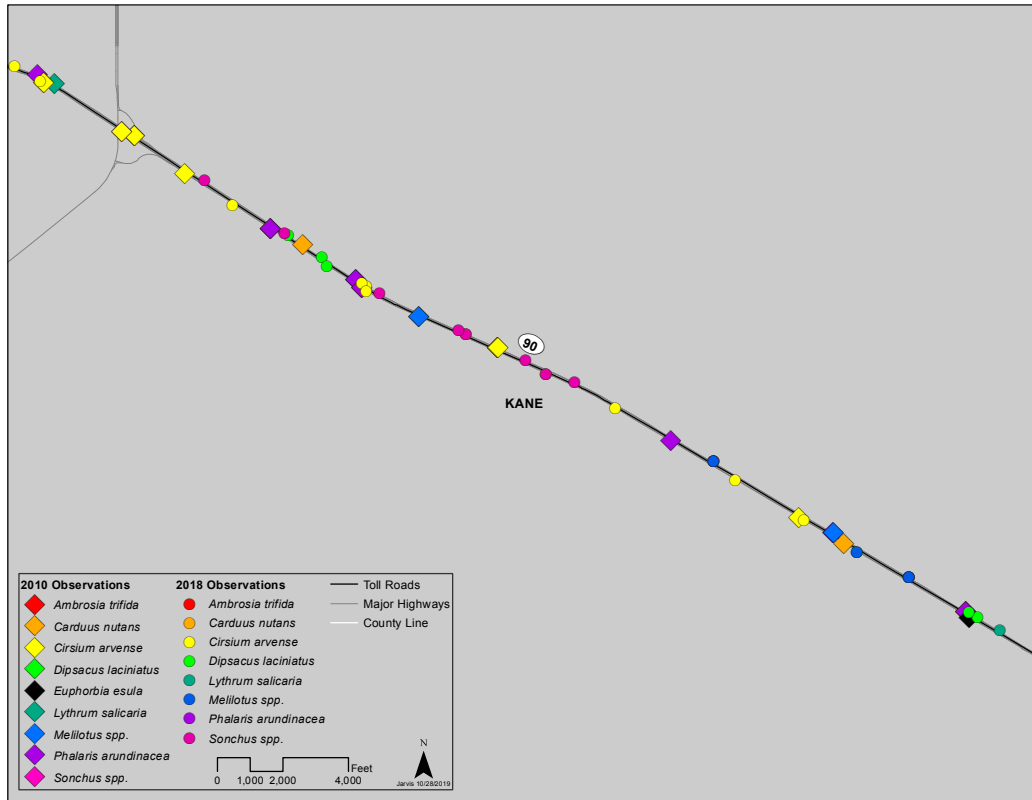
Map 2.5 Enlargement of section 5 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



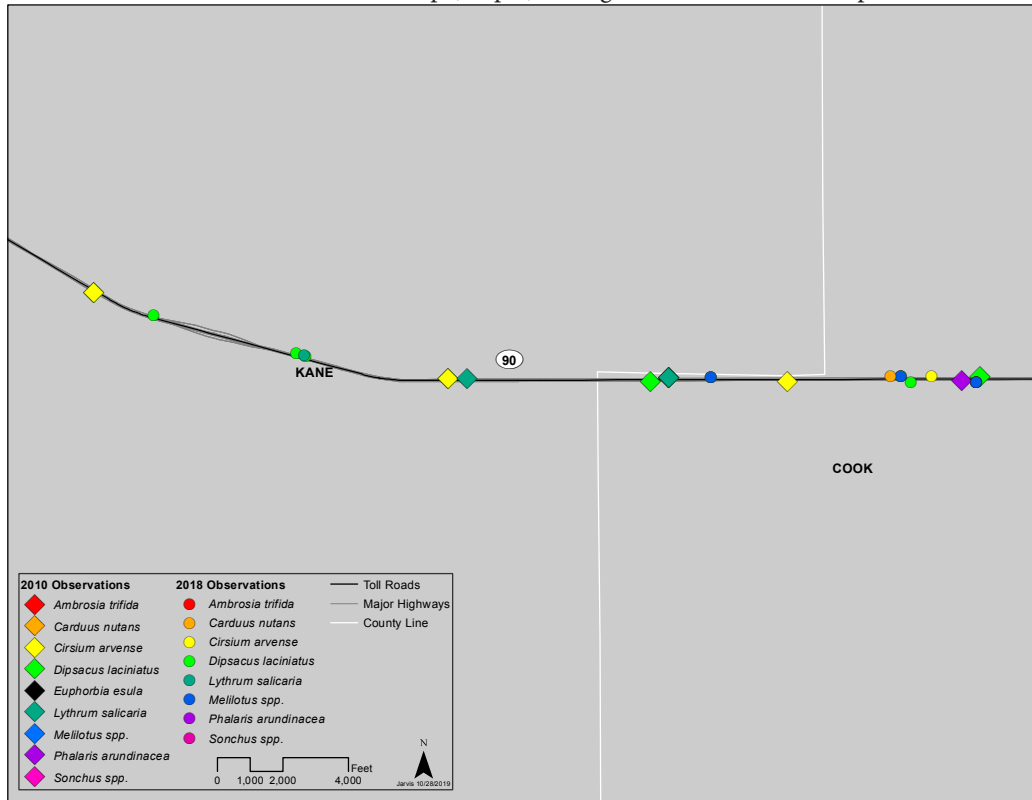
Map 2.6 Enlargement of section 6 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



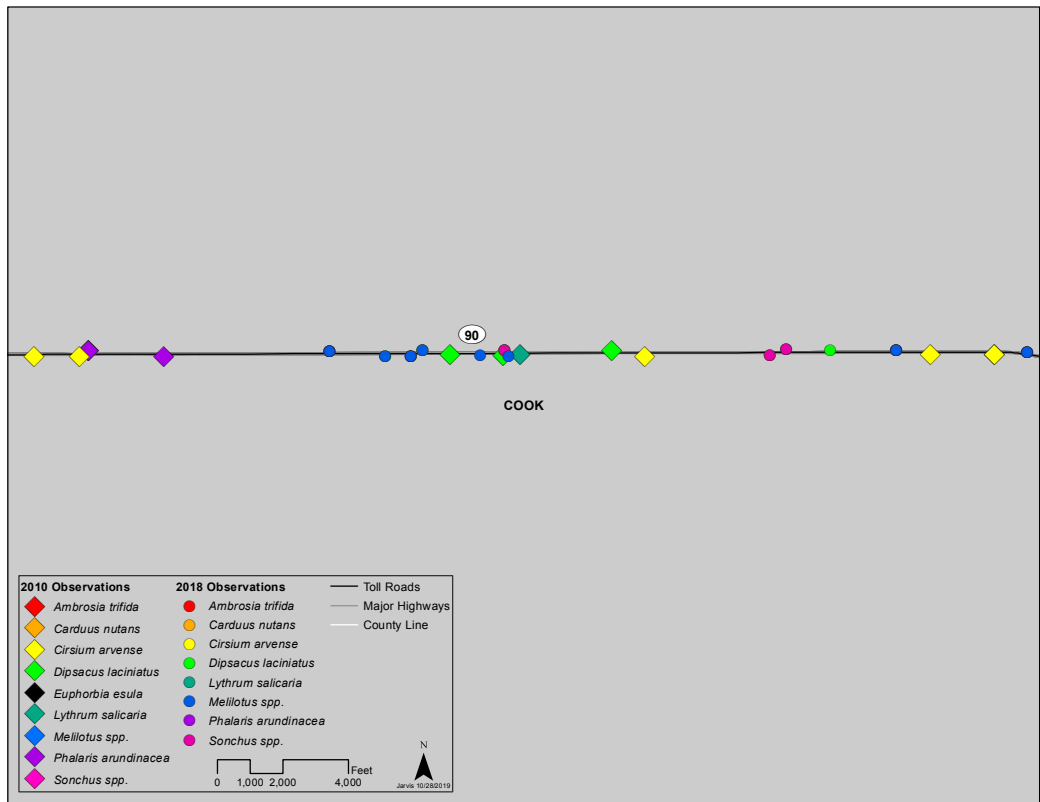
Map 2.7 Enlargement of section 7 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



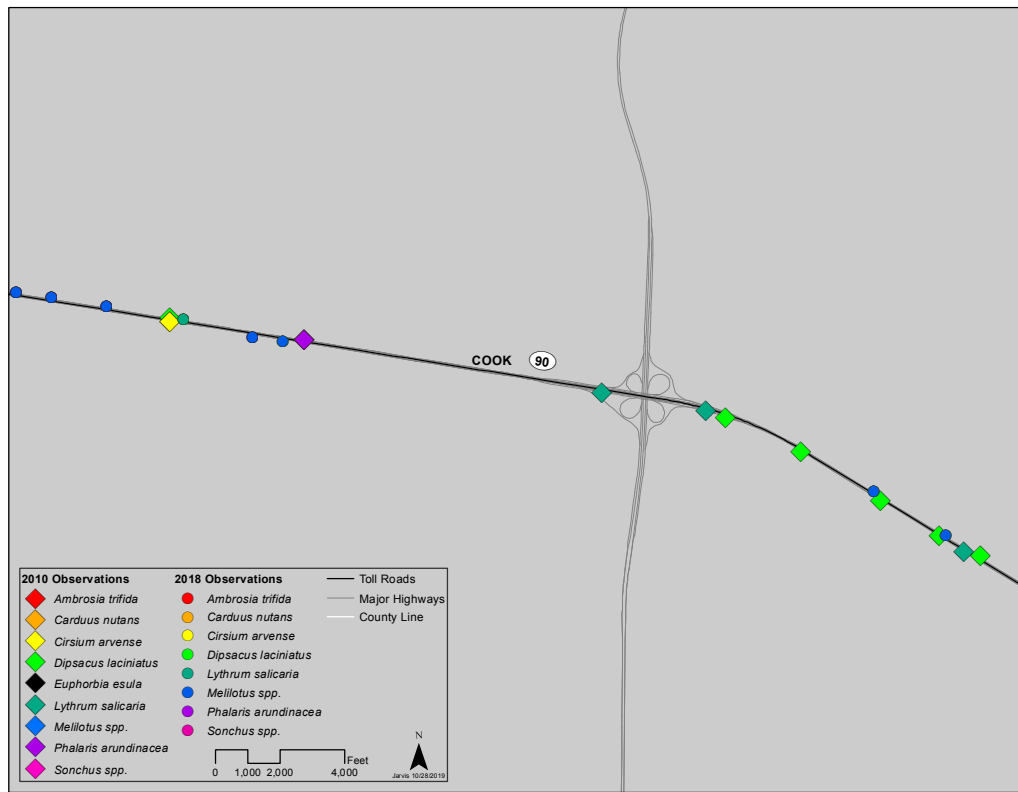
Map 2.8 Enlargement of section 8 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



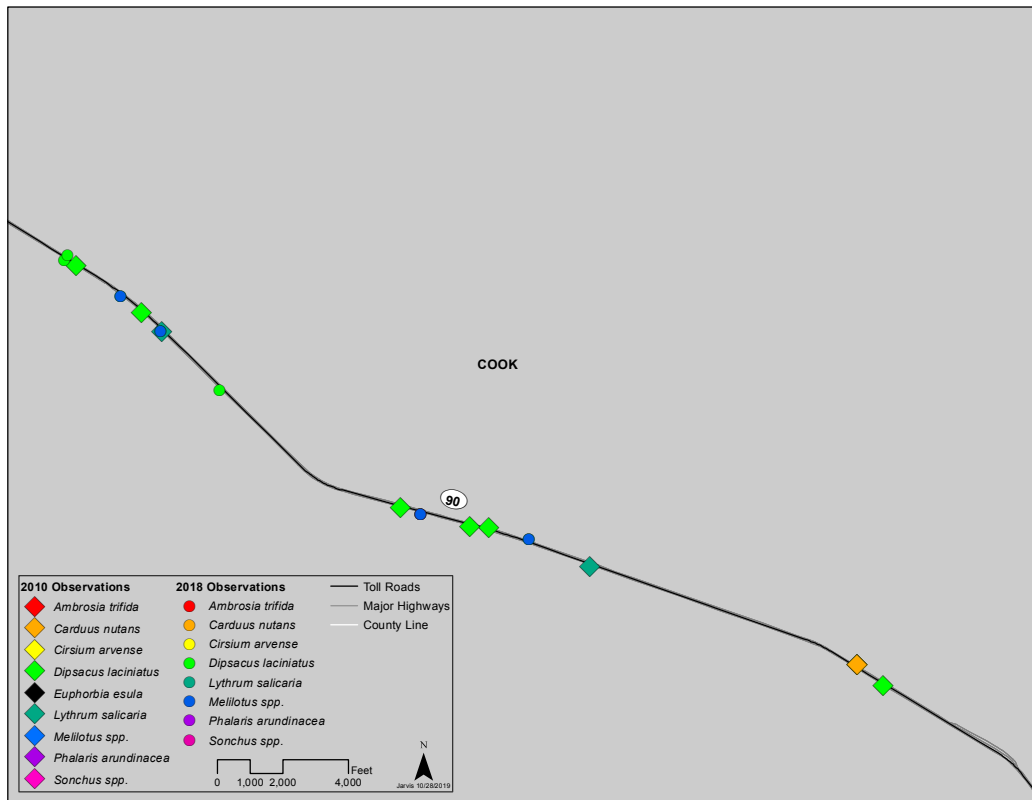
Map 2.9 Enlargement of section 9 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



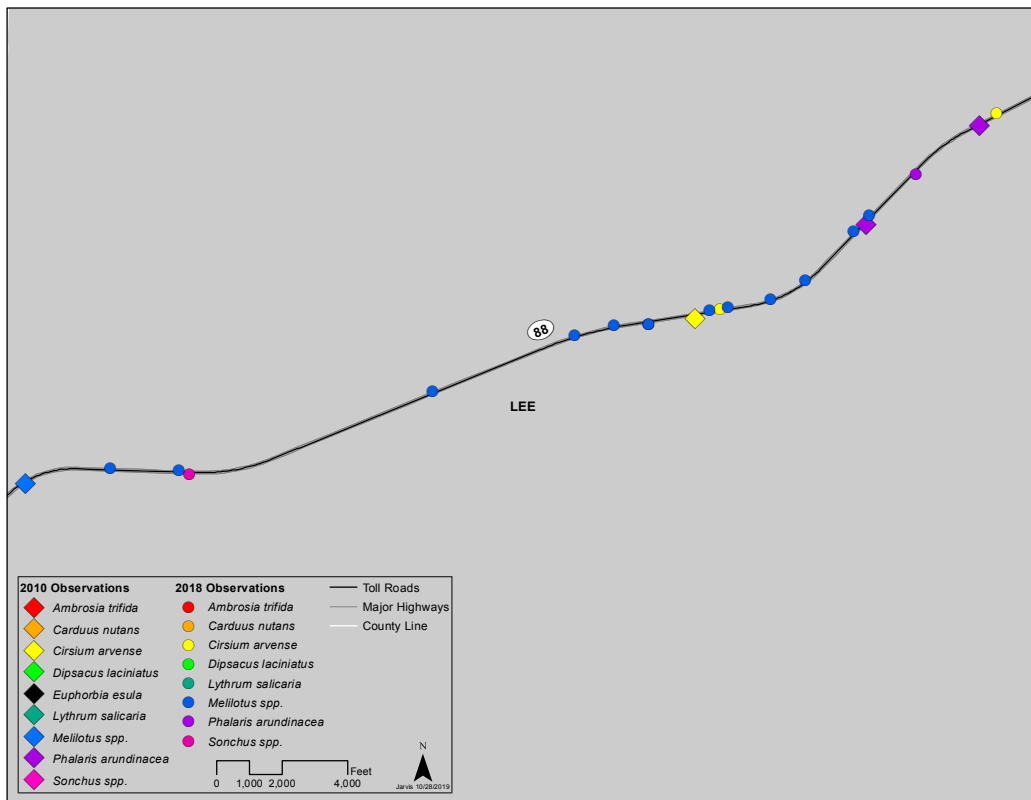
Map 2.10 Enlargement of section 10 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



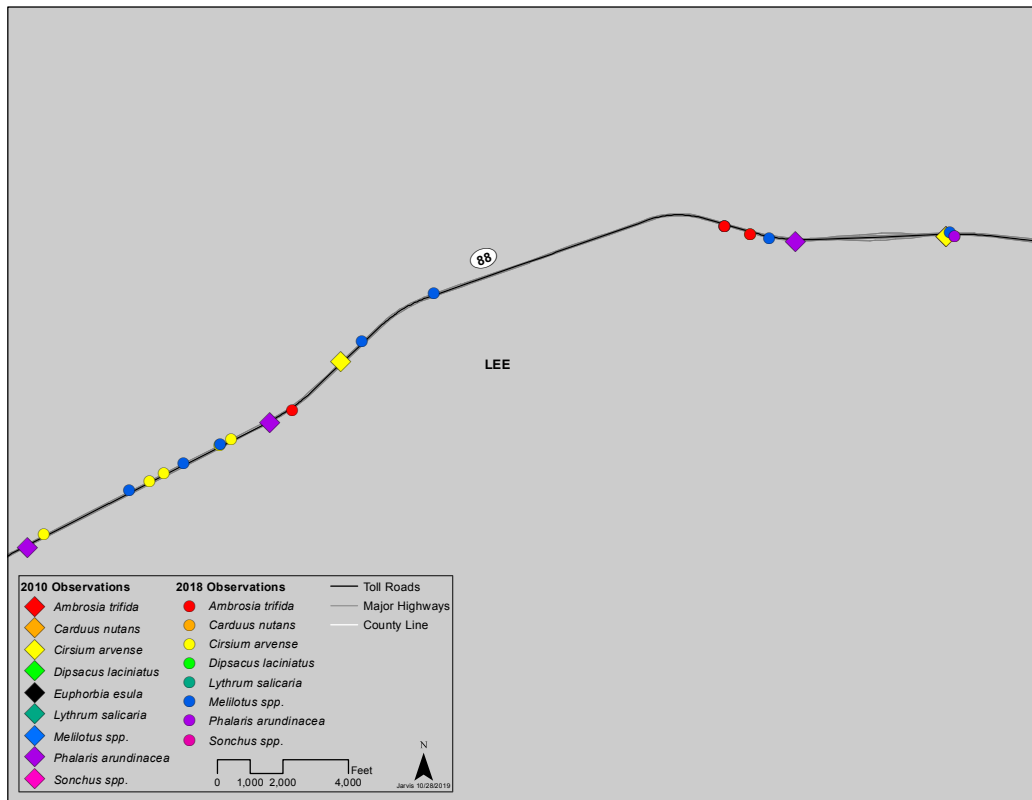
Map 2.11 Enlargement of section 11 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



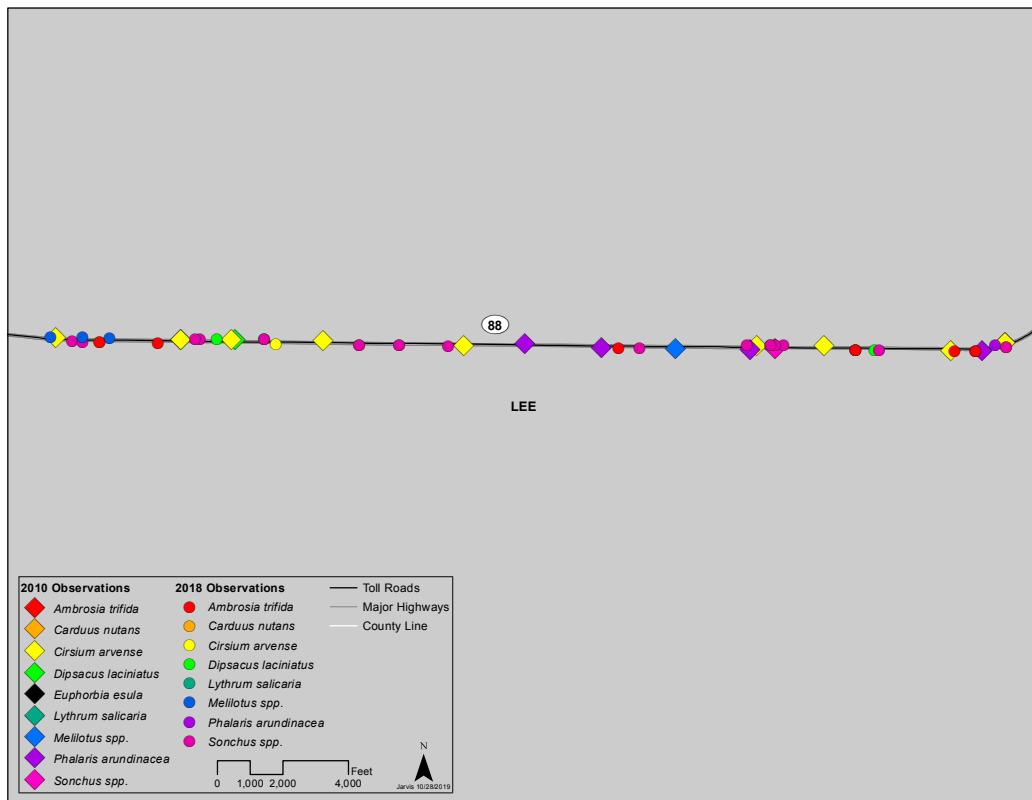
Map 2.12 Enlargement of section 12 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



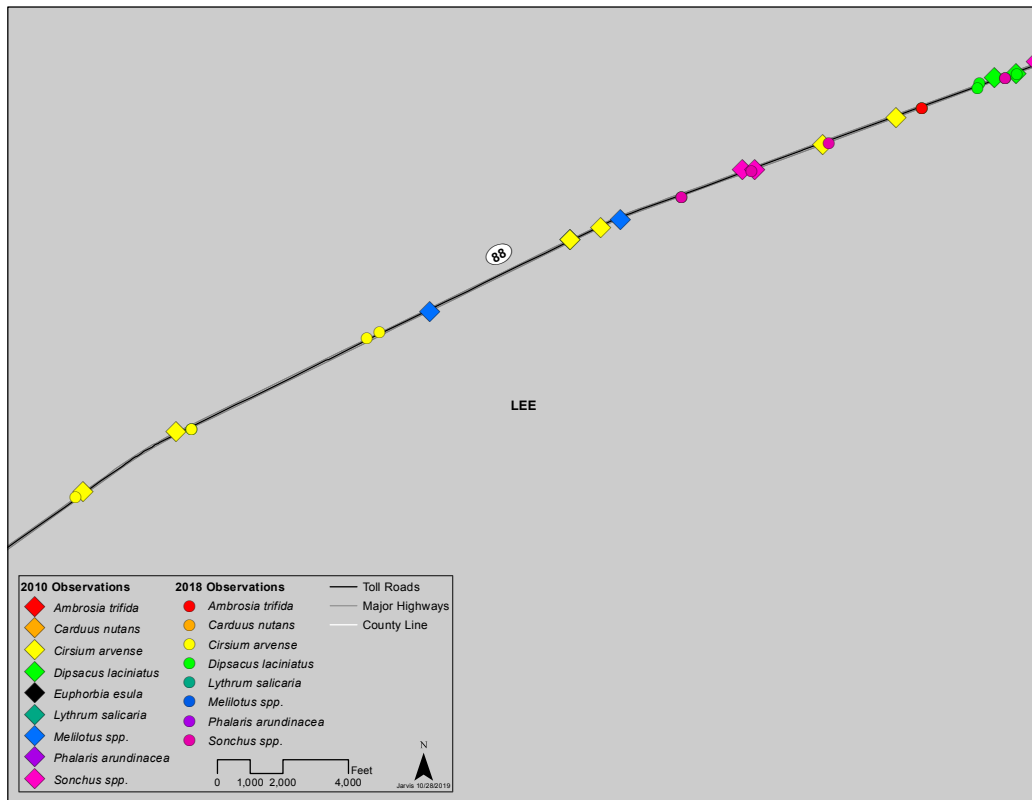
Map 2.13 Enlargement of section 13 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



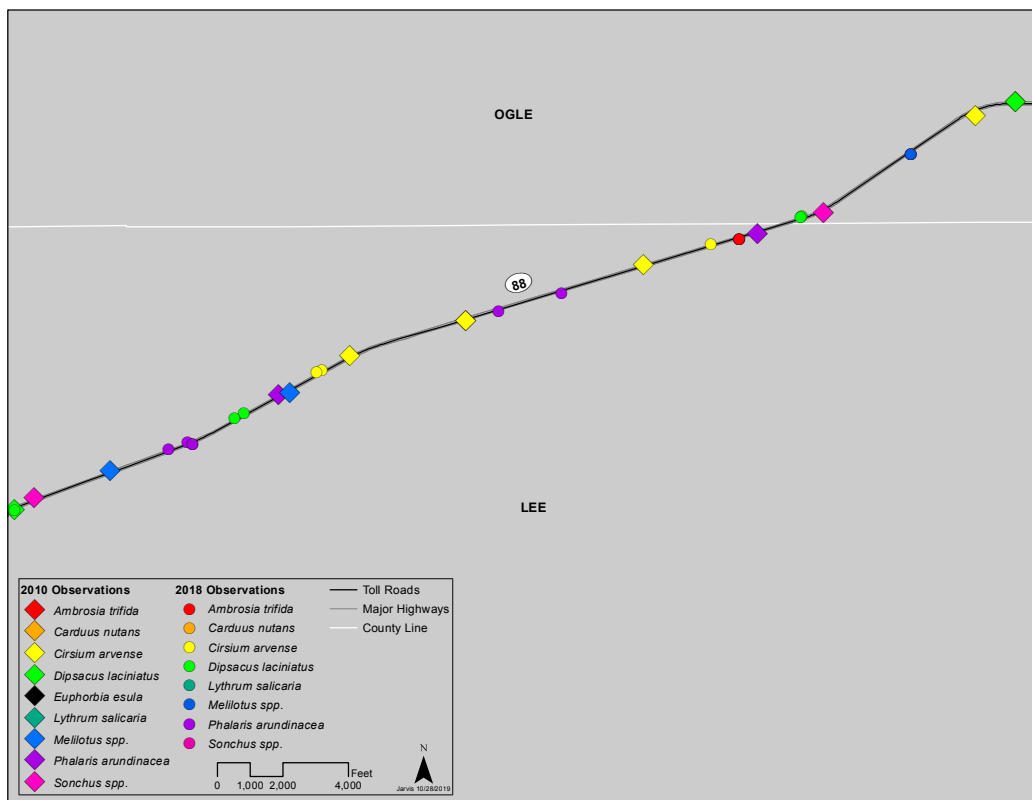
Map 2.14 Enlargement of section 14 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



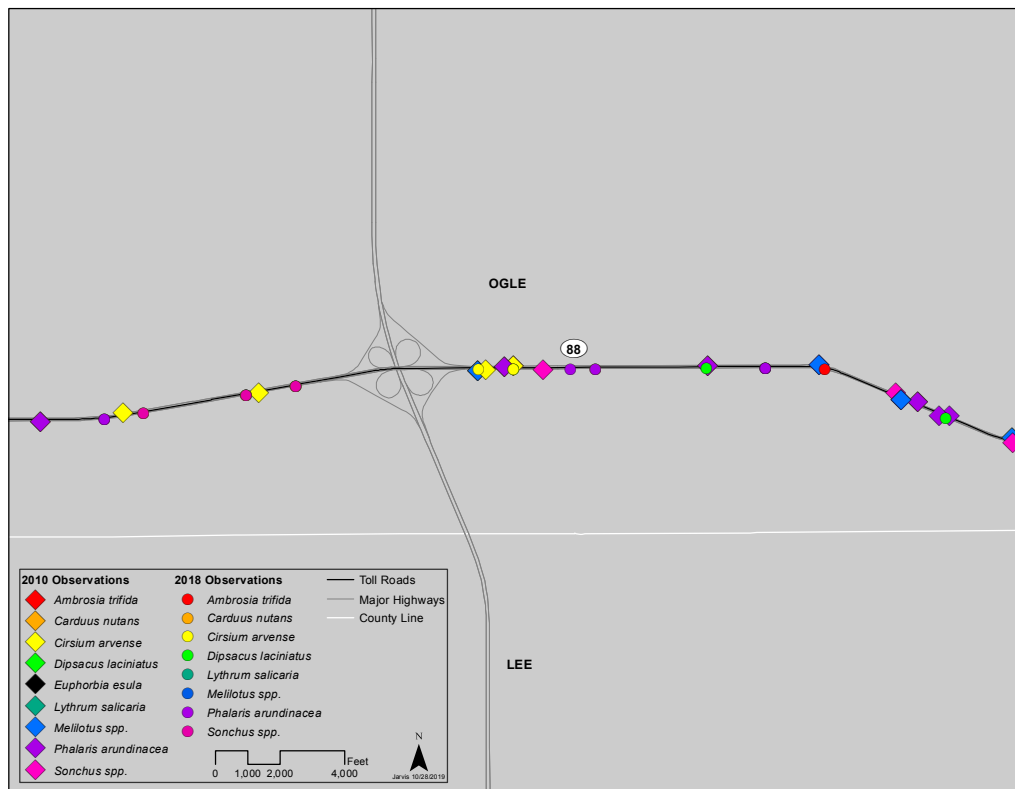
Map 2.15 Enlargement of section 15 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



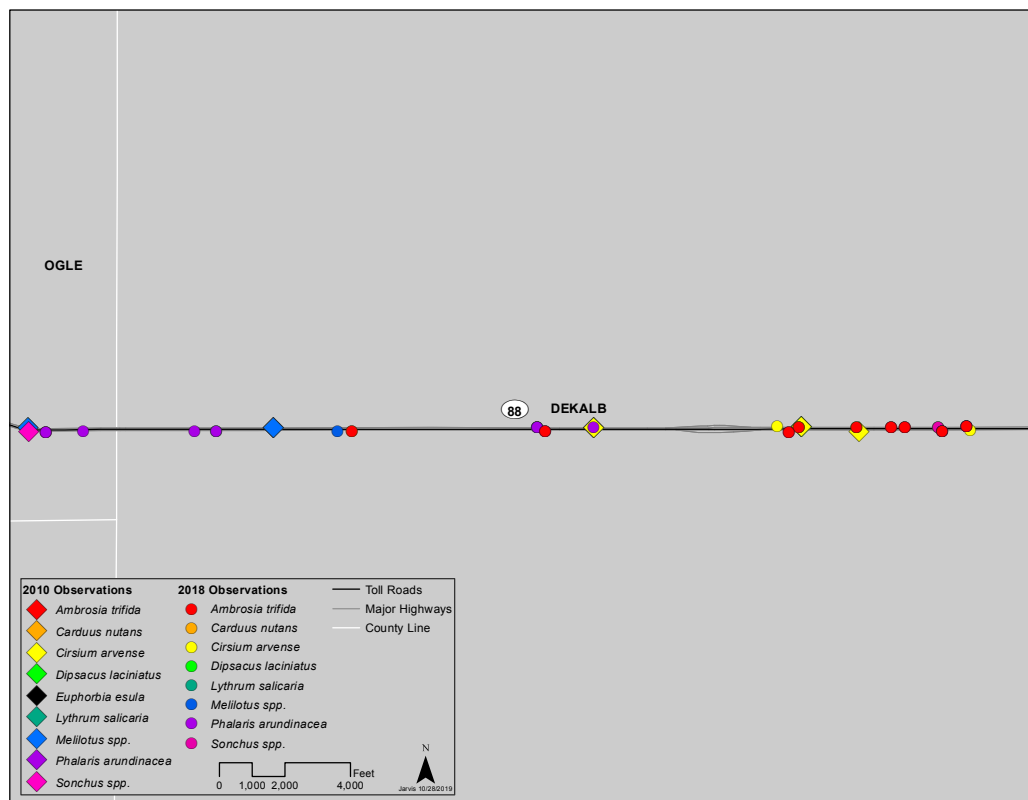
Map 2.16 Enlargement of section 16 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



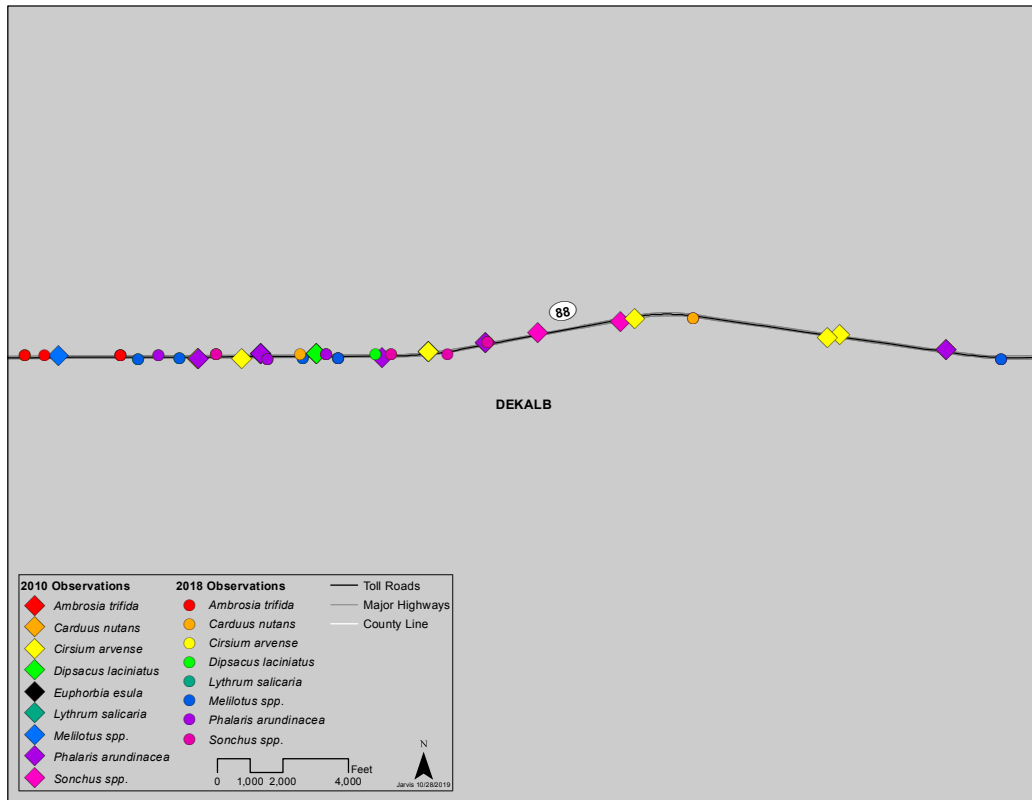
Map 2.17 Enlargement of section 17 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



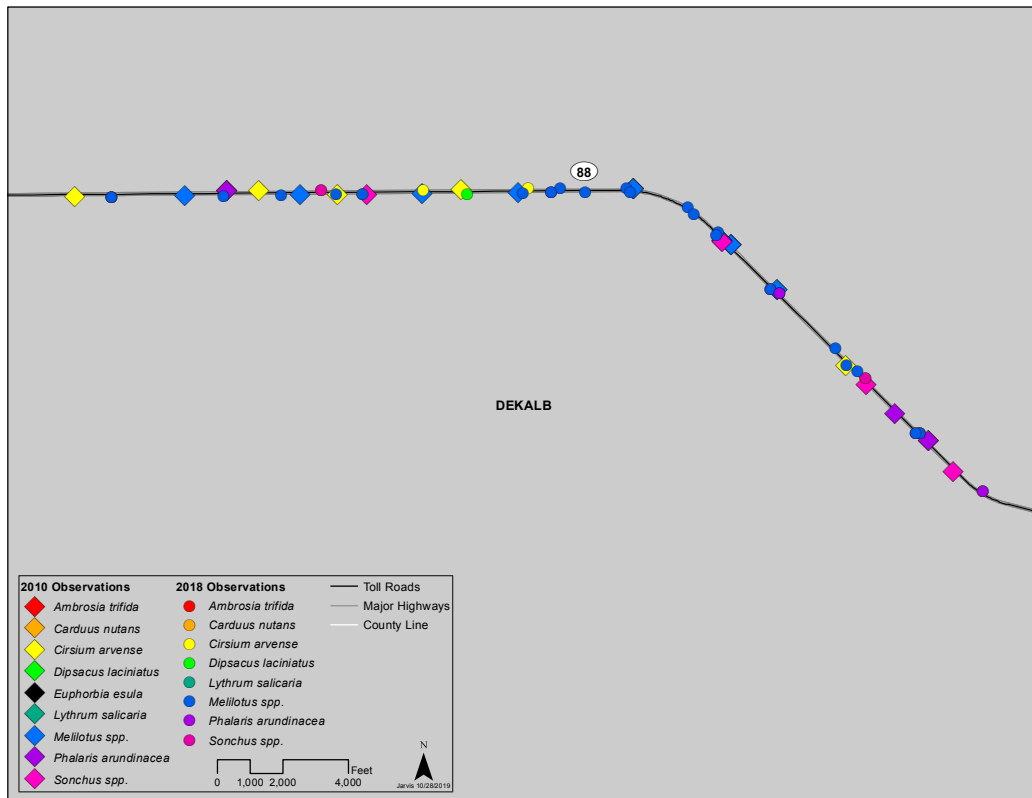
Map 2.18 Enlargement of section 18 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



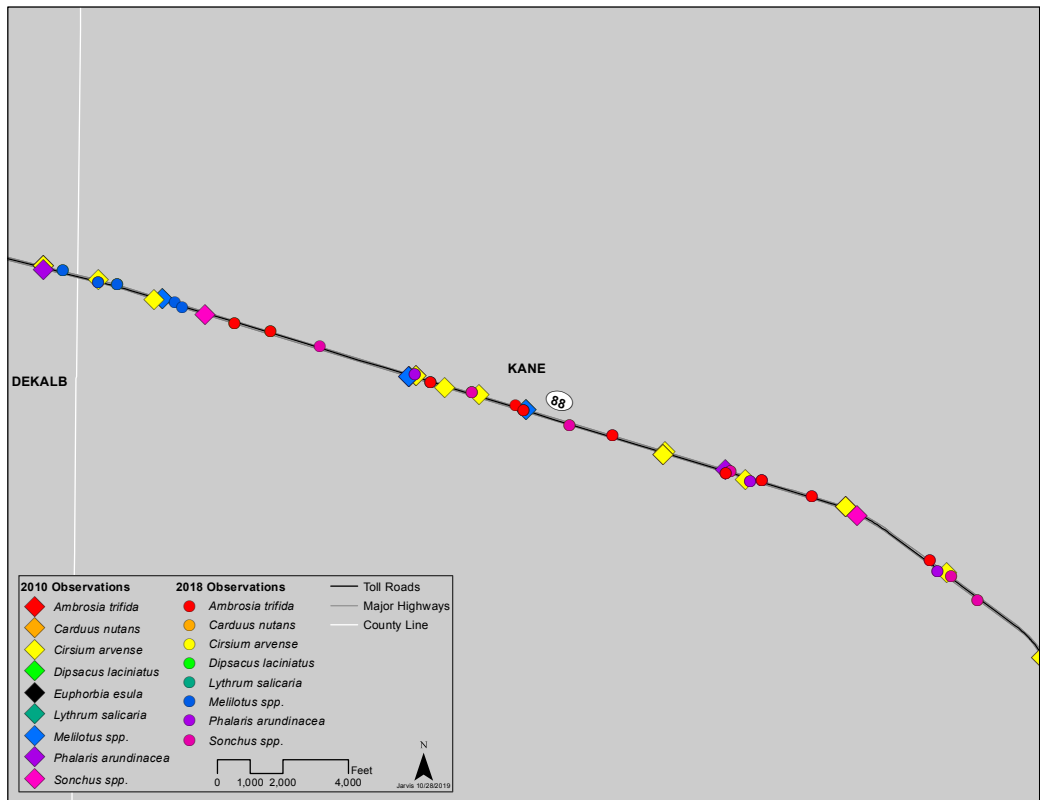
Map 2.19 Enlargement of section 19 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



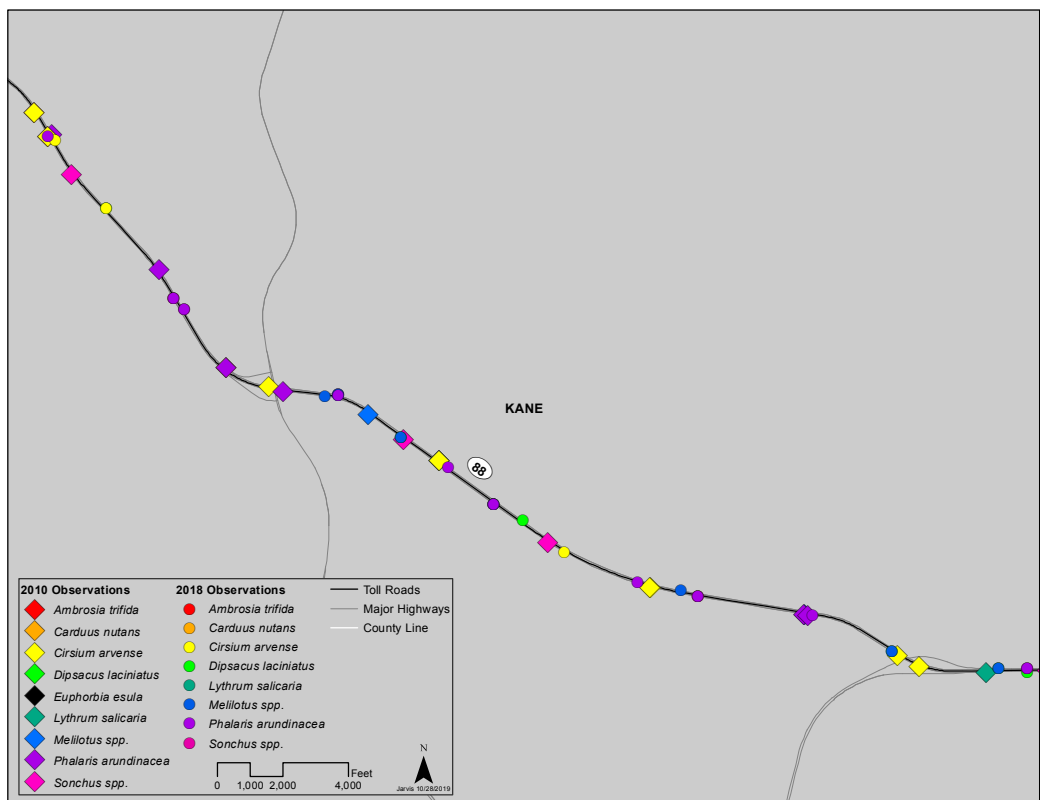
Map 2.20 Enlargement of section 20 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



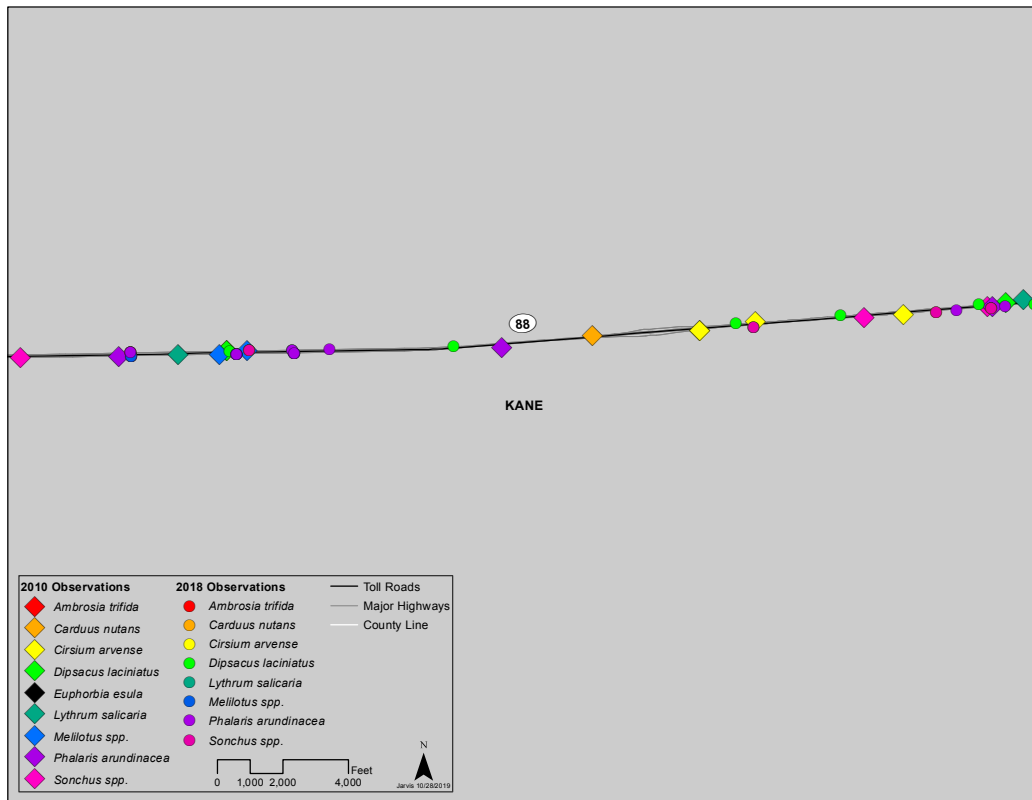
Map 2.21 Enlargement of section 21 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



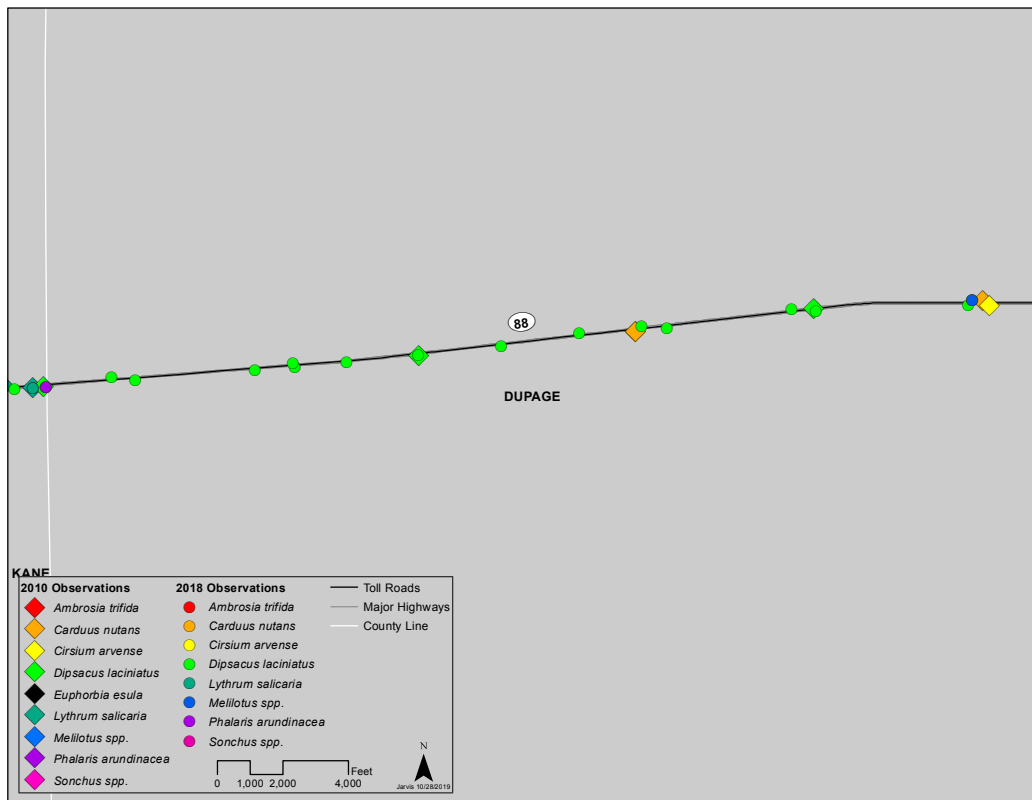
Map 2.22 Enlargement of section 22 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



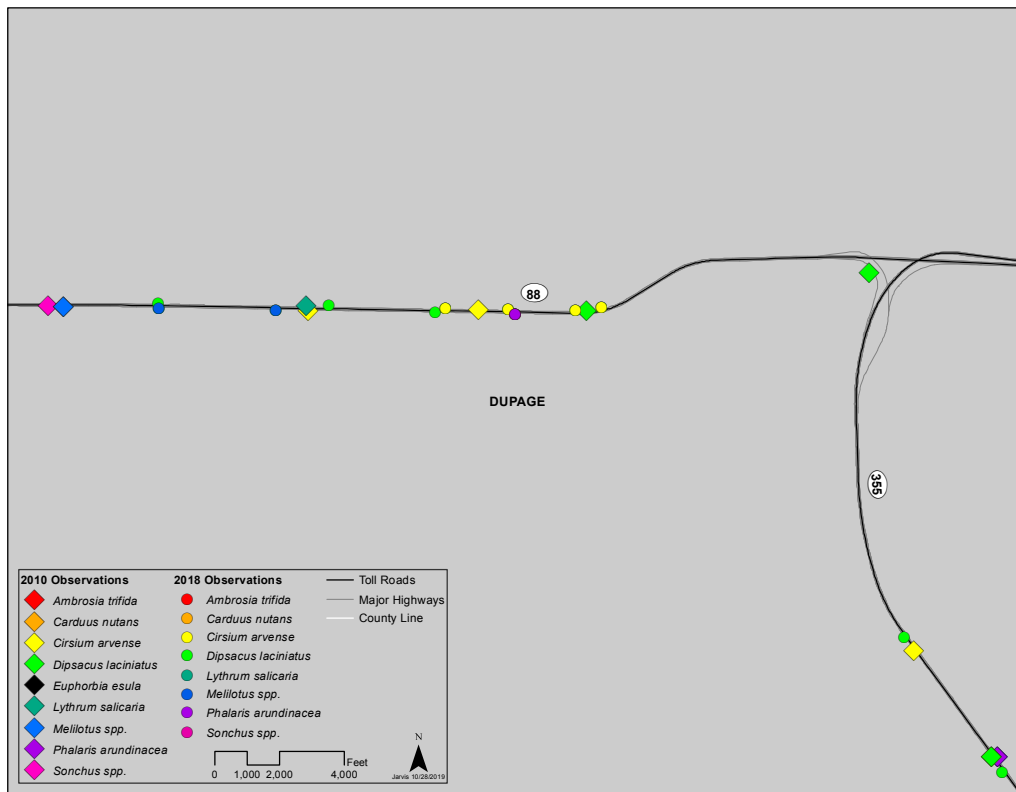
Map 2.23 Enlargement of section 23 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



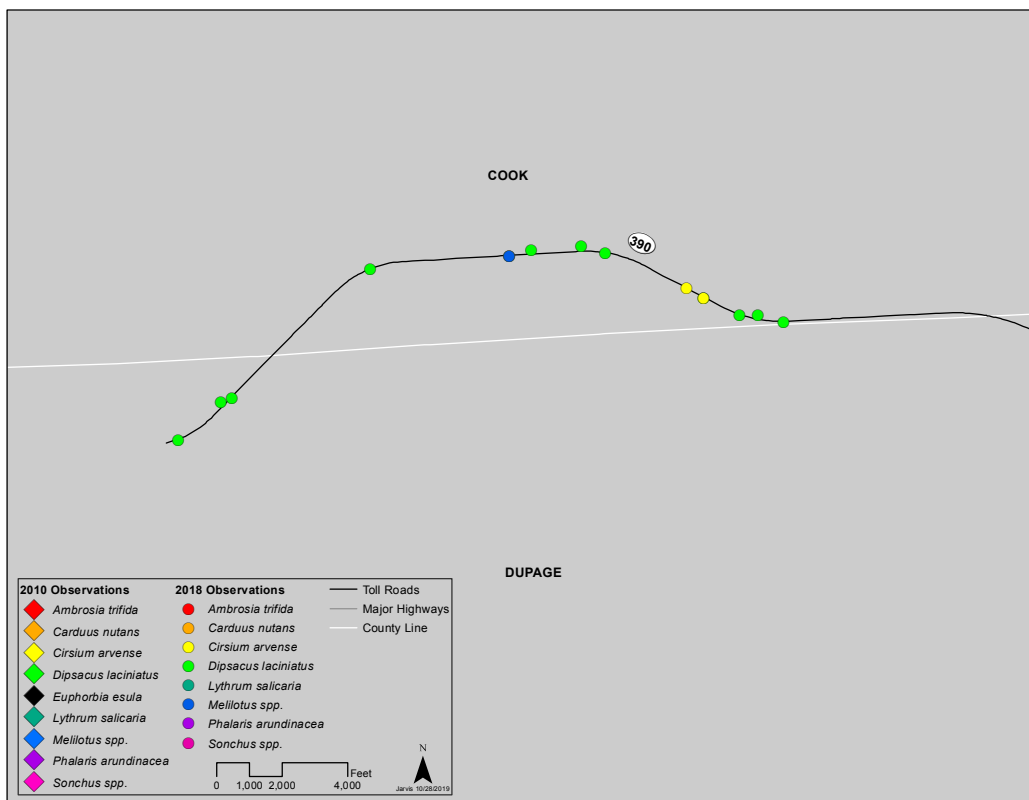
Map 2.24 Enlargement of section 24 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



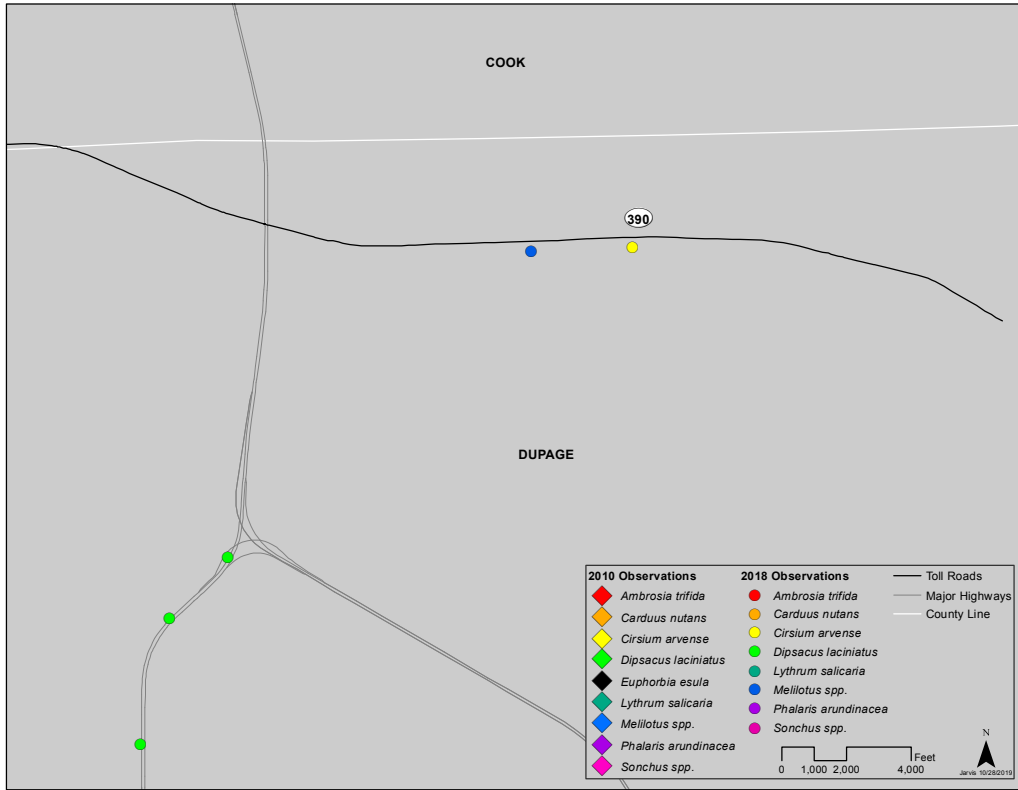
Map 2.25 Enlargement of section 25 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



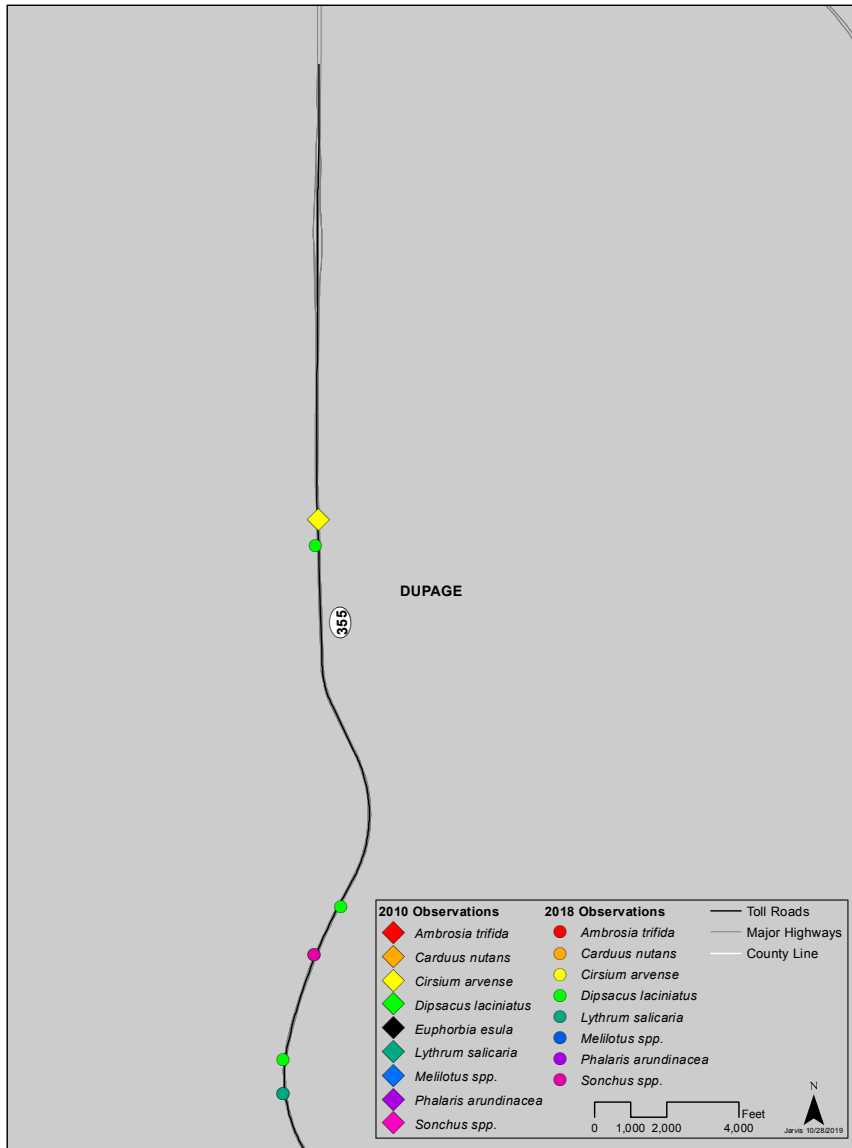
Map 2.26 Enlargement of section 26 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



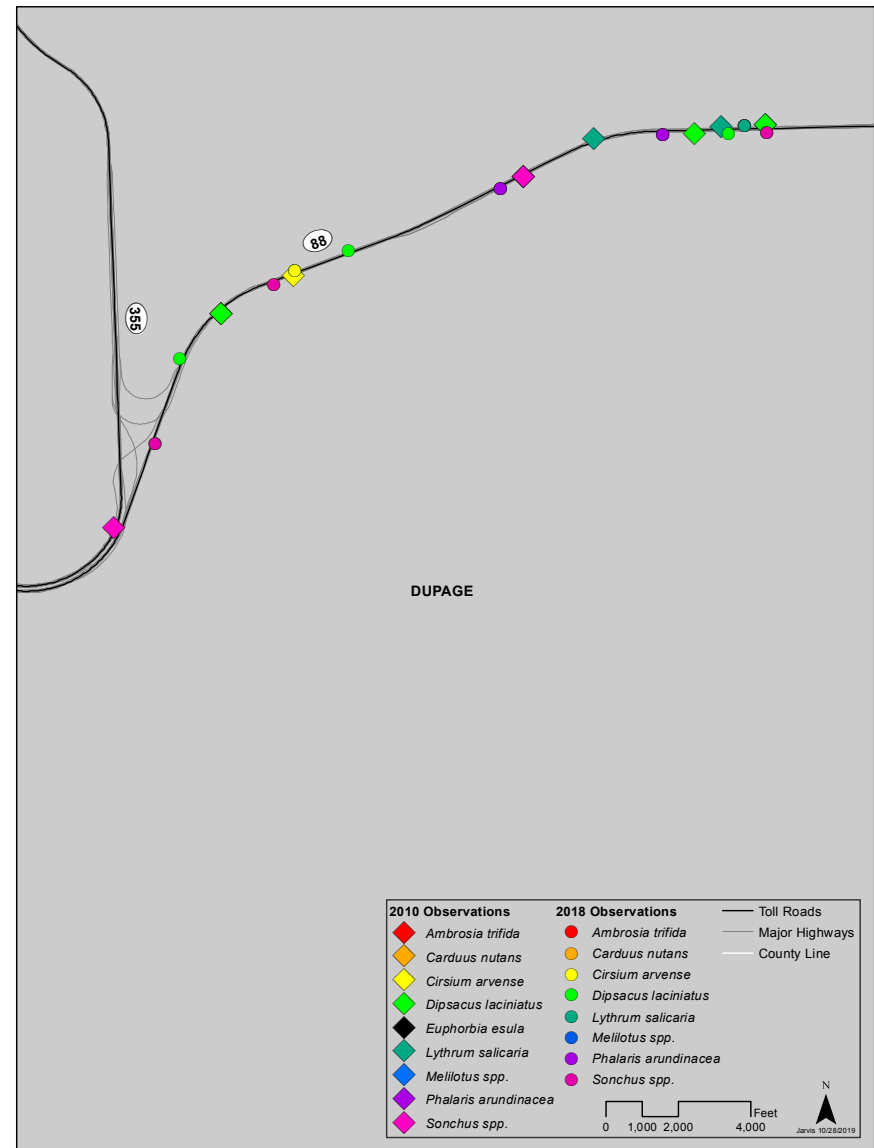
Map 2.27 Enlargement of section 27 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



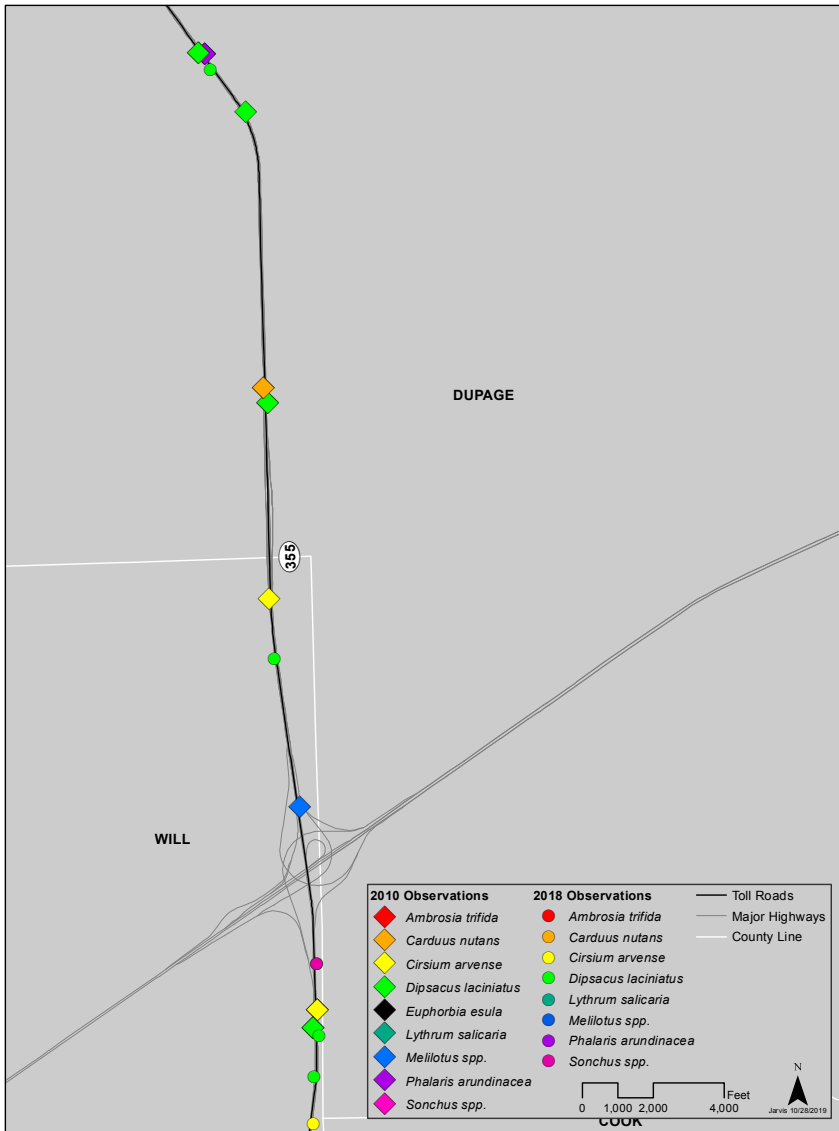
Map 2.28 Enlargement of section 28 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



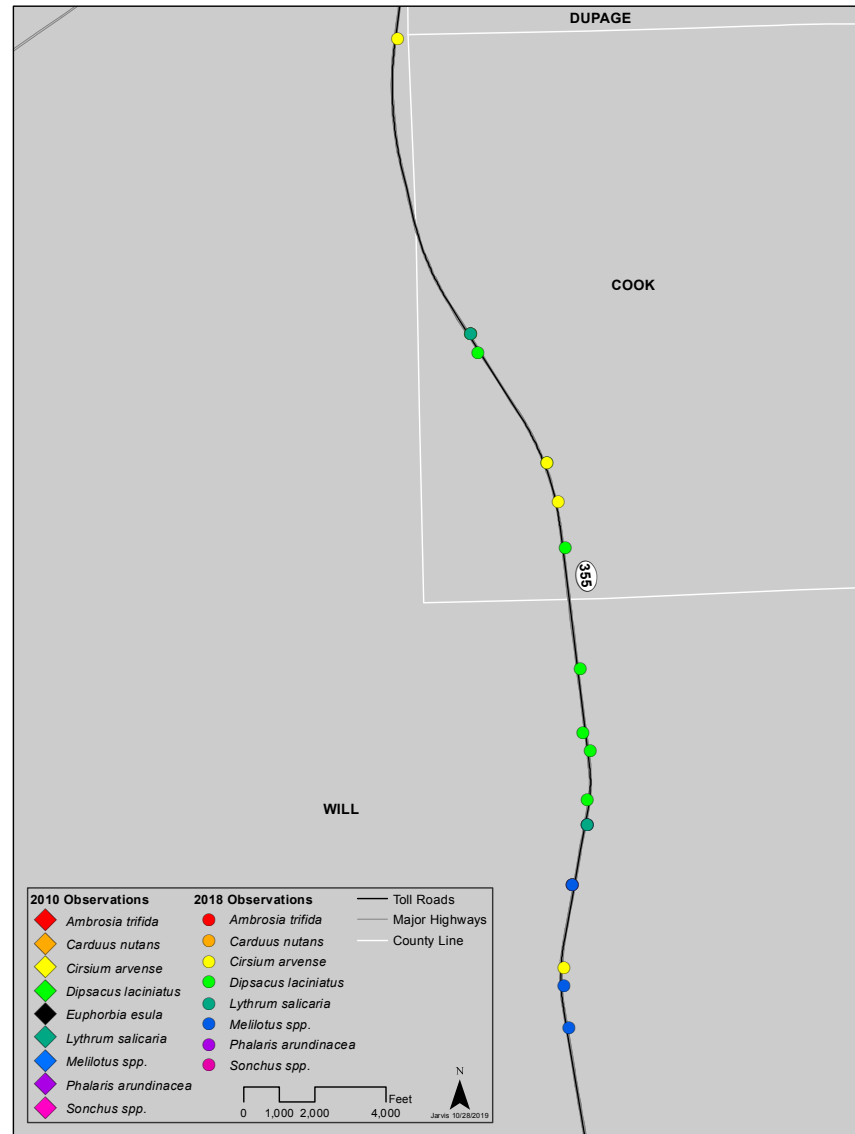
Map 2.29 Enlargement of section 29 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



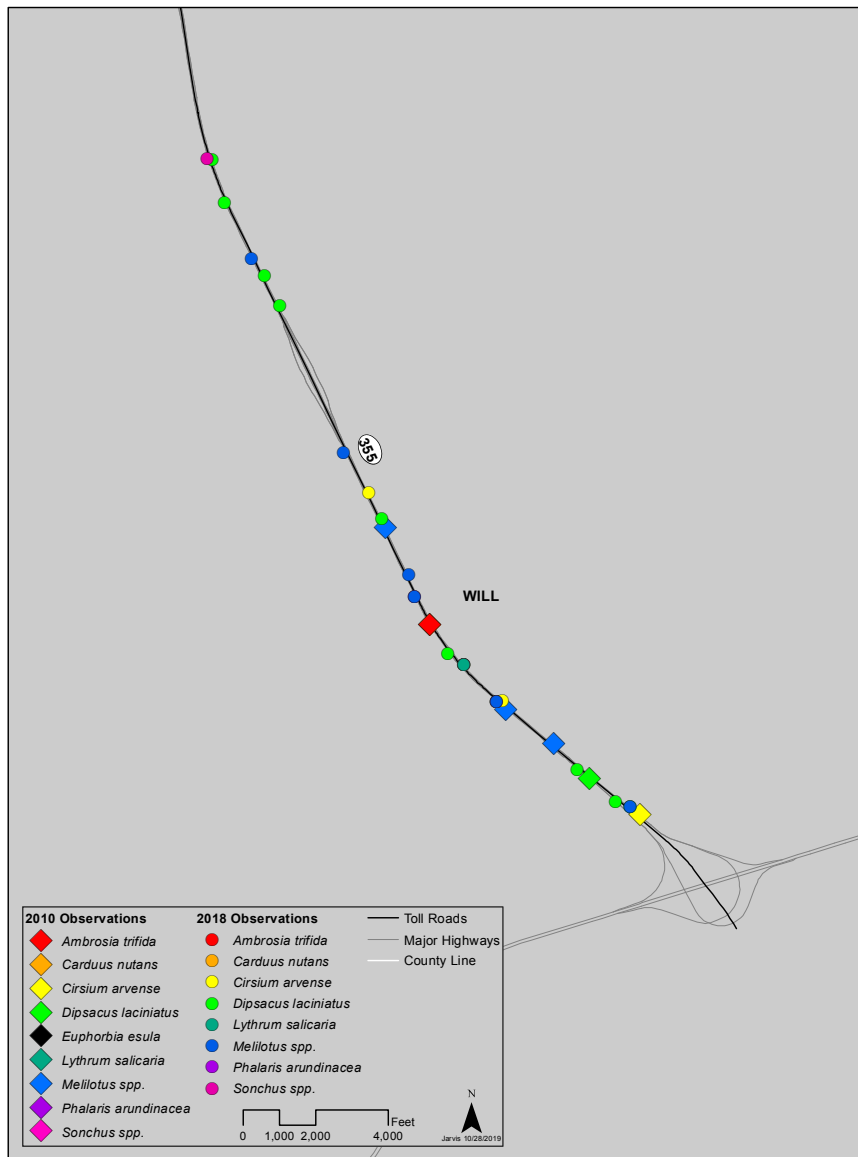
Map 2.30 Enlargement of section 30 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



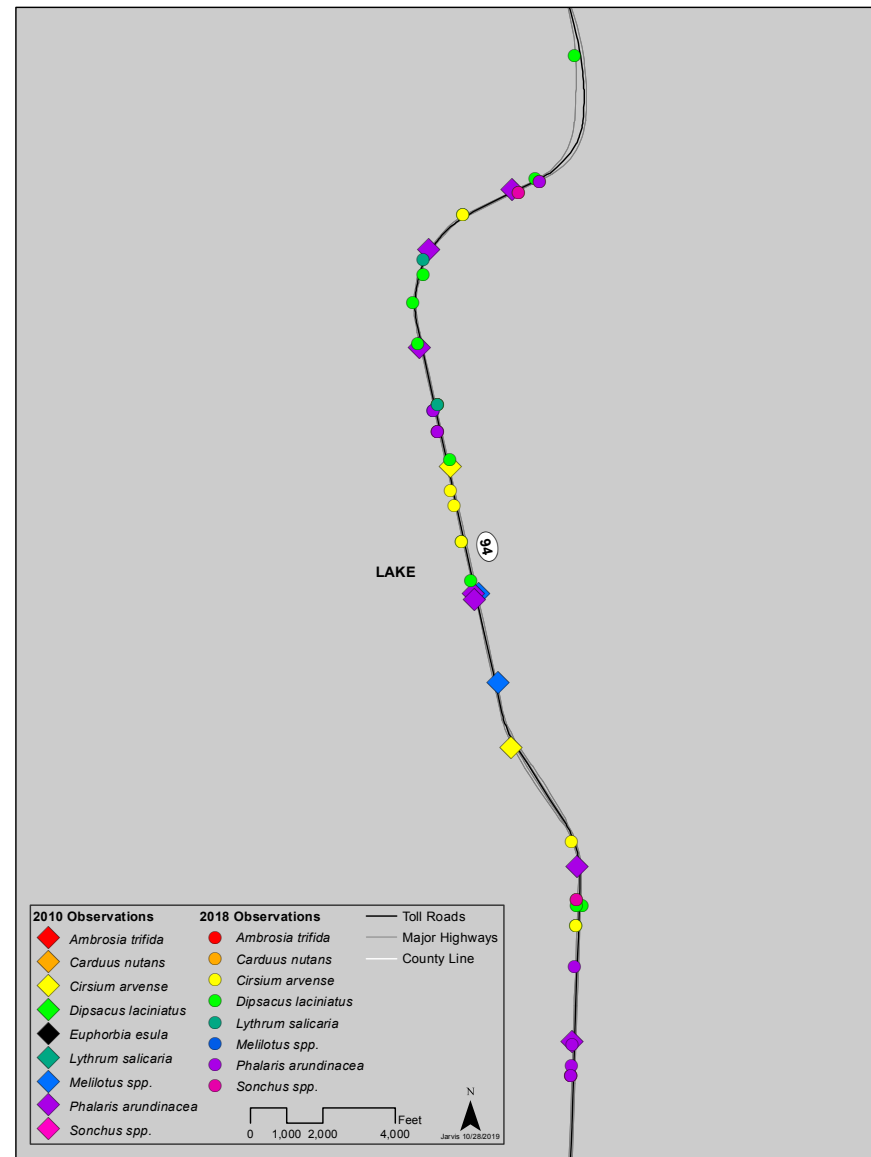
Map 2.31 Enlargement of section 31 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



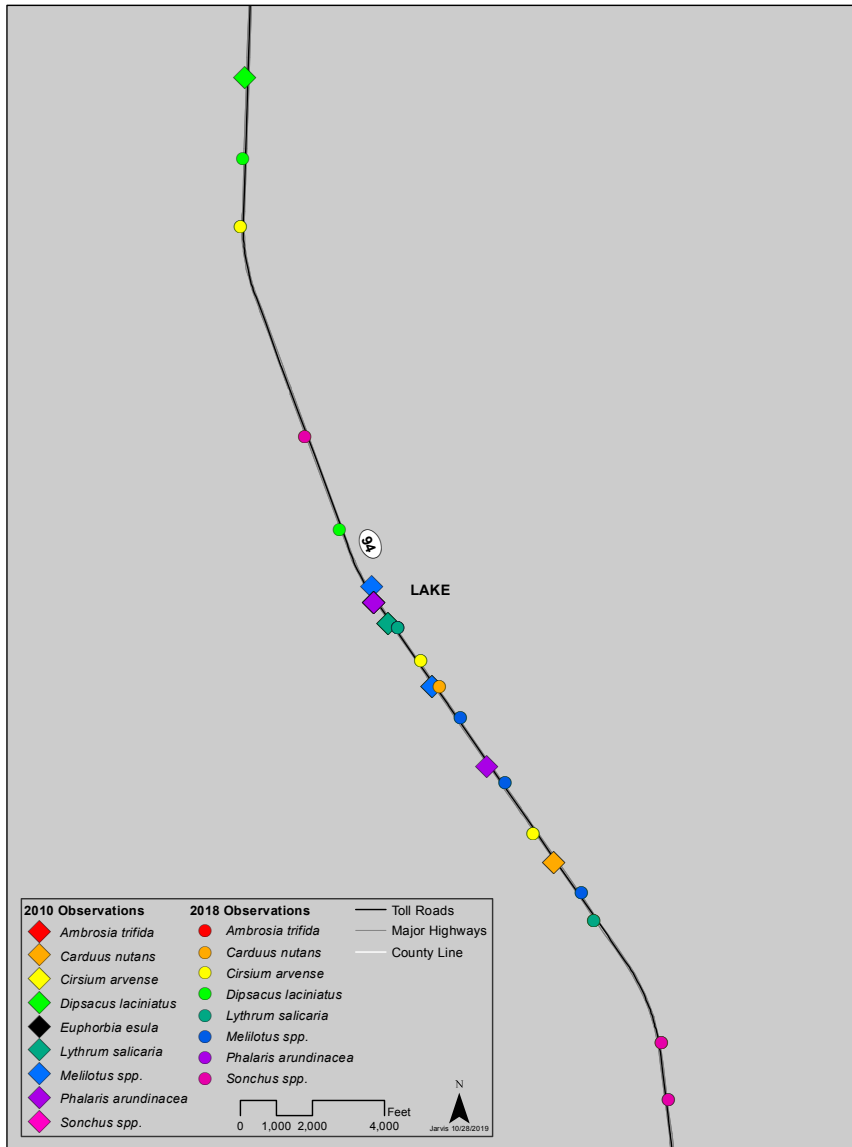
Map 2.32 Enlargement of section 32 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



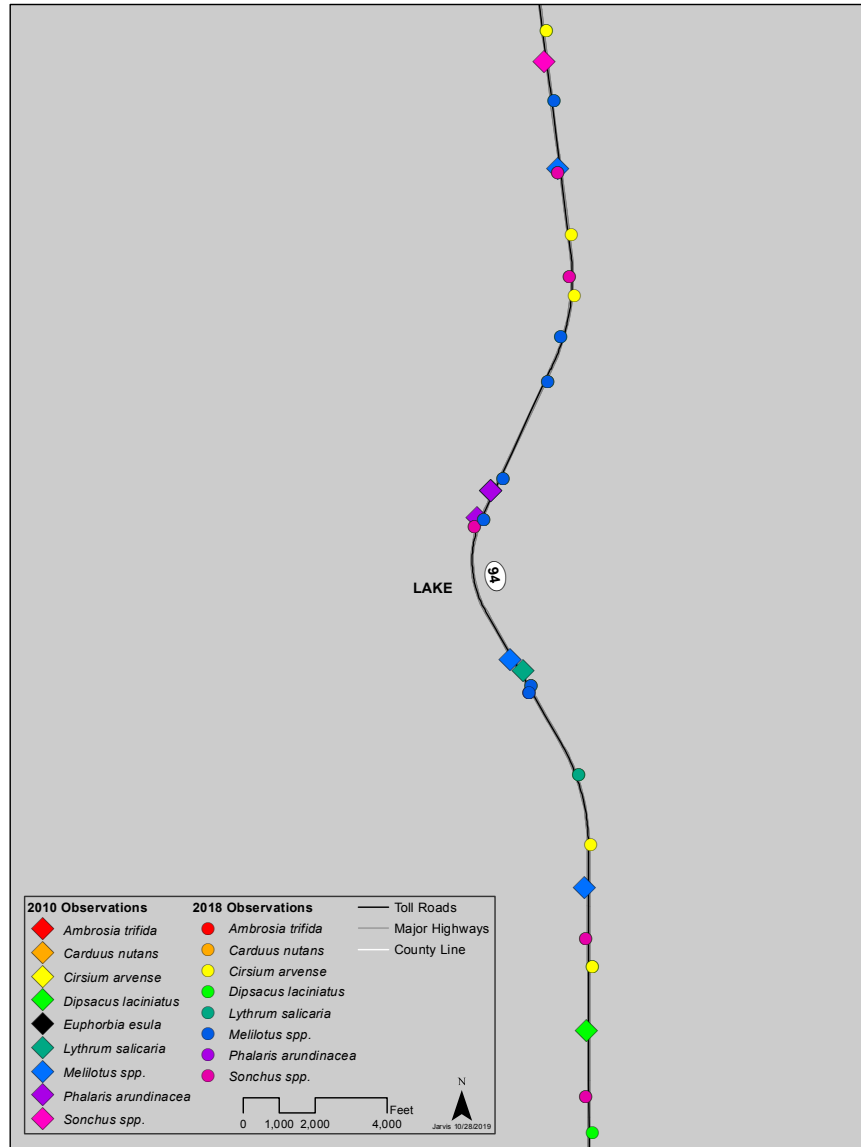
Map 2.33 Enlargement of section 33 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



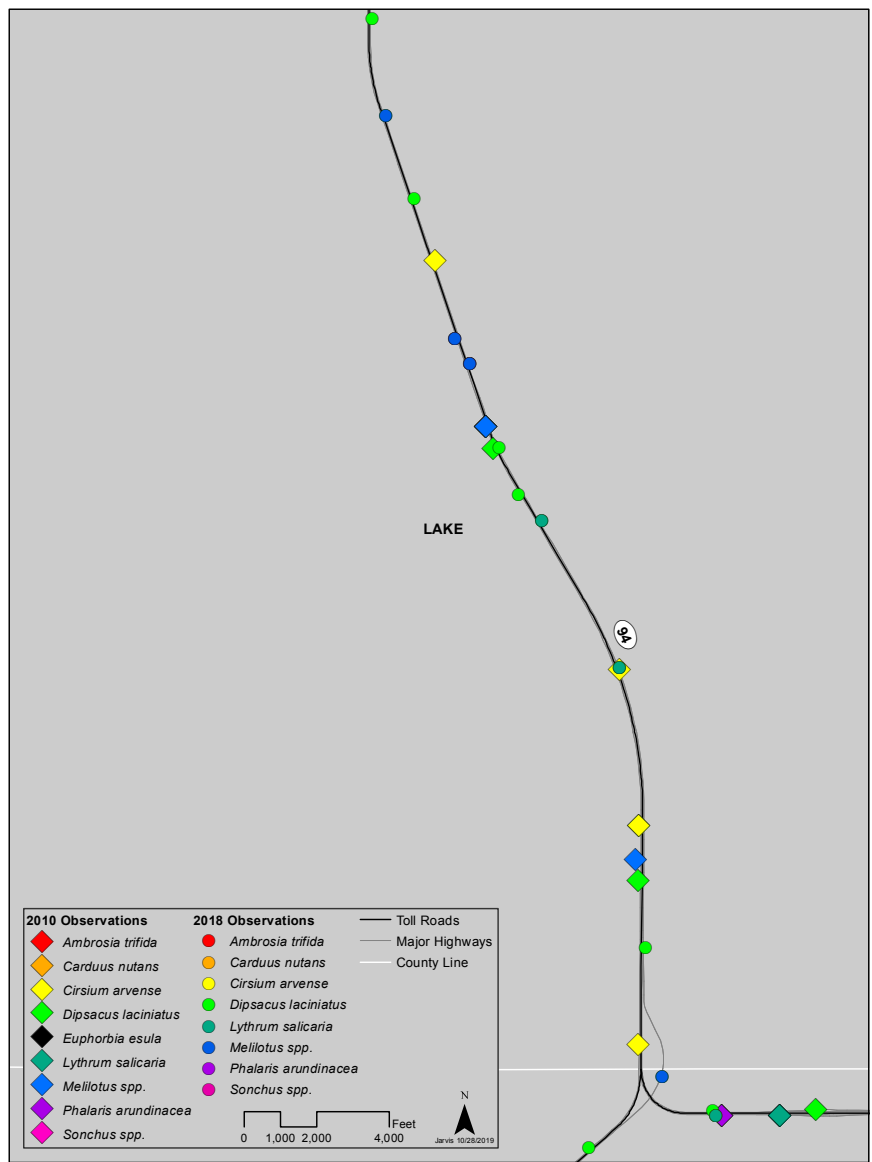
Map 2.34 Enlargement of section 34 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



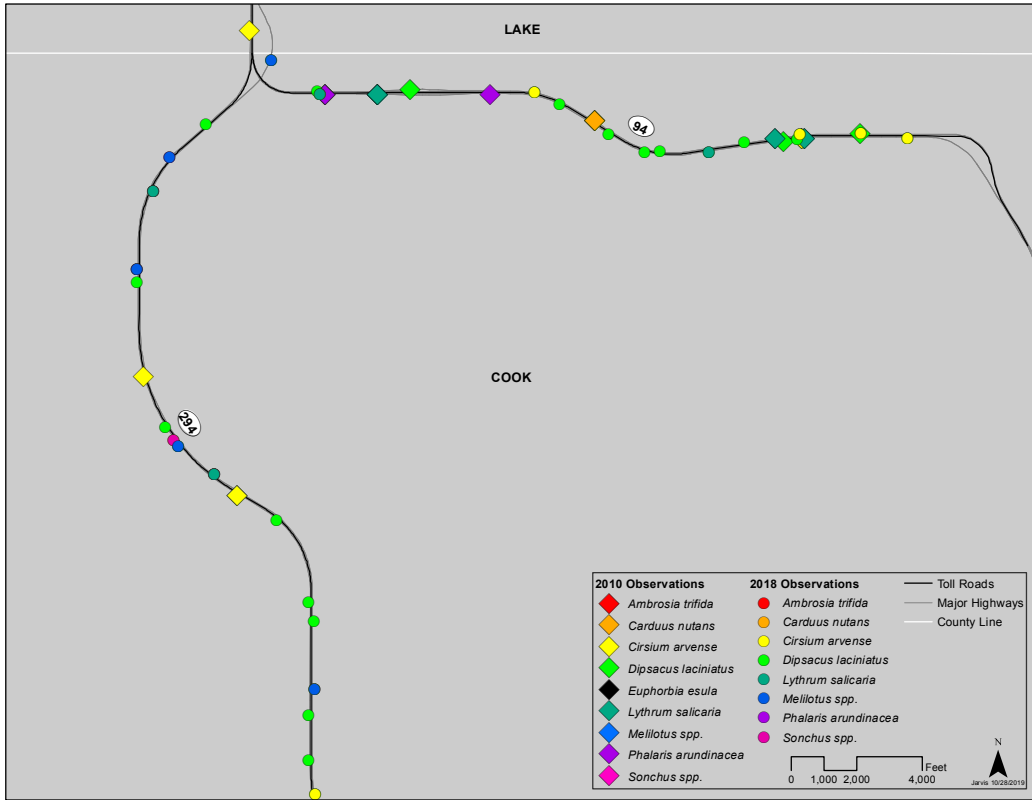
Map 2.35 Enlargement of section 35 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



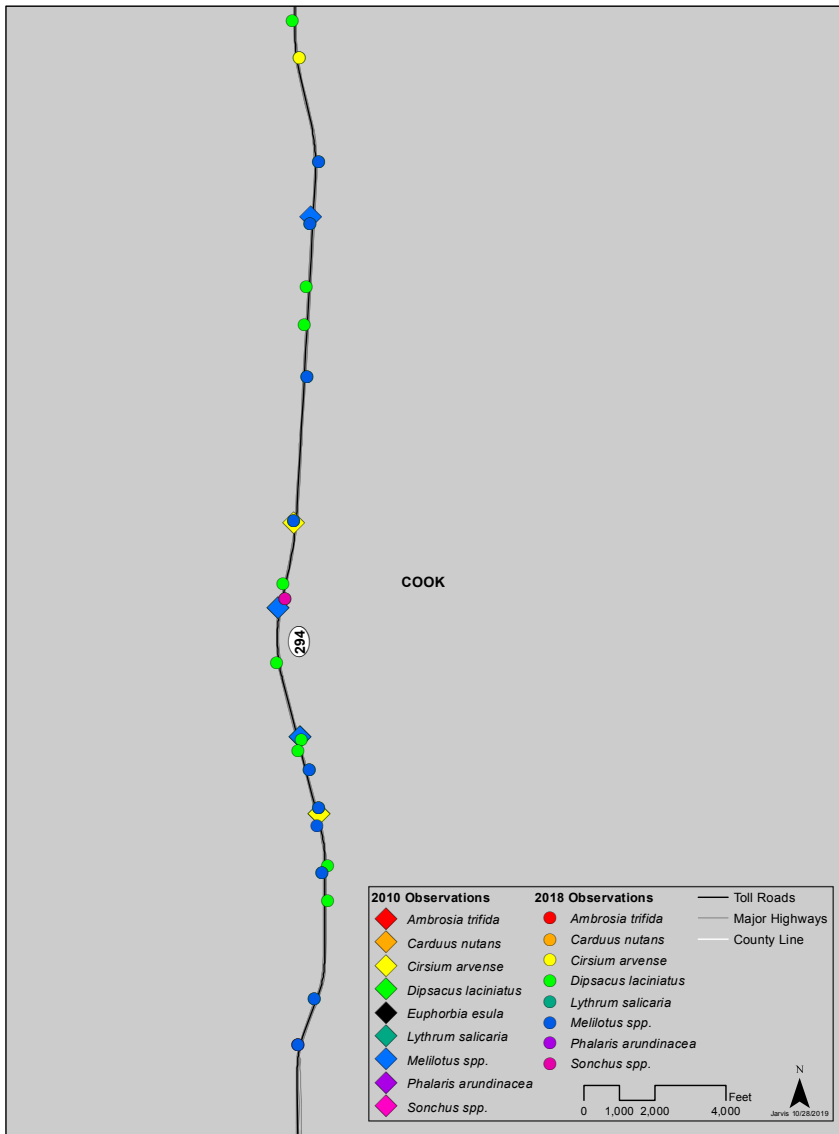
Map 2.36 Enlargement of section 36 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



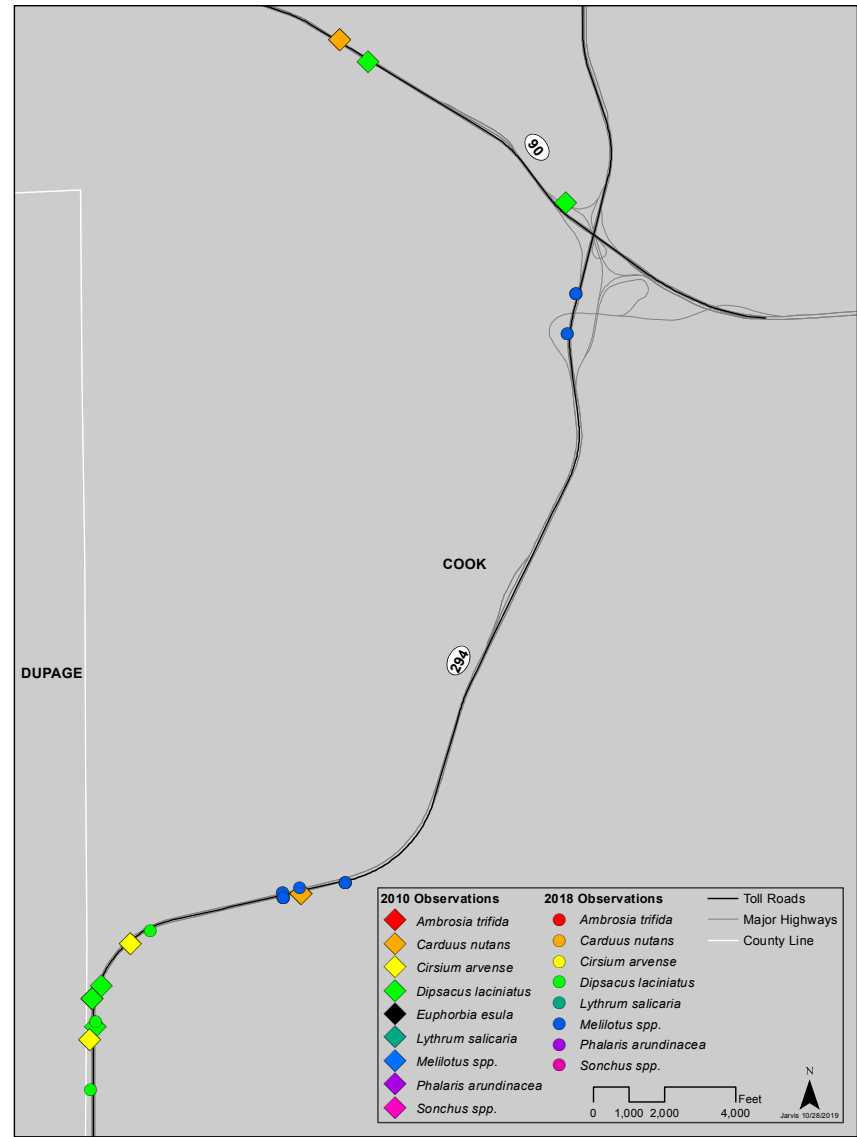
Map 2.37 Enlargement of section 37 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



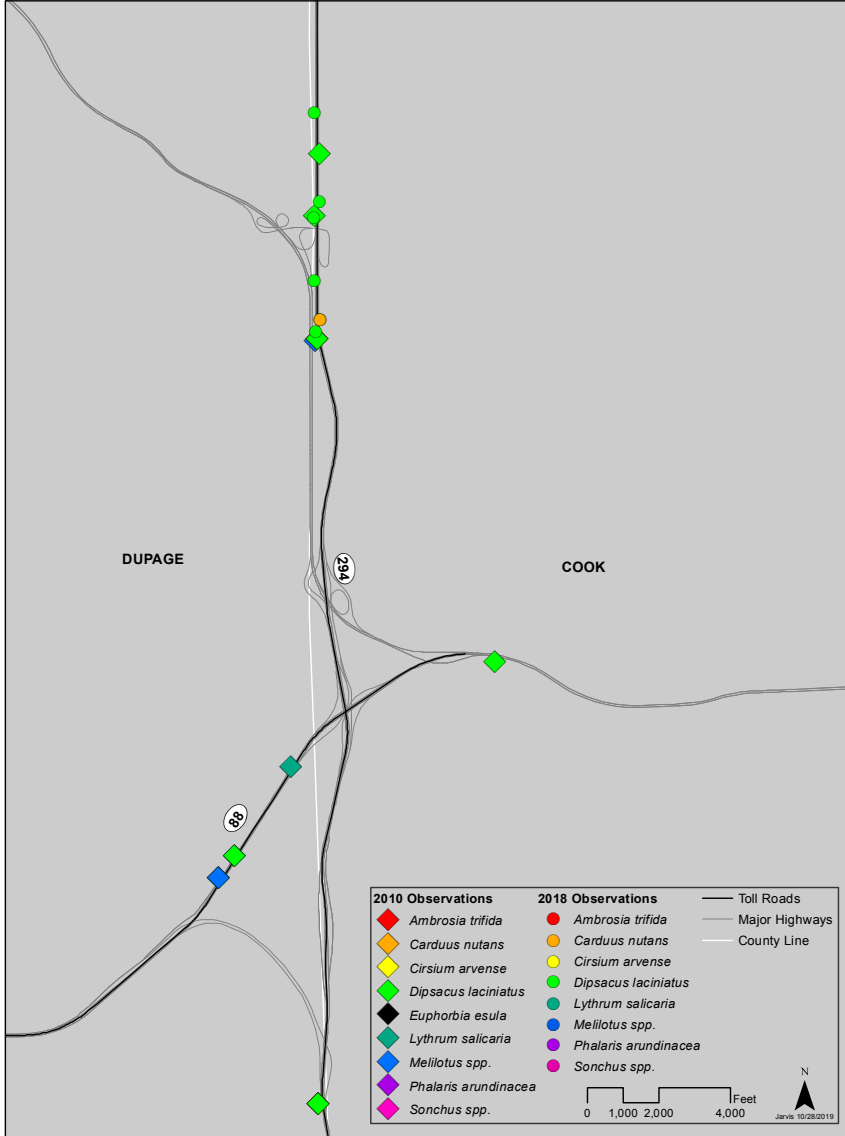
Map 2.38 Enlargement of section 38 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



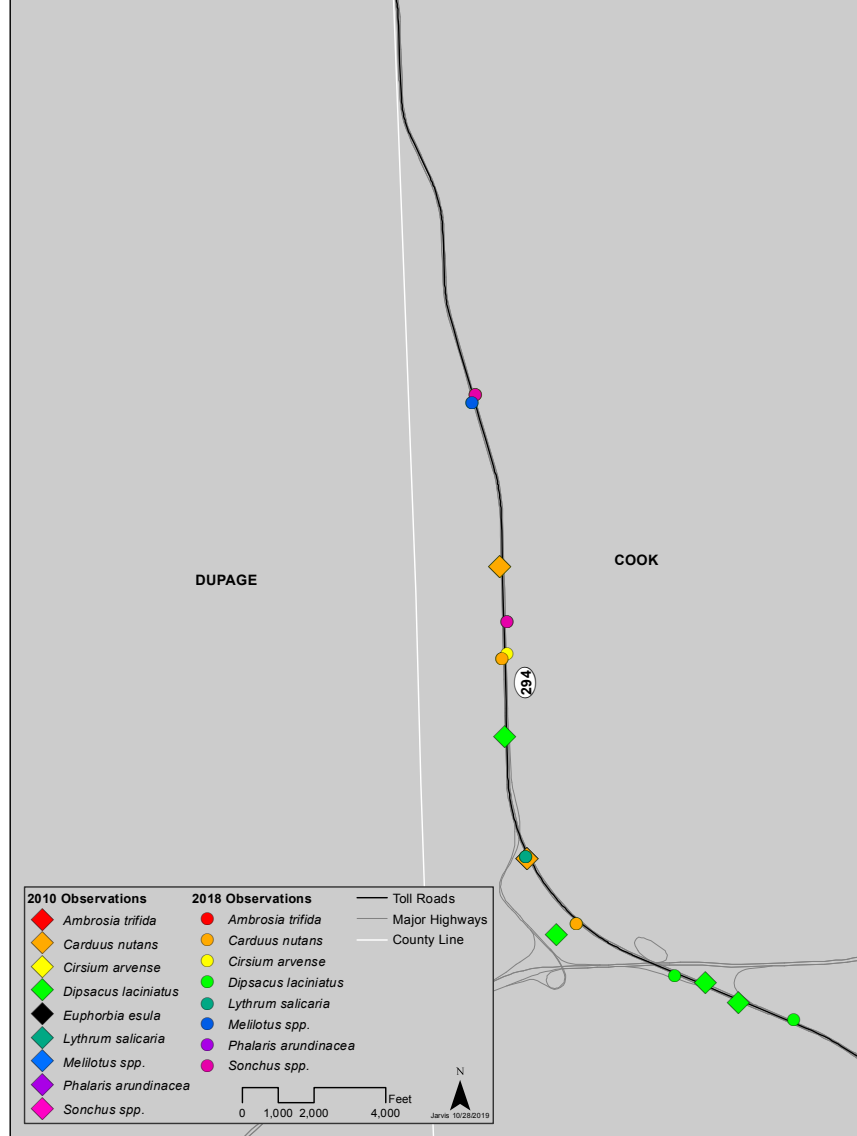
Map 2.39 Enlargement of section 39 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



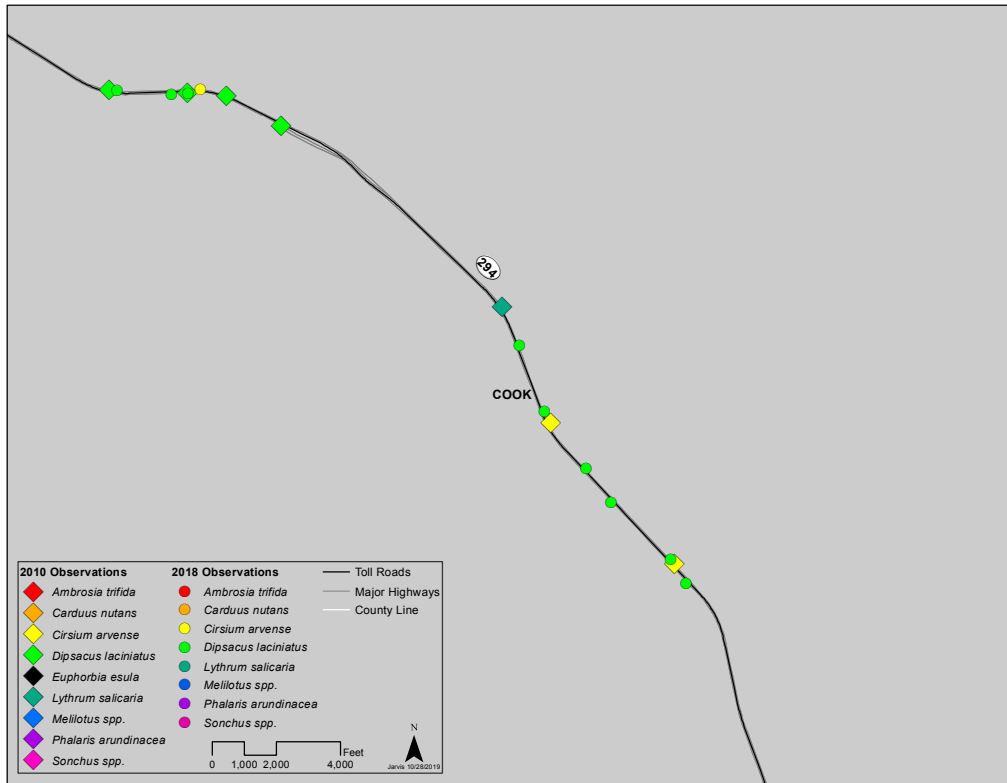
Map 2.40 Enlargement of section 40 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



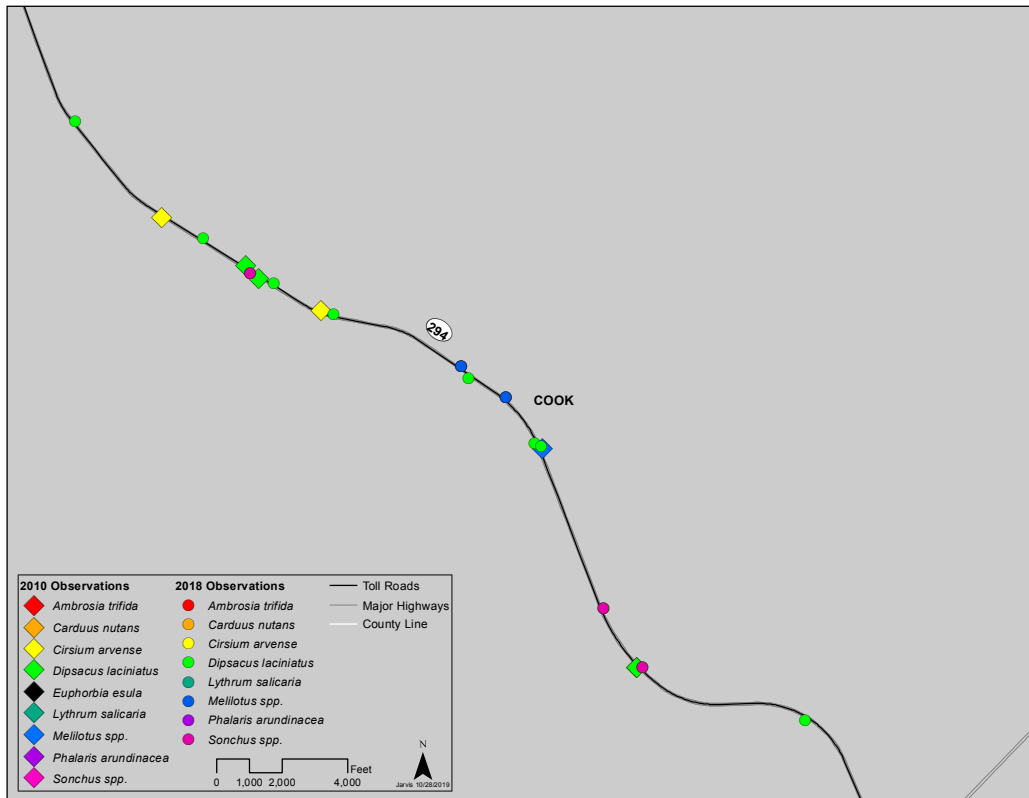
Map 2.41 Enlargement of section 41 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



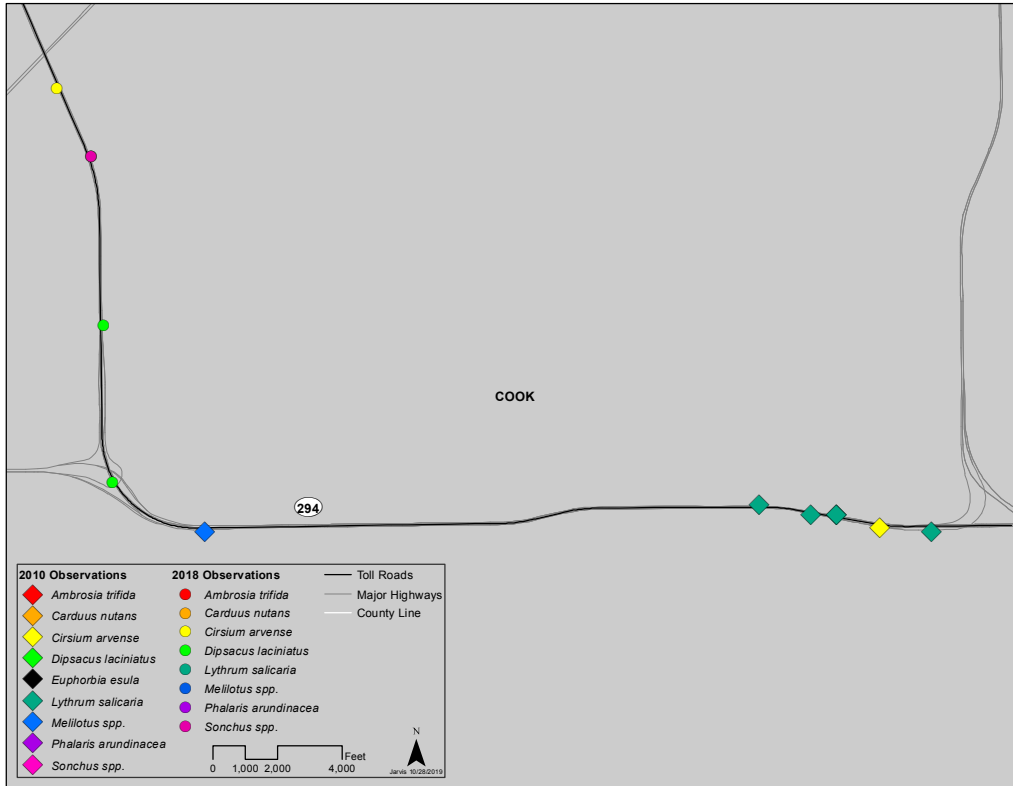
Map 2.42 Enlargement of section 42 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



Map 2.43 Enlargement of section 43 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



Map 2.44 Enlargement of section 44 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.



Map 2.45 Enlargement of section 45 on Map 2 showing distribution of species mapped during the 2018 survey in comparison with data from 2010. Refer to the overview map (Map 2) for regional orientation to map locations.

Appendix 1.

2018 noxious and invasive botanical survey results within the ISTHA system. Not all populations recorded have associated GPS data.

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|------------------------------------|-------------------------------------|-----------------|----------|---------|
| 1 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 74.75 to 74.5, four clumps | 50 | 2 | -89.0929 | 41.8908 |
| 2 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 73.85 | 25 | 2 | -89.0931 | 41.8908 |
| 3 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 71.75 | 10 | 2 | -89.1032 | 41.8884 |
| 4 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 71.75 | 10 | 2 | -89.1466 | 41.8776 |
| 5 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 71.25 to 71.20 | | | -89.1472 | 41.8774 |
| 6 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 71.25 to 71.20 | 25 to 50 | 3 | -89.1553 | 41.8739 |
| 7 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | | | | -89.1564 | 41.8735 |
| 8 | I-80 W | 7/24/18 | <i>Phalaris arundinacea</i> | 70.8 to 70.75 | 25 to 50 | 3 to 4 | -89.1616 | 41.8714 |
| 9 | I-80 W | 7/24/18 | <i>Phalaris arundinacea</i> | | | | -89.1637 | 41.8708 |
| 10 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 70.25 to 69.6 | 25 to 50 | 4 | -89.1851 | 41.8648 |
| 11 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 65.8 to 65.75 | 25 to 50 | 3 | -89.2520 | 41.8434 |
| 12 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | | | | -89.2534 | 41.8429 |
| 13 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 63.80 | 40 to 50 | 2 | -89.2859 | 41.8293 |
| 14 | I-80 W | 7/24/18 | <i>Phalaris arundinacea</i> | 63.10 | 25 to 50 | 2 to 3 | -89.2988 | 41.8232 |
| 15 | I-80 W | 7/24/18 | <i>Sonchus spp</i> | 61.8 to 61.75 | 25 to 50 | 3 to 4 | -89.3225 | 41.8230 |
| 16 | I-80 W | 7/24/18 | <i>Sonchus spp</i> | | | | -89.3234 | 41.8230 |
| 17 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 61.6 to 61.5 | 30 to 50 | 3 | -89.3240 | 41.8230 |
| | I-80 W | | <i>Sonchus spp</i> | | | | | |
| 18 | I-80 W | 7/24/18 | <i>Sonchus spp</i> | | | | -89.3266 | 41.8230 |
| 19 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | 58.8 to 58.2 | 30 to 50 | 3 | -89.3807 | 41.8229 |
| | I-80 W | | <i>Sonchus spp</i> | | | | | |
| 20 | I-80 W | 7/24/18 | <i>Dipsacus laciniatus</i> | | | | -89.3859 | 41.8229 |
| 21 | I-80 W | 7/24/18 | <i>Sonchus spp</i> | 58.30 | 20 to 50 | 3 | -89.3879 | 41.8229 |
| 22 | I-80 W | 7/24/18 | <i>Sonchus spp</i> | | | | -89.3884 | 41.8229 |
| 23 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 58.9 to 58.75 | 0 to 25 | 4 | -89.3980 | 41.8229 |
| 24 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.4010 | 41.8229 |
| 25 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 57.6 to 56.8 | 0 to 50 | 3 to 4 | -89.4046 | 41.8230 |
| 26 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.4187 | 41.8237 |
| 27 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 54.0 to 53.25 | 0 to 50 | 4 to 5 | -89.4764 | 41.8180 |
| 28 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.4844 | 41.8139 |
| 29 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 52.3 to 52.25 | 25 to 40 | 2 to 3 | -89.4989 | 41.8056 |
| 30 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | | | | -89.5002 | 41.8051 |
| 31 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 52.2 to 51.9 | 25 to 50 | 3 to 4 | -89.5001 | 41.8051 |
| 32 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.5042 | 41.8035 |
| 33 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 51.8 to 51.75 | 25 to 50 | 3 | -89.5064 | 41.8026 |
| 34 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | | | | -89.5080 | 41.8020 |
| 35 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 51.75 to 51.7 | 25 to 50 | 4 to 5 | -89.5102 | 41.8011 |
| 36 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | 51.10 | 25 to 50 | 2 to 3 | -89.5197 | 41.7974 |
| 37 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 50 to 49.3 | 0 to 50 | 5 | -89.5338 | 41.7887 |
| 38 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.5355 | 41.7873 |
| 39 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 49.20 | 25 to 50 | 3 to 4 | -89.5408 | 41.7832 |
| 40 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.5447 | 41.7816 |
| 41 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 49.10 | 25 to 50 | 2 to 3 | -89.5494 | 41.7808 |
| 42 | I-80 W | 7/24/18 | <i>Cirsium arvense</i> | | | | -89.5503 | 41.7807 |
| 43 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 49.0 to 48.4 | 25 to 40 | 3 to 4 | -89.5515 | 41.7806 |
| 44 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.5621 | 41.7792 |
| 45 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 48.2, intermittent to Bollman Road | 25 to 50 | 4 to 5 | -89.5665 | 41.7783 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|----------------------------------|---------------------------------|-------------------------------------|-----------------|----------|---------|
| 46 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.5824 | 41.7734 |
| 47 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | 45.9 to 49.3 | 0 to 50 | 4 to 5 | -89.6106 | 41.7665 |
| 48 | I-80 W | 7/24/18 | <i>Melilotus spp</i> | | | | -89.6183 | 41.7666 |
| 49 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> start | 54.1 to 53.5 | 15 to 50 | 2 to 3 | -88.2965 | 42.0685 |
| 50 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 54.20 | 25 | 1 | -88.2966 | 42.0685 |
| 51 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> end | | | | -88.2975 | 42.0687 |
| 52 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | Exit 52 | | 2 | -88.3136 | 42.0720 |
| 53 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 52.30 | >50 | 2 | -88.3335 | 42.0800 |
| 54 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 52.20 | >50 | 3 | -88.3359 | 42.0811 |
| 55 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.3369 | 42.0816 |
| 56 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 52.2 to 50.3 | 25 to 50 | 4 to 5 | -88.3437 | 42.0846 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 57 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.3657 | 42.0942 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 58 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 49.2 to 49.1, from IL 72 bridge | 25 to 50 | 3 | -88.3813 | 42.1009 |
| 59 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.3868 | 42.1027 |
| 60 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 48.9 to 48.375 | 25 to 50 | 2 to 3 | -88.3935 | 42.1049 |
| | I-90 W | | <i>Cirsium arvense</i> | 48.80 | 25 to 50 | 2 | | |
| 61 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | 25 to 50 | 4 to 5 | -88.3943 | 42.1052 |
| 62 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.4033 | 42.1083 |
| 63 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 48.70 | 40 to 50 | 2 | -88.4047 | 42.1089 |
| 64 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.4052 | 42.1092 |
| 65 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 47.8 to 47.3 | 10 to 50 | 2 | -88.4097 | 42.1113 |
| 66 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.4135 | 42.1131 |
| 67 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 47.3 to 47.1 | 0 to 50 | 3 to 4 | -88.4139 | 42.1133 |
| 68 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.4229 | 42.1178 |
| 69 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 43.6 to 45.5 | 40 to 50 | 1 | -88.4443 | 42.1273 |
| 70 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.4478 | 42.1281 |
| | I-90 W | | <i>Melilotus spp</i> | 45.50 | | | | |
| 71 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | 45.40 | 25 to 50 | 2 to 3 | -88.4493 | 42.1285 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 72 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.4499 | 42.1286 |
| 73 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.4509 | 42.1289 |
| 74 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.4509 | 42.1289 |
| 75 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 45.3 to 45.2 | 25 to 50 | 3 | -88.4523 | 42.1293 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 76 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.4543 | 42.1298 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 77 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 45.0 to 44.4 | 25 to 50 | 2 to 3 | -88.4576 | 42.1306 |
| 78 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.4584 | 42.1308 |
| 79 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 45.8 to 45.75 | 25 to 50 | 2 to 3 | -88.4609 | 42.1314 |
| 80 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.4618 | 42.1316 |
| 81 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 44.6 to 44.5 | 25 to 50 | 2 to 3 | -88.4656 | 42.1326 |
| 82 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.4667 | 42.1328 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|----------------------------------|---------------------------------|-------------------------------------|-----------------|----------|---------|
| 83 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.4699 | 42.1336 |
| 84 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | 25 to 50 | 2 | -88.4725 | 42.1343 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| 85 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 44.2 to 44.0 | 25 to 50 | 2 | -88.4757 | 42.1351 |
| 86 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | | | | -88.4777 | 42.1356 |
| 87 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 43.3 to 43.25 | 25 to 75 | 3 | -88.4836 | 42.1370 |
| 88 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.4892 | 42.1384 |
| 89 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 43.3 to 43.25, scattered plants | 25 to 75 | 2 | -88.4892 | 42.1384 |
| 90 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 42.75 to 42.6 | 25 to 50 | 3 | -88.4979 | 42.1406 |
| 91 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.5021 | 42.1417 |
| 92 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 42.7 to 42.5, scattered plants | 25 to 50 | 2 | -88.5021 | 42.1417 |
| 93 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.5048 | 42.1423 |
| 94 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 41.5 to 40.75 | 25 to 50 | 3 to 4 | -88.5218 | 42.1469 |
| | I-90 W | | <i>Cirsium arvense</i> start | 41.50 | 40 to 50 | 2 | | |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Dipsacus laciniatus</i> start | | 25 to 50 | 2 | | |
| 95 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.5239 | 42.1475 |
| | I-90 W | | <i>Dipsacus laciniatus</i> end | 41.25 | | | | |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 96 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.5349 | 42.1508 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> end | | | | | |
| 97 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 40.75 | 25 to 50 | 3 | -88.5356 | 42.1510 |
| | I-90 W | | <i>Melilotus spp</i> | 40.75 to 39.75 | | | | |
| 98 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 40.55 | 15 to 50 | 2 | -88.5394 | 42.1521 |
| 99 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | 40.10 | 25 to 50 | 2 | -88.5472 | 42.1545 |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 100 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 40.00 | 25 to 50 | 2 | -88.5499 | 42.1552 |
| 101 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 39.75 | | | -88.5537 | 42.1564 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 102 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 39.75 to 38.5 | 25 to 50 | 3 to 4 | -88.5549 | 42.1567 |
| | I-90 W | | <i>Melilotus spp</i> start | | | | | |
| 103 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 39.2 to 38.75 | 25 to 50 | 3 | -88.5592 | 42.1580 |
| 104 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.5647 | 42.1596 |
| 105 | I-90 W | 7/25/18 | <i>Melilotus spp</i> end | 38.50 | | | -88.5759 | 42.1631 |
| 106 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 38.50 | 25 to 50 | 3 | -88.5759 | 42.1631 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 107 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | 25 to 50 | 2 | -88.5768 | 42.1635 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | | | | |
| 108 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 38.3 to 38.2 | 25 to 35 | 2 to 3 | -88.5782 | 42.1640 |
| 109 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | | | | -88.5826 | 42.1655 |
| 110 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 38.25 to 37.5 | 25 to 50 | 3 | -88.5838 | 42.1659 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 111 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.5917 | 42.1687 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 112 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 37.60 | 25 to 50 | 2 | -88.5917 | 42.1687 |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | | | | |
| 113 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 37.50 | 40 to 60 | 3 | -88.5940 | 42.1695 |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | | 2 | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 114 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.5951 | 42.1699 |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | | | | |
| 115 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 37.40 | 15 to 30 | 2 | -88.5959 | 42.1702 |
| 116 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 37.25 | 25 to 60 | 3 | -88.5983 | 42.1710 |
| | I-90 W | | <i>Ambrosia trifida</i> | | | | | |
| 117 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.6024 | 42.1724 |
| 118 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 37.20 | 25 to 50 | 3 | -88.6024 | 42.1724 |
| 119 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.6028 | 42.1726 |
| 120 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.6049 | 42.1733 |
| 121 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 37.00 to 36.75 | 25 to 60 | 3 to 4 | -88.6049 | 42.1733 |
| 122 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.6072 | 42.1741 |
| 123 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 36.5 to 36.25 | 25 to 50 | 4 | -88.6094 | 42.1749 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | 3 | | |
| 124 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | | | | -88.6164 | 42.1774 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 125 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 36.2 to 35.7 | 25 to 60+ | 3 | -88.6189 | 42.1782 |
| | I-90 W | | <i>Sonchus spp</i> | | | 4 | | |
| 126 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 35.80 | 25 to 60+ | 3 | -88.6195 | 42.1785 |
| | I-90 W | | <i>Melilotus spp</i> | 36.0 to 35.3 | 25 to 60+ | 4 | | |
| 127 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.6238 | 42.1799 |
| 128 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | 35.70 | 30 to 60 | 2 | -88.6275 | 42.1812 |
| 129 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.6324 | 42.1830 |
| 130 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 35.2 to 34.25 | 40 to 60 | 3 to 4 | -88.6360 | 42.1842 |
| 131 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 35.00 | 25 to 50 | 2 | -88.6393 | 42.1854 |
| 132 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 34.8 to 34.25 | 25 to 35 | 3 | -88.6413 | 42.1861 |
| 133 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 34.6 to 34.25 | 25 to 60 | 3 to 4 | -88.6447 | 42.1873 |
| 134 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 34.2 to 33.9 | 25 to 60 | 3 to 4 | -88.6508 | 42.1894 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 135 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 34.00 | 25 to 50 | 2 to 3 | -88.6530 | 42.1902 |
| 136 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 33.9 to 33.5 | 25 to 35 | 2 to 3 | -88.6574 | 42.1917 |
| 137 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | | | | -88.6643 | 42.1940 |
| 138 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 33.5 to 33.3 | 25 to 60 | 3 to 4 | -88.6643 | 42.1940 |
| 139 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 33.3 to 33.2 | 25 to 60 | 3 to 4 | -88.6667 | 42.1948 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 140 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.6689 | 42.1956 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 141 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 33.20 | 25 to 60 | 2 | -88.6689 | 42.1956 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| 142 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 33.10 | 25 to 50 | 2 | -88.6696 | 42.1958 |
| 143 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 33.00 | 25 to 50 | 2 | -88.6732 | 42.1970 |
| 144 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 32.9 to 32.8 | 25 to 60 | 3 to 4 | -88.6762 | 42.1980 |
| | I-90 W | | <i>Sonchus spp</i> start | | | | | |
| 145 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 32.9 to 32.8 | 25 to 50 | 2 | -88.6799 | 42.1993 |
| | I-90 W | | <i>Sonchus spp</i> end | | | | | |
| 146 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 32.2 to 32.1 | 25 to 50 | 2 | -88.6883 | 42.2018 |
| 147 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.6890 | 42.2020 |
| 148 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 32.1 to 31.75 | 30 to 60 | 2 | -88.6916 | 42.2027 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|--------------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 149 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.6930 | 42.2032 |
| 150 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 31.9 to 31.75 | 40 to 60 | 2 | -88.6941 | 42.2035 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 151 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | | | | -88.6952 | 42.2038 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 152 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 31.75 | 10 to 60 | 3 | -88.6962 | 42.2041 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| | I-90 W | | <i>Ambrosia trifida</i> | | | | | |
| 153 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.6973 | 42.2044 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| | I-90 W | | <i>Ambrosia trifida</i> | | | | | |
| 154 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 31.6 to 31.5 | 25 to 50 | 3 | -88.6989 | 42.2049 |
| | I-90 W | | <i>Lythrum salicaria</i> start | | | 2 | | |
| 155 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> end | | | | -88.7002 | 42.2053 |
| 156 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 31.5 to 31.3 | 25 to 50 | 3 | -88.7002 | 42.2053 |
| 157 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 31.30 | 30 to 50 | 2 | -88.7035 | 42.2063 |
| 158 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 31.2 to 30.6 | 25 to 60 | 3 | -88.7064 | 42.2071 |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 159 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7155 | 42.2098 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 160 | I-90 W | 7/25/18 | <i>Lythrum salicaria</i> | 30.50 | 40 to 60 | 3 | -88.7182 | 42.2106 |
| 161 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 30.40 | 25 to 50 | 2 | -88.7194 | 42.2110 |
| | | | | | | | | |
| 162 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 30.2 to 30.0 | 25 to 60 | 3 | -88.7248 | 42.2125 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 163 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7298 | 42.2140 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 164 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> start | 29.75 to 29.5 | 25 to 60 | 3 to 4 | -88.7327 | 42.2149 |
| | I-90 W | | <i>Sonchus spp</i> start | | | | | |
| 165 | I-90 W | 7/25/18 | <i>Sonchus spp</i> end | | | | -88.7379 | 42.2164 |
| | I-90 W | | <i>Cirsium arvense</i> end | | | | | |
| | I-90 W | | <i>Melilotus spp</i> | 29.75 to 29.3 | 40 to 60 | 3 | | |
| 166 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.7396 | 42.2169 |
| 167 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 29.0 to 28.9 | 40 to 60 | 3 | -88.7456 | 42.2187 |
| 168 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.7474 | 42.2192 |
| 169 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 28.80 | 40 to 60 | 3 | -88.7474 | 42.2192 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 170 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | | | | -88.7488 | 42.2196 |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 171 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 28.75 | 50 to 60 | 2 | -88.7505 | 42.2201 |
| 172 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 28.2 to 28.0 | 25 to 60 | 3 | -88.7594 | 42.2236 |
| 173 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7625 | 42.2248 |
| 174 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7684 | 42.2272 |
| 175 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 27.75 | 25 to 50 | 2 | -88.7696 | 42.2277 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 176 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 26.9 to 26.8 | 25 to 60 | 3 | -88.7809 | 42.2322 |
| 177 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7840 | 42.2333 |

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|-------|----------|---------|-----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 178 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 26.70 | 25 to 60 | 2 | -88.7902 | 42.2340 |
| 179 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 25.8 to 24.4 | 25 to 50 | 3 | -88.8029 | 42.2340 |
| 180 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 25.10 | >60 | 2 | -88.8171 | 42.2340 |
| 181 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.8301 | 42.2339 |
| | I-90 W | | <i>Cirsium arvense</i> | 25.8 to 24.4 | 25 to 50 | 2 to 3 | | |
| 182 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 22.2 to 22.0 | 40 to 60 | 3 to 4 | -88.8744 | 42.2335 |
| 183 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.8787 | 42.2334 |
| 184 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 21.7 to 21.5 | 50 to 60 | 3 | -88.8837 | 42.2334 |
| 185 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.8888 | 42.2334 |
| 186 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 19.2 to 18.5 | 25 to 40 | 2 | -88.9278 | 42.2459 |
| 187 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9348 | 42.2474 |
| | I-90 W | | <i>Cirsium arvense</i> | 18.75 | 15 to 40 | 2 to 3 | | |
| 188 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9380 | 42.2475 |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 189 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 18.60 | 0 to 25 | 2 | -88.9419 | 42.2474 |
| 190 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 16.5 to 15.8 | 0 to 60 | 3 | -88.9646 | 42.2678 |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | | | | |
| 191 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.9646 | 42.2705 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 192 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 15.25 to 15.0 | 0 to 60 | 2 | -88.9645 | 42.2792 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 193 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 14.75 to 14.5 | 50 | 3 | -88.9646 | 42.2875 |
| | I-90 W | | <i>Phalaris arundinacea</i> | 14.75 to 14.2 | 20 | 2 | | |
| 194 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9646 | 42.2943 |
| | I-90 W | | <i>Lythrum salicaria</i> | | | | | |
| -- | I-90 W | | <i>Phalaris arundinacea</i> | 13.10 | 25 to 50 | 2 | -- | -- |
| 195 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 12.25 | 25 to 50 | 2 | -88.9643 | 42.3198 |
| 196 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 11.2 to 11.0 | 10 to 30 | 2 to 3 | -88.9641 | 42.3378 |
| 197 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9641 | 42.3409 |
| 198 | I-90 W | 7/25/18 | <i>Sonchus spp</i> | 10.80 | 0 | 2 | -88.9641 | 42.3423 |
| | I-90 W | | <i>Melilotus spp</i> | | 0 | 2 | | |
| | I-90 W | | <i>Dipsacus laciniatus</i> | | 20 | 2 | | |
| 199 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 10.40 | 0 to 50 | 2 | -88.9640 | 42.3490 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 200 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 9.9 to 9.5 | 10 to 20 | 1 to 2 | -88.9639 | 42.3576 |
| | I-90 W | | <i>Sonchus spp</i> | | | | | |
| 201 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 9.9 to 9.5 | 10 to 20 | 2 to 3 | -88.9640 | 42.3621 |
| 202 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 9.10 | 25 to 50 | 2 | -88.9653 | 42.3678 |
| 203 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 7.60 | 5 to 50 | 2 | -88.9738 | 42.3878 |
| 204 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 7.00 | 25 to 50 | 3 | -88.9789 | 42.3975 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| 205 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 6.7 to 6.3 | 25 to 50 | 2 to 3 | -88.9804 | 42.4002 |
| 206 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.9818 | 42.4025 |
| 207 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 6.10 | 10 to 50 | 2 | -88.9851 | 42.4090 |
| 208 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | 6.0 to 5.75 | 0 to 50 | 2 to 3 | -88.9853 | 42.4126 |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Carduus nutans</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------------|--------------------------|-------------------------------------|-----------------|----------|---------|
| 209 | I-90 W | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.9853 | 42.4169 |
| | I-90 W | | <i>Carduus nutans</i> | | | | | |
| | I-90 W | | <i>Melilotus spp</i> | | | | | |
| | I-90 W | | <i>Cirsium arvense</i> | | | | | |
| 210 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 5.50 | 5 to 50 | 2 | -88.9853 | 42.4180 |
| 211 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 5.30 | 25 to 50 | 2 | -88.9854 | 42.4190 |
| 212 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | 5.3 to 5.0 | 25 to 60+ | 3 | -88.9854 | 42.4199 |
| 213 | I-90 W | 7/25/18 | <i>Melilotus spp</i> | | | | -88.9855 | 42.4248 |
| 214 | I-90 W | 7/25/18 | <i>Dipsacus laciniatus</i> | 4.80 | 40 to 60+ | 2 to 3 | -88.9858 | 42.4266 |
| 215 | I-90 W | 7/25/18 | <i>Cirsium arvense</i> | 2.00 | 60+ | 3 to 4 | -88.9948 | 42.4577 |
| 216 | I-90 W | 7/25/18 | <i>Phalaris arundinacea</i> | 1.25 | 20 to 40 | 2 | -88.9949 | 42.4778 |
| | I-90 W | | <i>Cirsium arvense</i> | 0.75 | 20 to 40 | 2 | | |
| 217 | I-90E | 7/25/18 | <i>Carduus nutans</i> | 5.75 | 25 to 50 | 1 to 2 | -88.9859 | 42.4237 |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | | | |
| 218 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 5.70 | 0 to 60 | 3 | -88.9858 | 42.4182 |
| | I-90E | | <i>Carduus nutans</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> start | | | 3 to 4 | | |
| 219 | I-90E | 7/25/18 | <i>Melilotus spp</i> end | 6.00 | 0 to 60 | | -88.9857 | 42.4100 |
| 220 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 6.50 | 25 to 50 | 2 | -88.9829 | 42.4035 |
| 221 | I-90E | 7/25/18 | <i>Melilotus spp</i> | 6.7 to 8.1 | 0 to 50 | 2 | -88.9727 | 42.3840 |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 222 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 8.80 | 50 to 100 | 3 to 4 | -88.9686 | 42.3747 |
| 223 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 9.9 to 10.0 | 25 to 40 | 2 | -88.9644 | 42.3558 |
| 224 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 10.1 to 10.25 | 0 to 50 | 2 | -88.9644 | 42.3530 |
| 225 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | | | | -88.9645 | 42.3514 |
| 226 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 10.30 | 50 to 70 | 2 | -88.9645 | 42.3490 |
| 227 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 10.70 | 50 to 70 | 1 to 2 | -88.9645 | 42.3452 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 228 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 10.75 to 11.6 | 25 to 70 | 3 | -88.9646 | 42.3318 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| | I-90E | | <i>Phalaris arundinacea</i> | 11.5 to 11.6 | 25 to 50 | 2 | | |
| 229 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 11..8 to 12.1 | 25 to 40 | 2 | -88.9647 | 42.3277 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 230 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9647 | 42.3245 |
| 231 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 14.30 | 25 to 60 | 3 | -88.9650 | 42.2911 |
| 232 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 14.25 to 14.5 | 25 to 60 | 3 to 4 | -88.9650 | 42.2846 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | | | |
| 233 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 15.00 | | | -88.9651 | 42.2749 |
| 234 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 15.25 | 25 to 60 | 3 | -88.9650 | 42.2696 |
| 235 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | on-ramp to Bus. US 20 | 0 to 60 | 4 | -88.9538 | 42.2469 |
| -- | I-90E | | <i>Cirsium arvense</i> | 16.2, 17.6 to 17.7 | 0 to 60 | 2 | -- | -- |
| -- | I-90E | | <i>Dipsacus laciniatus</i> | 16.8, 17.4, 17.6 to 17.7 | 0 to 60 | 2 to 3 | -- | -- |
| 236 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.9382 | 42.2471 |
| 237 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> start | 18.5 to 19.0 | | 3 to 4 | -88.9300 | 42.2461 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 238 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> end | | | | -88.9249 | 42.2441 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|-------------------------------------|-------------------------------------|-----------------|----------|---------|
| 239 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 19.0 to 19.25 | | 3 | -88.9229 | 42.2429 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 240 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 20.25 to 20.3 | 25 to 50 | 3 | -88.9108 | 42.2352 |
| 241 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.9094 | 42.2346 |
| 242 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 20.90 | 25 to 60 | 3 | -88.8977 | 42.2328 |
| 243 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 21.25 | 50 to 100 | 3 to 4 | -88.8914 | 42.2330 |
| 244 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 21.6 to 22.25 | 25 to 50 | 3 | -88.8836 | 42.2330 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 245 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.8725 | 42.2331 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 246 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 22.6 to 22.75 | 25 to 50 | 3 to 4 | -88.8664 | 42.2332 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 247 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.8626 | 42.2332 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 248 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 23.50 | 25 to 50 | 2 to 3 | -88.8475 | 42.2333 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 249 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 24.25 | 10 to 40 | 3 | -88.8224 | 42.2335 |
| 250 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 25.5 to 26.0 | 30 to 60 | 3 to 4 | -88.8072 | 42.2336 |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 251 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7993 | 42.2336 |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 252 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 26.20 | 30 to 60 | 2 | -88.7956 | 42.2336 |
| 253 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 26.2 to 26.3 | 10 to 50 | 3 to 4 | -88.7890 | 42.2336 |
| | I-90E | | <i>Cirsium arvense</i> | | | 2 | | |
| 254 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 27.20 | 30 to 60 | 2 | -88.7725 | 42.2284 |
| 255 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 26.5 to 27.75 | 25 to 60 | 3 to 4 | -88.7676 | 42.2264 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 256 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 28.0 to 28.3 | 25 to 60 | 3 | -88.7613 | 42.2239 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 257 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.7575 | 42.2224 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 258 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 29.1 to 29.2 | 30 to 70 | 3 to 4 | -88.7422 | 42.2172 |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| 259 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.7380 | 42.2160 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 260 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 30.1 to 30.25 | 25 to 50 | 3 | -88.7250 | 42.2122 |
| 261 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 30.5 to 29.9 | 40 to 60 | 2 | -88.7175 | 42.2100 |
| 262 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 29.8 to 29.9 | 40 to 60 | 3 | -88.7125 | 42.2085 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 263 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 31.25 | 25 to 50 | 2 | -88.7067 | 42.2068 |
| 264 | I-90E | 7/25/18 | <i>Sonchus spp</i> start | 31.25 to 31.75, from County Line Rd | 25 to 60 | | -88.7033 | 42.2058 |
| 265 | I-90E | 7/25/18 | <i>Lythrum salicaria</i> | 31.70 | 25 to 60 | 2 | -88.6974 | 42.2041 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|------------------------------|--|-------------------------------------|-----------------|----------|---------|
| 266 | I-90E | 7/25/18 | <i>Sonchus spp</i> end | | | | -88.6945 | 42.2032 |
| | I-90E | | <i>Cirsium arvense</i> begin | | 25 to 50 | 3 | | |
| 267 | I-90E | 7/25/18 | end <i>Cirsium arvense</i> | | | | -88.6682 | 42.1949 |
| | I-90E | | <i>Phalaris arundinacea</i> | 31.8 to 33.3 | 25 to 50 | 3 | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| 268 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 33.4 to 34.3 | 25 to 50 | 4 | -88.6659 | 42.1942 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 269 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.6493 | 42.1885 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| 270 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 34.2 to 34.75, scattered <i>Lythrum</i> and <i>Dipsacus</i> | 25 to 50 | 3 | -88.6475 | 42.1879 |
| 271 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | | | | -88.6424 | 42.1861 |
| 272 | I-90E | 7/25/18 | <i>Phalaris arundinacea</i> | 34.90 | 25 to 60 | 2 | -88.6387 | 42.1848 |
| 273 | I-90E | 7/25/18 | <i>Melilotus spp</i> | 32.25 | 25 to 50 | 2 | -88.6319 | 42.1824 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 274 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 35.70 | 40 to 50 | 1 | -88.6274 | 42.1808 |
| 275 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 35.80 | 25 to 50 | 2 | -88.6243 | 42.1797 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 276 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 36.40 | 40 to 60 | 2 to 3 | -88.6127 | 42.1756 |
| 277 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 36.4 to 36.75 | 30 to 60 | | -88.6071 | 42.1737 |
| | I-90E | | <i>Sonchus spp</i> | 36.4 to 37.0 | 40 to 60 | 3 | | |
| | I-90E | | <i>Lythrum salicaria</i> | | | 1 | | |
| 278 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | 37.1 to 37.25 | 40 to 60 | 4 to 5 | -88.6012 | 42.1716 |
| 279 | I-90E | 7/25/18 | <i>Ambrosia trifida</i> | | | | -88.5985 | 42.1707 |
| 280 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 37.25 to 37.5 | 25 to 50 | 3 to 4 | -88.5941 | 42.1691 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| | I-90E | | <i>Dipsacus laciniatus</i> | toll plaza to 38.0 | | | | |
| 281 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 38.25 | 30 to 70 | 3 to 4 | -88.5807 | 42.1644 |
| | I-90E | | <i>Ambrosia trifida</i> | | | | | |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| 282 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 38.25 to 39.25 | 25 to 60 | 3 to 4 | -88.5632 | 42.1588 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 283 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 39.30 | 30 to 60 | 2 | -88.5622 | 42.1585 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 284 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 39.70 | 40 to 60 | 2 | -88.5548 | 42.1563 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 285 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 39.9 to 40.75 | 40 to 60 | 3 to 4 | -88.5503 | 42.1549 |
| 286 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.5362 | 42.1508 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 287 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 41.0 to 41.9 | 40 to 60 | 2 to 3 | -88.5214 | 42.1464 |
| 288 | I-90E | 7/25/18 | <i>Sonchus spp</i> | | | | -88.5160 | 42.1448 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 289 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 42.70 | 25 to 60 | 2 | -88.4997 | 42.1407 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|---------------------------------------|-------------------------------------|-----------------|----------|---------|
| 290 | I-90E | 7/25/18 | <i>Lythrum salicaria</i> | 42.7 to 43.0 | 15 to 50 | 2 | -88.4964 | 42.1398 |
| | I-90E | | <i>Phalaris arundinacea</i> | | | | | |
| 291 | I-90E | 7/25/18 | <i>Sonchus spp</i> | 43.25 | 40 to 60 | 2 | -88.4898 | 42.1382 |
| 292 | I-90E | 7/25/18 | <i>Carduus nutans</i> | 43.75 to 44.0 | 50 to 60 | 2 | -88.4804 | 42.1358 |
| 293 | I-90E | 7/25/18 | <i>Carduus nutans</i> | | | | -88.4761 | 42.1348 |
| 294 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 44.4 to 44.7 | 25 to 50 | 3 | -88.4678 | 42.1327 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 295 | I-90E | 7/25/18 | <i>Sonchus spp</i> | | | | -88.4623 | 42.1313 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| 296 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 45.00 | 40 to 60 | 3 | -88.4584 | 42.1304 |
| 297 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 45.6 to 46.0 | 30 to 60 | 2 to 3 | -88.4480 | 42.1278 |
| 298 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.4414 | 42.1260 |
| 299 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 47.7 to 49.25 | 30 to 50 | 2 | -88.4198 | 42.1157 |
| 300 | I-90E | 7/25/18 | <i>Dipsacus laciniatus</i> | 47.90 | 25 to 50 | 2 | -88.4091 | 42.1106 |
| 301 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.4047 | 42.1085 |
| 302 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | | | | -88.3845 | 42.1016 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 303 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 49.25 to 49.75 | 25 to 60 | 3 to 4 | -88.3767 | 42.0986 |
| 304 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 49.75 to 50.75 | 30 to 60 | 3 to 4 | -88.3632 | 42.0927 |
| 305 | I-90E | 7/25/18 | <i>Cirsium arvense</i> | 51.00 | 30 to 60 | 2 | -88.3554 | 42.0893 |
| 306 | I-90E | 7/25/18 | <i>Melilotus spp</i> | 51.40 | 30 to 60 | 3 | -88.3495 | 42.0866 |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | | | |
| -- | I-90E | | <i>Dipsacus laciniatus</i> | 53.00 | 25 to 60 | 3 | -- | -- |
| 307 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | 57.80 | 50+ | 3 | -88.2284 | 42.0663 |
| 308 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -88.2210 | 42.0663 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| 309 | I-90E | 7/26/18 | <i>Melilotus spp</i> | 60.75 to 61.0 | 10 to 50 | 2 | -88.1722 | 42.0664 |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | 1 | | |
| 310 | I-90E | 7/26/18 | <i>Melilotus spp</i> | | | | -88.1694 | 42.0664 |
| | I-90E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 311 | I-90E | 7/26/18 | <i>Melilotus spp</i> | 61.0 to 61.3 | 5 to 60 | 3 to 4 | -88.1616 | 42.0664 |
| 312 | I-90E | 7/26/18 | <i>Melilotus spp</i> | 61.3 to 61.5 | 10 to 50 | 2 to 3 | -88.1583 | 42.0663 |
| 313 | I-90E | 7/26/18 | <i>Cirsium arvense</i> | 63.00 | 25 to 40 | 2 | -88.1290 | 42.0664 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| 314 | I-90E | 7/26/18 | <i>Cirsium arvense</i> | 65.9 to 66.1, onto I-290 exit 68 ramp | 5 to 50 | 3 | -88.0731 | 42.0628 |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| 315 | I-90E | 7/26/18 | <i>Melilotus spp</i> | | | | -88.0696 | 42.0623 |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| -- | I-90E | | <i>Melilotus spp</i> | | | | -- | -- |
| | I-90E | | <i>Dipsacus laciniatus</i> | 70.00 | 5 to 50 | 3 | | |
| 316 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | 70.80 | 30 to 60+ | 2 | -87.9825 | 42.0397 |
| 317 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | 71.3 to 71.7 | 5 to 50 | 2 to 3 | -87.9762 | 42.0366 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| 318 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.9717 | 42.0337 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|---|---------------------------------|-------------------------------------|-----------------|----------|---------|
| 319 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | 72.10 | 0 to 25 | 2 | -87.9651 | 42.0288 |
| 320 | I-90E | 7/26/18 | <i>Dipsacus laciniatus</i> | 73.50 | 25 to 60+ | 2 | -87.9425 | 42.0183 |
| | I-90E | | <i>Melilotus spp</i> | | | | | |
| | I-90E | | <i>Sonchus spp</i> | | | | | |
| | I-90E | | <i>Cirsium arvense</i> | | | | | |
| -- | I-90E | | <i>Dipsacus laciniatus</i> | at Lee Rd | -- | 2 to 3 | -- | -- |
| -- | I-90E | | <i>Dipsacus, Cirsium, and Melilotus</i> | at I-294 entrance ramp | -- | 3 to 4 | -- | -- |
| 321 | I-294S | 7/26/18 | <i>Sonchus spp</i> | 40.5 to 40.25 | 50 to 70+ | 3 | -87.8694 | 41.9859 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-294S | | <i>Melilotus spp</i> | | | | | |
| 322 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.8703 | 41.9827 |
| | I-294S | | <i>Melilotus spp</i> | 39.25 to 39.0 | | | | |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 323 | I-294S | 7/26/18 | <i>Melilotus spp</i> | 36.8 to 36.6 | -- | 2 | -87.8982 | 41.9401 |
| 324 | I-294S | 7/26/18 | <i>Melilotus spp</i> | | -- | | -87.9000 | 41.9398 |
| -- | I-294S | | <i>Melilotus spp</i> | 35.7 to 35.5 | -- | 2 to 3 | -- | -- |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 325 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 35.0 to 34.25 | 15 to 50 | 3 to 4 | -87.9200 | 41.9246 |
| 326 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.9200 | 41.9154 |
| 327 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 34.2 to 33.0 | 0 to 50 | 3 to 4 | -87.9201 | 41.9074 |
| 328 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.9201 | 41.9025 |
| 329 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | to Lake St/North Ave exit | 0 to 60+ | 4 | -87.9200 | 41.8986 |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | at exit 31 | -- | 3 | -- | -- |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 29.30 | | 2 to 3 | -- | -- |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | at exit 27 | | 2 to 3 | -- | -- |
| 330 | I-294S | 7/26/18 | <i>Melilotus spp</i> | 26.50 | 0 to 50 | 2 to 3 | -87.9111 | 41.8039 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 331 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 25.1 to 25.0, at Hinsdale Oasis | 15 to 50 | 3 | -87.9082 | 41.7843 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| | I-294S | | <i>Carduus nutans</i> | | | | | |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 24.50 | 0 to 50 | 2 | -- | -- |
| 332 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 24.10 | 30 to 50 | 2 | -87.9059 | 41.7692 |
| | I-294S | | <i>Lythrum salicaria</i> | | | | | |
| 333 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 24.1 to 23.5, to Joliet Rd | 0 to 50 | 3 | -87.9007 | 41.7640 |
| | I-294S | | <i>Carduus nutans</i> | | | 1 | | |
| 334 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 23.5 to 23.0, to I-55 | 0 to 50 | | -87.8907 | 41.7600 |
| 335 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 20.6 to 20.5 | 50 to 100 | 3 | -87.8488 | 41.7464 |
| 336 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.8470 | 41.7465 |
| 337 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 17.25 to 16.25 | 0 to 60+ | 4 to 5 | -87.7989 | 41.7113 |
| 338 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | IL 43 exit | | | -87.7904 | 41.7044 |
| 339 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 13.25 to 12.5, to Cicero exit | 0 to 60+ | 3 | -87.7586 | 41.6691 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 340 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | to 11.75 | 10 to 60+ | 4 | -87.7343 | 41.6603 |
| 341 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 11.5 to 11.25 | 0 to 60 | 3 | -87.7270 | 41.6548 |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 10.1 to 10.0 | | 2 to 3 | -- | -- |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 9.75 to 9.6 | | 2 to 3 | -- | -- |
| 342 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 9.0 to 8.75 | 0 to 60 | 3 | -87.6969 | 41.6315 |
| 343 | I-294S | 7/26/18 | <i>Cirsium arvense</i> | 7.5, IL 51 exit | 60 to 75 | 2 | -87.6859 | 41.6155 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|----------------------------|-----------------------------------|-------------------------------------|-----------------|----------|---------|
| 344 | I-294S | 7/26/18 | <i>Dipsacus laciniatus</i> | 5.2 to 5.0 | 25 to 60 | 3 | -87.6799 | 41.5820 |
| 345 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 5.0 to 6.0, toll plaza to exit 6A | 25 to 60 | 4 | -87.6808 | 41.5954 |
| 346 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 6.5 to 7.0 | 5 to 60 | 4 | -87.6820 | 41.6098 |
| | I-294N | | <i>Sonchus spp</i> | | | 1 | | |
| 347 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 7.6 to 10.1 | 0 to 50 | 4 | -87.7150 | 41.6359 |
| | I-294N | | <i>Sonchus spp</i> | | | 1 | | |
| 348 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.7194 | 41.6409 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| 349 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 11.1, at 31st St | 0 to 50 | 2 to 3 | -87.7262 | 41.6545 |
| 350 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 11.50 | 0 to 50 | 2 | -87.7302 | 41.6586 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 351 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 12.00 | 0 to 75 | 4 | -87.7351 | 41.6612 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 352 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 12.50 | 25 to 50 | 2 | -87.7493 | 41.6657 |
| 353 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 13.0 to 13.5 | 0 to 50 | 4 to 5 | -87.7559 | 41.6684 |
| 354 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | | | | -87.7638 | 41.6721 |
| 355 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 13.5 to 14.6 | 10 to 60 | 4 to 5 | -87.7780 | 41.6820 |
| 356 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 16.25 to 16.5 | 5 to 50 | 4 | -87.7921 | 41.7064 |
| 357 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 17.0 to exit 17 | 5 to 50 | 2 to 3 | -87.8018 | 41.7142 |
| 358 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 17.50 | 0 to 60 | 2 to 3 | -87.8064 | 41.7191 |
| 359 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 17.75 to 18.0 | 10 to 60 | 3 to 4 | -87.8092 | 41.7248 |
| 360 | I-294N | 7/26/18 | <i>Cirsium arvense</i> | 20.25 | 10 to 50 | 2 to 3 | -87.8455 | 41.7469 |
| 361 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 20.9 to 21.0 | 10 to 60 | 2 | -87.8551 | 41.7468 |
| 362 | I-294N | 7/26/18 | <i>Dipsacus laciniatus</i> | 22.80 | 25 to 60 | 2 | -87.8785 | 41.7565 |
| 363 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 25.0, at oasis | 25 to 60 | 3 | -87.9077 | 41.7847 |
| 364 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 25.25 to 26.25 | 15 to 60 | 3 | -87.9077 | 41.7872 |
| | I-294N | | <i>Sonchus spp</i> | | | 1 to 2 | | |
| -- | I-294N | | <i>Dipsacus laciniatus</i> | at exit 29 | 15 to 75 | 2 to 3 | -- | -- |
| 365 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9108 | 41.8046 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| 366 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 33.10 | 0 to 50 | 2 to 3 | -87.9195 | 41.8995 |
| | I-294N | | <i>Carduus nutans</i> | | | 1 | | |
| 367 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 33.75 to 34.0 | 0 to 60 | 3 | -87.9195 | 41.9086 |
| 368 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 35.2 to 35.8 | 0 to 60 | 3 | -87.9194 | 41.9298 |
| 369 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9137 | 41.9368 |
| 370 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 36.6 to 36.9 | 0 to 50 | 3 | -87.9000 | 41.9393 |
| | I-294N | | <i>Melilotus spp</i> | | | 2 | | |
| | I-294N | | <i>Sonchus spp</i> | | | 2 | | |
| | I-294N | | <i>Cirsium arvense</i> | | | 2 | | |
| 371 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8936 | 41.9405 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| 372 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 43.25 to 43.5 | 0 to 25 | 2 to 3 | -87.8652 | 42.0257 |
| 373 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8652 | 42.0284 |
| 374 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 43.75 to 44.0 | 0 to 50 | 3 | -87.8661 | 42.0329 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 375 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8671 | 42.0358 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 376 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 44.10 | 10 to 60 | 2 | -87.8679 | 42.0381 |
| 377 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 44.8 to 45.0 | 0 to 50 | 2 | -87.8695 | 42.0490 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| 378 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 46.0 to 47.25 | 0 to 60 | 3 to 4 | -87.8671 | 42.0662 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 379 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 47.75 to 48.4 | 0 to 60 | 4 | -87.8658 | 42.0828 |
| | I-294N | | <i>Melilotus spp</i> | | | 2 to 3 | | |
| 380 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8677 | 42.0909 |
| | I-294N | | <i>Cirsium arvense</i> | | | 2 to 3 | | |
| 381 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8677 | 42.0997 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| 382 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 48.00 | 10 to 50 | 2 | -87.8678 | 42.1053 |
| 383 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 48.9 to 51.75 | 30 to 50 | 4 | -87.8789 | 42.1177 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Lythrum salicaria</i> | | | | | |
| 384 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8856 | 42.1415 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Lythrum salicaria</i> | | | | | |
| -- | I-294N | | <i>Dipsacus laciniatus</i> | at exit 52 | | | -- | -- |
| 385 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 52.5 to 52.75 | 0 to 75 | 4 | -87.8722 | 42.1524 |
| | I-294N | | <i>Melilotus spp</i> | | | 2 | | |
| 386 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 24.00 | 25 to 50 | 3 | -87.8738 | 42.1622 |
| 387 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 24.25 to 22.1 | 0 to 50 | 4 | -87.8763 | 42.1834 |
| | I-294N | | <i>Lythrum salicaria</i> | | | 2 | | |
| 388 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8841 | 42.1945 |
| | I-294N | | <i>Lythrum salicaria</i> | | | | | |
| 389 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 21.60 | 25 to 60 | 2 | -87.8884 | 42.2000 |
| 390 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 21.3 to 20.5 | 0 to 60 | 4 | -87.8914 | 42.2065 |
| | I-294N | | <i>Sonchus spp</i> | | | 2 | | |
| | I-294N | | <i>Melilotus spp</i> | | | 2 | | |
| | I-294N | | <i>Cirsium arvense</i> | | | 2 | | |
| 391 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.8970 | 42.2189 |
| 392 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 20.1 to 19.1 | 0 to 60 | 4 | -87.8998 | 42.2253 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 393 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9011 | 42.2326 |
| 394 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 18.75 | 0 to 60 | 3 to 4 | -87.9011 | 42.2452 |
| | I-294N | | <i>Dipsacus laciniatus</i> | | | | | |
| 395 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 18.00 | 25 to 50 | 2 | -87.9011 | 42.2546 |
| 396 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 17.75 to 17.5 | 15 to 50 | 3 | -87.9024 | 42.2599 |
| | I-294N | | <i>Lythrum salicaria</i> | | | | | |
| 397 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 17.25 to 16.0 | 30 to 100 | 4 | -87.9072 | 42.2667 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 398 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9120 | 42.2794 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 399 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 16.0 to 15.25 | 0 to 100 | 4 | -87.9100 | 42.2825 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 400 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9053 | 42.2899 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 401 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 14.75 to 14.5 | 25 to 50 | 2 to 3 | -87.9025 | 42.2964 |
| 402 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | | | | -87.9028 | 42.3011 |
| 403 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 13.80 | 0 to 50 | 2 | -87.9045 | 42.3113 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 404 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 13.50 | 30 to 60 | 2 | -87.9053 | 42.3167 |
| | I-294N | | <i>Dipsacus laciniatus</i> | | | | | |
| 405 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 13.2 to 12.6 | 0 to 50 | 3 | -87.9060 | 42.3209 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| 406 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9068 | 42.3252 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| 407 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 12.00 | 20 to 60 | 2 | -87.9149 | 42.3367 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 408 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 11.25 | 0 to 60 | 2 | -87.9227 | 42.3451 |
| | I-294N | | <i>Melilotus spp</i> | | | 1 | | |
| 409 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 10.70 | 25 to 60 | 2 | -87.9273 | 42.3500 |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 410 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 10.5 to 10.3 | 25 to 50 | 3 to 4 | -87.9294 | 42.3524 |
| | I-294N | | <i>Carduus nutans</i> | | | 1 | | |
| 411 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 10.5 to 10.25 | 10 to 50 | 3 | -87.9313 | 42.3544 |
| | I-294N | | <i>Dipsacus laciniatus</i> | | | | | |
| 412 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9336 | 42.3570 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| | I-294N | | <i>Lythrum salicaria</i> | | | | | |
| -- | I-294N | | <i>Dipsacus laciniatus</i> | 9.75 to 9.5 | 0 to 50 | 2 | -- | -- |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| | I-294N | | <i>Melilotus spp</i> | | | | | |
| 413 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 5.60 | 10 to 60 | 2 | -87.9473 | 42.4221 |
| 414 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 3.25 to 2.8 | 5 to 60 | 3 | -87.9606 | 42.4559 |
| 415 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9618 | 42.4601 |
| | I-294N | | <i>Cirsium arvense</i> | | | 2 | | |
| | I-294N | | <i>Lythrum salicaria</i> | | | 2 | | |
| 416 | I-294N | 7/31/18 | <i>Dipsacus laciniatus</i> | 2.20 | 25 to 60 | 2 | -87.9633 | 42.4700 |
| 417 | I-294N | 7/31/18 | <i>Cirsium arvense</i> | 1.50 | 0 to 60 | 2 | -87.9535 | 42.4761 |
| | I-294N | | <i>Sonchus spp</i> | | | | | |
| 418 | I-294N | 7/31/18 | <i>Phalaris arundinacea</i> | 1.30 | 20 to 60 | 3 | -87.9513 | 42.4769 |
| | I-294N | | <i>Cirsium arvense</i> | | | | | |
| 419 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 0.25 | 50 to 75 | 1 to 2 | -87.9477 | 42.4866 |
| 420 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 1.25 | 15 to 75 | 1 to 2 | -87.9517 | 42.4772 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 421 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | 1.6 to 2.5 | 15 to 75 | 3 to 4 | -87.9591 | 42.4745 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 422 | I-294S | 7/31/18 | <i>Lythrum salicaria</i> | 2.00 | 25 to 50 | 2 | -87.9633 | 42.4711 |
| 423 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 2.50 | 15 to 60 | 2 | -87.9643 | 42.4679 |
| 424 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9638 | 42.4647 |
| 425 | I-294S | 7/31/18 | <i>Phalaris arundinacea</i> | 2.80 | 0 to 75 | 2 | -87.9623 | 42.4596 |
| | I-294S | | <i>Melilotus spp</i> | | | | | |
| 426 | I-294S | 7/31/18 | <i>Phalaris arundinacea</i> | 2.90 | 10 to 75 | 2 | -87.9618 | 42.4580 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 427 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | 3.3 to 3.4 | 30 to 50 | 2 | -87.9605 | 42.4536 |
| 428 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | | | | -87.9602 | 42.4525 |
| 429 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 3.50 | 30 to 60 | 2 | -87.9594 | 42.4498 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| 430 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | | 0 to 60 | 2 | -87.9585 | 42.4467 |
| 431 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | 5.25 to 5.5 | 25 to 75 | 3 to 4 | -87.9483 | 42.4269 |
| 432 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | | | | -87.9478 | 42.4226 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 433 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 5.6 to 5.7 | 15 to 75 | 3 | -87.9478 | 42.4221 |
| 434 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9479 | 42.4206 |
| | I-294S | | end <i>Cirsium arvense</i> | | | 1 | | |
| 435 | I-294S | 7/31/18 | <i>Phalaris arundinacea</i> | 5.80 | 30 to 75 | 3 to 4 | -87.9481 | 42.4175 |
| 436 | I-294S | 7/31/18 | <i>Phalaris arundinacea</i> | 6.30 | 30 to 60 | 3 | -87.9484 | 42.4115 |
| 437 | I-294S | 7/31/18 | <i>Phalaris arundinacea</i> | 6.4 to 6.5 | 30 to 50 | 3 | -87.9484 | 42.4099 |
| 438 | I-294S | 7/31/18 | <i>Sonchus spp</i> | | | 2 | -87.9485 | 42.4092 |
| | I-294S | | <i>Cirsium arvense</i> | | | 2 | | |
| | I-294S | | <i>Phalaris arundinacea</i> | | | | | |
| 439 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 7.6 to 8.0 | 40 to 60 | 2 to 3 | -87.9493 | 42.3927 |
| 440 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | | | | -87.9496 | 42.3875 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| 441 | I-294S | 7/31/18 | <i>Cirsium arvense</i> | 9.10 | 40 to 60 | 2 | -87.9431 | 42.3715 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 442 | I-294S | 7/31/18 | <i>Dipsacus laciniatus</i> | 9.60 | 0 to 75 | 3 | -87.9396 | 42.3644 |
| 443 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 11.5 to 12.0 | 50 to 75 | 2 to 3 | -87.9198 | 42.3412 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| 444 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.9136 | 42.3345 |
| | I-294S | | <i>Cirsium arvense</i> | | | | | |
| | I-294S | | <i>Lythrum salicaria</i> | 12.00 | 25 to 60 | 2 | | |
| 445 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 14.1 to 14.75 | 30 to 60 | 3 | -87.9042 | 42.3059 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 446 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.9030 | 42.2979 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 447 | I-294S | 8/1/18 | <i>Melilotus spp</i> | | 0 to 25 | 2 | -87.9039 | 42.2933 |
| | I-294S | | <i>Dipsacus laciniatus</i> | 15.25 | 0 to 75 | 2 | | |
| 448 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 16.1 to 17.25 | 0 to 75 | 4 to 5 | -87.9129 | 42.2788 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 449 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.9074 | 42.2661 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| | I-294S | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|------------|--------|----------------------------|---------------------------------|-------------------------------------|-----------------|----------|---------|
| 450 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 17.25 to 18.0 | 0 to 75 | 4 to 5 | -87.9017 | 42.2473 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 451 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 18.25 | 0 to 50 | 3 | -87.9018 | 42.2353 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 452 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 19.25 to 21.25 | 0 to 60 | 4 to 5 | -87.8929 | 42.2083 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| | I-294S | | <i>Melilotus spp</i> | extends to exit 21 | | | | |
| 453 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 22.10 | 0 to 50 | 3 | -87.8865 | 42.1965 |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 24.00 | 0 to 50 | 2 to 3 | -- | -- |
| -- | I-294S | | <i>Dipsacus laciniatus</i> | 24.50 | 0 to 50 | 2 | -- | -- |
| 454 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 25.25 | 25 to 60 | 3 | -87.8668 | 42.1495 |
| | Edens Spur | | <i>Cirsium arvense</i> | | | | | |
| | Edens Spur | | <i>Lythrum salicaria</i> | | | | | |
| 455 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 26.0 to 27.25 | 0 to 75 | 4 | -87.8398 | 42.1485 |
| 456 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8343 | 42.1460 |
| 457 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 27.75 | 0 to 75 | 3 to 4 | -87.8302 | 42.1445 |
| 458 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 27.8 to 28.0 | 0 to 75 | 3 | -87.8230 | 42.1445 |
| | Edens Spur | | <i>Lythrum salicaria</i> | | | | | |
| 459 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8131 | 42.1455 |
| 460 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 29.25 to 28.6 | 0 to 60 | 3 to 4 | -87.8006 | 42.1456 |
| | Edens Spur | | <i>Cirsium arvense</i> | | | | | |
| 461 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8059 | 42.1460 |
| | Edens Spur | | <i>Cirsium arvense</i> | | | | | |
| 462 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 29.25 | 25 to 60 | 4 | -87.8127 | 42.1459 |
| | Edens Spur | | <i>Cirsium arvense</i> | | | | | |
| 463 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 28.4 to 27.75, to IL 43 | 30 to 60 | 3 to 4 | -87.8190 | 42.1453 |
| 464 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8285 | 42.1446 |
| 465 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 27.25 to 27.0 | 0 to 75 | 3 | -87.8426 | 42.1496 |
| | Edens Spur | | <i>Dipsacus laciniatus</i> | 26.5 to 26.15, at toll plaza 24 | 0 to 50 | | | |
| | Edens Spur | | <i>Cirsium arvense</i> | | | | | |
| 466 | Edens Spur | 8/1/18 | <i>Dipsacus laciniatus</i> | 25.8 to 25.5 | 25 to 75 | 2 to 3 | -87.8671 | 42.1498 |
| 467 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 52.25 | 0 to 50 | 2 to 3 | -87.8796 | 42.1471 |
| 468 | I-294S | 8/1/18 | <i>Melilotus spp</i> | 52.0 to 51.3 | 0 to 75 | 3 | -87.8837 | 42.1443 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 469 | I-294S | 8/1/18 | <i>Melilotus spp</i> | | | | -87.8875 | 42.1349 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 470 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 51.10 | 25 to 50 | 2 | -87.8875 | 42.1338 |
| 471 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 50.35 | 25 to 50 | 2 | -87.8843 | 42.1216 |
| 472 | I-294S | 8/1/18 | <i>Cirsium arvense</i> | 50.25 | 15 to 75 | 2 | -87.8834 | 42.1206 |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| 473 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 50.20 | 25 to 50 | 2 | -87.8829 | 42.1201 |
| | I-294S | | <i>Melilotus spp</i> | | | | | |
| 474 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 49.50 | 25 to 60 | 2 | -87.8719 | 42.1138 |
| 475 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 49.00 | 0 to 75 | 2 | -87.8683 | 42.1070 |
| 476 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 48.5 to 48.25 | 25 to 50 | 3 | -87.8684 | 42.0974 |
| 477 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 48.0 to 46.9 | 0 to 50 | 3 | -87.8684 | 42.0937 |
| 478 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8667 | 42.0781 |
| | I-294S | | <i>Melilotus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|--------|----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 479 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 46.6 to 46.25 | 25 to 50 | 1 to 2 | -87.8671 | 42.0731 |
| 480 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8673 | 42.0703 |
| 481 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 44.35 to 45.0 | 0 to 60 | 2 to 3 | -87.8686 | 42.0550 |
| | I-294S | | <i>Melilotus spp</i> | | | | | |
| 482 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 44.75 to 44.6 | 0 to 75 | 3 | -87.8697 | 42.0502 |
| 483 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | 44.00 | 0 to 60 | 2 | -87.8704 | 42.0442 |
| 484 | I-294S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.8683 | 42.0373 |
| 485 | I-294S | 8/1/18 | <i>Melilotus spp</i> | 43.75 | 0 to 60 | 2 | -87.8663 | 42.0315 |
| 486 | I-294S | 8/1/18 | <i>Melilotus spp</i> | 43.0 to 42.75 | 0 to 60 | 2 | -87.8658 | 42.0279 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 487 | I-294S | 8/1/18 | <i>Melilotus spp</i> | | | | -87.8667 | 42.0182 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| 488 | I-294S | 8/1/18 | <i>Melilotus spp</i> | 42.75 to 42.25 | 0 to 60 | 3 | -87.8684 | 42.0146 |
| | I-294S | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-294S | | <i>Sonchus spp</i> | | | | | |
| -- | I-90W | | <i>Dipsacus laciniatus</i> | 77.80 | 0 to 60 | 2 | -- | -- |
| 489 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 74.10 | 25 to 50 | 2 | -87.9305 | 42.0162 |
| -- | I-90W | | <i>Melilotus spp</i> | 71.30 | 0 to 50 | 2 | -- | -- |
| 490 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 71.00 | 30 to 80 | 2 | -87.9821 | 42.0402 |
| 491 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 69.9 to 69.75 | 0 to 60 | 3 | -87.9942 | 42.0457 |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| 492 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0023 | 42.0495 |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| 493 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 65.50 | 0 to 60 | 2 | -88.0810 | 42.0643 |
| | I-90W | | <i>Lythrum salicaria</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| 494 | I-90W | 8/1/18 | <i>Melilotus spp</i> | 65.0 to 64.6 | 0 to 60 | 3 | -88.0897 | 42.0654 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| 495 | I-90W | 8/1/18 | <i>Melilotus spp</i> | | | | -88.0960 | 42.0661 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| 496 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 64.5 to 63.75 | 10 to 75 | 2 | -88.1001 | 42.0666 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| 497 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.1148 | 42.0668 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| 498 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 63.4 to 63.0 | 15 to 75 | 2 to 3 | -88.1222 | 42.0668 |
| 499 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.1271 | 42.0669 |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| 500 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 61.75 to 61.5 | 0 to 75 | 3 | -88.1588 | 42.0669 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|--------|--------------------------------|--------------------------|-------------------------------------|-----------------|----------|---------|
| 501 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | 61.0 to 60.5 | 0 to 60 | 2 | -88.1680 | 42.0668 |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| 502 | I-90W | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.1785 | 42.0668 |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Sonchus spp</i> | | | | | |
| 503 | I-90W | 8/1/18 | <i>Cirsium arvense</i> | 58.00 | 5 to 60 | 3 | -88.2261 | 42.0668 |
| 504 | I-90W | 8/1/18 | <i>Melilotus spp</i> | 57.80 | 0 to 50 | 3 | -88.2295 | 42.0668 |
| | I-90W | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| 505 | I-90W | 8/1/18 | <i>Carduus nutans</i> | 57.75 | 5 to 30 | 1 | -88.2307 | 42.0668 |
| 506 | I-90W | 8/1/18 | end <i>Dipsacus laciniatus</i> | to 56.75 | | 4 to 5 | -88.2509 | 42.0667 |
| | I-90W | | <i>Cirsium arvense</i> | | | | | |
| | I-90W | | <i>Melilotus spp</i> | | | | | |
| 507 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | 6.50 | 10 to 60 | 2 | -88.1380 | 41.9818 |
| 508 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | 6.6 to 6.5 | 30 to 75 | 4 | -88.1320 | 41.9853 |
| 509 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | exit 7 to 8.9 | | 4 to 5 | -88.1164 | 41.9960 |
| 510 | I390E | 8/1/18 | <i>Cirsium arvense</i> | 8.75 | 0 to 60 | 2 | -88.1009 | 41.9971 |
| | I390E | | <i>Melilotus spp</i> | | | | | |
| 511 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0900 | 41.9974 |
| 512 | I390E | 8/1/18 | <i>Cirsium arvense</i> | 9.40 | 50 to 75 | 2 | -88.0809 | 41.9944 |
| 513 | I390E | 8/1/18 | <i>Cirsium arvense</i> | 9.60 | 50 to 75 | 2 | -88.0790 | 41.9936 |
| | I390E | | <i>Dipsacus laciniatus</i> | | | | | |
| 514 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | 9.7 to 10.0 | 25 to 60 | 3 to 4 | -88.0749 | 41.9921 |
| 515 | I390E | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0700 | 41.9915 |
| 516 | I390E | 8/1/18 | <i>Melilotus spp</i> | 14.0 to 14.25 | 0 to 75 | 3 to 4 | -87.9933 | 41.9830 |
| 517 | I390E | 8/1/18 | <i>Cirsium arvense</i> | 14.75 | 25 to 100 | 4 | -87.9817 | 41.9833 |
| 518 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 33.00 | 25 to 100 | 2 to 3 | -88.0279 | 41.9572 |
| 519 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 32.4 to 30.5 | 0 to 100 | 3 to 4 | -88.0345 | 41.9520 |
| 520 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0379 | 41.9412 |
| -- | I-355S | | <i>Dipsacus laciniatus</i> | to 29.0 | 0 to 60 | 3 to 4 | -- | -- |
| 521 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 27.6 to 25.2 | 25 to 75 | 3 | -88.0382 | 41.8996 |
| 522 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0385 | 41.8686 |
| | I-355S | | <i>Sonchus spp</i> | | | | | |
| 523 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 24.75 to 24.5 | 0 to 75 | 3 | -88.0417 | 41.8605 |
| 524 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0417 | 41.8580 |
| -- | I-355S | | <i>Dipsacus laciniatus</i> | 21.90 | 25 to 100 | 4 | -- | -- |
| -- | I-355S | | <i>Lythrum salicaria</i> | 21.25 to 21.0 | 25 to 100 | 3 to 4 | -- | -- |
| | I-355S | | <i>Dipsacus laciniatus</i> | | | | | |
| 525 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 17.75 | 25 to 100 | 3 | -88.0516 | 41.7779 |
| 526 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 17.25 to 16.0 | 25 to 100 | 3 | -88.0405 | 41.7665 |
| 527 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0341 | 41.7209 |
| 528 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 13.5, to exit 12 to I-55 | 25 to 100 | 2 | -88.0302 | 41.6885 |
| -- | I-355S | | <i>Dipsacus laciniatus</i> | 11.75 to 11.5 | 25 to 100 | 3 | -- | -- |
| 529 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 11.30 | 25 to 75 | 2 | -88.0222 | 41.6607 |
| 530 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 9.4, at exit 8 | 25 to 75 | 3 | -88.0114 | 41.6313 |
| 531 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 7.1 to 6.9 | 40 to 75 | 2 to 3 | -88.0111 | 41.6261 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|--------|-----------------------------|---------------------------|-------------------------------------|-----------------|----------|---------|
| 532 | I-355S | 8/1/18 | <i>Melilotus spp</i> | 6.4 to 6.0 | 25 to 27 | 2 to 3 | -88.0126 | 41.6196 |
| | I-355S | | <i>Sonchus spp</i> | | | | | |
| | I-355S | | <i>Cirsium arvense</i> | | | | | |
| 533 | I-355S | 8/1/18 | <i>Sonchus spp</i> | 4.6 to 4.5 | 30 to 75 | 2 | -88.0098 | 41.5936 |
| 534 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 4.40 | 25 to 100 | 3 | -88.0081 | 41.5903 |
| 535 | I-355S | 8/1/18 | <i>Melilotus spp</i> | 3.90 | 0 to 75 | 2 to 3 | -88.0054 | 41.5860 |
| 536 | I-355S | 8/1/18 | <i>Melilotus spp</i> | 2.80 | 0 to 100 | 2 to 3 | -87.9962 | 41.5714 |
| 537 | I-355S | 8/1/18 | <i>Melilotus spp</i> | 2.00 | 0 to 100 | 3 | -87.9891 | 41.5604 |
| | I-355S | | <i>Sonchus spp</i> | | | | | |
| 538 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | 1.6 to 1.25, to exit 1 | 75 to 100 | 2 to 3 | -87.9857 | 41.5561 |
| 539 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.9809 | 41.5524 |
| | I-355S | | <i>Melilotus spp</i> | | | | | |
| | I-355S | | <i>Cirsium arvense</i> | | | | | |
| | I-355S | | <i>Sonchus spp</i> | | | | | |
| 540 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | .75 to .5 | 15 to 100 | 3 | -87.9728 | 41.5473 |
| 541 | I-355S | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -87.9690 | 41.5448 |
| 542 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | .15 to .35 | 20 to 100 | 3 | -87.9675 | 41.5444 |
| | I-355N | | <i>Melilotus spp</i> | | | | | |
| 543 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 1.0 to 1.5 | 25 to 100 | 3 to 4 | -87.9803 | 41.5525 |
| 544 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 1.50 | 30 to 100 | 2 | -87.9841 | 41.5552 |
| | I-355N | | <i>Sonchus spp</i> | | | | | |
| | I-355N | | <i>Cirsium arvense</i> | | | | | |
| | I-355N | | <i>Lythrum salicaria</i> | | | | | |
| 545 | I-355N | 8/1/18 | <i>Melilotus spp</i> | 2.00 | 30 to 100 | 3 | -87.9897 | 41.5621 |
| 546 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 2.40 | 50 to 75 | 2 | -87.9924 | 41.5663 |
| 547 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 2.60 | 50 to 75 | 2 | -87.9937 | 41.5683 |
| 548 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 3.60 | 50 to 75 | 2 | -88.0026 | 41.5825 |
| 549 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 3.8 to 4.5 | 30 to 100 | 4 | -88.0041 | 41.5847 |
| 550 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0093 | 41.5936 |
| 551 | I-355N | 8/1/18 | <i>Melilotus spp</i> | 5.5 to 5.75 | 0 to 75 | 3 | -88.0130 | 41.6085 |
| 552 | I-355N | 8/1/18 | <i>Melilotus spp</i> | | | | -88.0136 | 41.6118 |
| 553 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 5.90 | 50 to 75 | 2 | -88.0136 | 41.6132 |
| 554 | I-355N | 8/1/18 | <i>Phalaris arundinacea</i> | 6.6, at exit 7 | 0 to 30 | 2 | -88.0111 | 41.6242 |
| | I-355N | | <i>Lythrum salicaria</i> | | | | | |
| | I-355N | | <i>Dipsacus laciniatus</i> | | | | | |
| 555 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 6.75 to 7.4 | 25 to 200 | 4 to 5 | -88.0107 | 41.6299 |
| 556 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0118 | 41.6362 |
| 557 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 8.00 | 30 to 100 | 2 | -88.0132 | 41.6456 |
| 558 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 8.10 | 30 to 75 | 2 | -88.0139 | 41.6491 |
| 559 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 8.60 | 25 to 75 | 3 | -88.0151 | 41.6521 |
| | I-355N | | <i>Dipsacus laciniatus</i> | | | | | |
| 560 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 8.80 | 40 to 100 | 3 | -88.0228 | 41.6622 |
| | I-355N | | <i>Cirsium arvense</i> | | | | | |
| | I-355N | | <i>Lythrum salicaria</i> | | | | | |
| 561 | I-355N | 8/1/18 | <i>Cirsium arvense</i> | 11.00 | 50 to 100 | 2 | -88.0303 | 41.6849 |
| 562 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 11.6 to 12.75, to exit 13 | 0 to 100 | 3 to 4 | -88.0297 | 41.6917 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|--------|-----------------------------|----------------------------------|-------------------------------------|-----------------|----------|---------|
| 563 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | | | | -88.0299 | 41.6973 |
| | I-355N | | <i>Sonchus spp</i> | | | | | |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 15.25 | 0 to 60 | 2 to 3 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 16.00 | 0 to 60 | 2 to 3 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 16.50 | 0 to 60 | 2 to 3 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 17.30 | 0 to 60 | 2 to 3 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 17.75 to 19.0 | 0 to 60 | 4 to 5 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 19.50 | 0 to 75 | 2 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 20.25 to 20.6 | 0 to 75 | 4 to 5 | -- | -- |
| 564 | I-355N | 8/1/18 | <i>Dipsacus laciniatus</i> | 26.0 to 27.0 | 0 to 30 | 2 to 3 | -88.0358 | 41.8722 |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 27.25 | 20 to 75 | 3 | -- | -- |
| -- | I-355N | | <i>Dipsacus laciniatus</i> | 30.0 to exit 31 | 0 to 75 | 4 | -- | -- |
| 565 | I-390W | 8/1/18 | <i>Dipsacus laciniatus</i> | 10.0 to 9.5, to exit 9 | 25 to 75 | 4 | -88.0729 | 41.9922 |
| 566 | I-390W | 8/1/18 | <i>Dipsacus laciniatus</i> | 8.75 | 25 to 100 | 3 to 4 | -88.0927 | 41.9979 |
| 567 | I-390W | 8/1/18 | <i>Dipsacus laciniatus</i> | 8.5 to exit 7A | 0 to 75 | 3 | -88.0983 | 41.9977 |
| -- | I-390W | | <i>Dipsacus laciniatus</i> | 7.50 | 0 to 50 | 2 to 3 | -- | -- |
| 568 | I-390W | 8/1/18 | <i>Dipsacus laciniatus</i> | 6.40 | 0 to 50 | 2 to 3 | -88.1332 | 41.9849 |
| 569 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 116.75 to 115.75 | 20 to 75 | 3 | -88.3314 | 41.7957 |
| 570 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | 116.0, sporadic to 115.75 | 30 to 75 | 2 | -88.3453 | 41.7955 |
| 571 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | | | -88.3494 | 41.7955 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 572 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 115.75 to 115.5 | 25 to 75 | 2 to 3 | -88.3543 | 41.7954 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 573 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 115.3 to 114.8 | 25 to 50 | 4 | -88.3565 | 41.7954 |
| 574 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | | | -88.3675 | 41.7953 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| | I-88W | | <i>Phalaris arundinacea</i> | 115.00 | | | | |
| 575 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | 114.2 to 114.0, to exit 113 ramp | 25 to 50 | 2 to 3 | -88.3822 | 41.7950 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 576 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | | | -88.3855 | 41.7950 |
| | I-88W | | <i>Melilotus spp</i> | 113.25 to 12.75 | | | | |
| 577 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 12.75 | 30 to 75 | 4 to 5 | -88.4210 | 41.8015 |
| 578 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | 30 to 75 | 1 to 2 | -88.4387 | 41.8073 |
| 579 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | sporadic to 110.25 | 30 to 75 | | -88.4471 | 41.8119 |
| 580 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 110.25 to 110.0 | 15 to 75 | 3 | -88.4594 | 41.8178 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 581 | I-88W | 8/2/18 | <i>Sonchus spp</i> | 110.0 to 109.5 | 30 to 75 | 3 | -88.4594 | 41.8178 |
| | I-88W | | <i>Melilotus spp</i> | | | | | |
| 582 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | endpoint | 30 to 75 | 2 | -88.4766 | 41.8250 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 583 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | 30 to 75 | 2 | -88.4854 | 41.8334 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 584 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 107.25 to Main St | 25 to 100 | 2 | -88.4912 | 41.8392 |
| 585 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 106.75, sporadic to 106.0 | 25 to 50 | 2 | -88.5037 | 41.8483 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 586 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 106.0 to 105.8 | 25 to 50 | 2 to 3 | -88.5061 | 41.8496 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|--------|---------------------------------|----------------------------------|-------------------------------------|-----------------|----------|---------|
| 587 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | | | | -88.5193 | 41.8550 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 588 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | | | | -88.5249 | 41.8563 |
| | I-88W | | <i>Phalaris arundinacea</i> end | | | | | |
| | I-88W | | <i>begin Sonchus spp</i> | 105.25 to 105.0 | 25 to 75 | 3 | | |
| 589 | I-88W | 8/2/18 | <i>Sonchus spp</i> | | | | -88.5284 | 41.8571 |
| | I-88W | | <i>Cirsium arvense</i> | 105.00 | | | | |
| 590 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 105.0 to 104.25 | 30 to 60 | 2 to 3 | -88.5417 | 41.8601 |
| | I-88W | | <i>Sonchus spp</i> | to 184.0 | 20 to 60 | 2 | | |
| 591 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 103.75 | 30 to 60 | 2 to 3 | -88.5525 | 41.8625 |
| 592 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 103.4 to 103.25 | | 2 to 3 | -88.5574 | 41.8636 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| | I-88W | | <i>Dipsacus laciniatus</i> | | | | | |
| 593 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | 103.25 to 102.75 | 20 to 50 | 3 | -88.5638 | 41.8651 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 594 | I-88W | 8/2/18 | <i>Sonchus spp</i> | 103.25 to 102.6 | 25 to 75 | 4 | -88.5745 | 41.8674 |
| 595 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 102.50 | 30 to 60 | 2 | -88.5800 | 41.8687 |
| | I-88W | | <i>Dipsacus laciniatus</i> | 101.75 | | | | |
| 596 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 101.6 to 101.35 | 30 to 60 | 3 | -88.5907 | 41.8711 |
| 597 | I-88W | 8/2/18 | <i>Melilotus spp</i> | | | | -88.5972 | 41.8726 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Dipsacus laciniatus</i> | | | | | |
| 598 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 101.10 | 25 to 60 | 2 | -88.6033 | 41.8737 |
| | I-88W | | <i>Melilotus spp</i> | | | | | |
| 599 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 100.35 | 30 to 60 | 2 | -88.6133 | 41.8759 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 600 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 100.35 to 99.9 | 30 to 75 | 3 | -88.6203 | 41.8808 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| | I-88W | | <i>Melilotus spp</i> | | | | | |
| 601 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 99.9 to 99.75, sporadic | 30 to 75 | 2 to 3 | -88.6265 | 41.8854 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 602 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 99.6 to 99.3 | 30 to 75 | 2 to 3 | -88.6274 | 41.8860 |
| 603 | I-88W | 8/2/18 | <i>Melilotus spp</i> | | | | -88.6299 | 41.8879 |
| 604 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 98.75 | 30 to 75 | 2 | -88.6361 | 41.8925 |
| -- | I-88W | | <i>Phalaris arundinacea</i> | 98.35 | 30 to 75 | 2 | -- | -- |
| 605 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 98.25 | 40 to 75 | 3 | -88.6431 | 41.8976 |
| 606 | I-88W | 8/2/18 | <i>Melilotus spp</i> | | | | -88.6465 | 41.8997 |
| 607 | I-88W | 8/2/18 | <i>Melilotus spp</i> | 97.6 to 97.4 | 40 to 100 | 4 to 5 | -88.6534 | 41.9012 |
| 608 | I-88W | 8/2/18 | <i>Melilotus spp</i> | | | | -88.6608 | 41.9013 |
| 609 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 97.1 to 96.35, sporadic | 30 to 75 | 2 | -88.6644 | 41.9012 |
| 610 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | | | | -88.6762 | 41.9011 |
| 611 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 96.35 to Somonauk Rd | 30 to 75 | 3 | -88.6876 | 41.9010 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 612 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | from Somonauk Rd to 94.75 | 25 to 75 | 3 | -88.7845 | 41.9015 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| -- | I-88W | | <i>Cirsium arvense</i> | 0.5 mile west of oasis, to oasis | 25 to 75 | 4 to 5 | -- | -- |
| -- | I-88W | | <i>Cirsium arvense</i> | 93.0, from oasis to bridge | | | -- | -- |
| 613 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | 90.85 to 90.35 | 30 to 75 | 2 | -88.7953 | 41.9005 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 614 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 90.35 | 30 to 75 | 2 | -88.7971 | 41.9005 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|---|---------------------------------|-------------------------------------|-----------------|----------|---------|
| 615 | I-88W | 8/2/18 | <i>end Dipsacus laciniatus</i> | 90.00 | 30 to 100 | 2 | -88.8026 | 41.9004 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 616 | I-88W | 8/2/18 | <i>Carduus nutans</i> | to 89.75 | 40 to 60 | 2 | -88.8055 | 41.9004 |
| 617 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | to 89.8 | 40 to 60 | 2 to 3 | -88.8149 | 41.9003 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 618 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | to 88.75 | 40 to 60 | 2 | -88.8214 | 41.9003 |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| 619 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | | | | -88.8257 | 41.9002 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Ambrosia trifida</i> | | | | | |
| 620 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 88.75 | 40 to 60 | 1 to 2 | -88.8342 | 41.9002 |
| 621 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 88.35 to 88.15 | | 3 | -88.8364 | 41.9002 |
| | I-88W | | <i>Dipsacus laciniatus end</i> | | | | | |
| 622 | I-88W | 8/2/18 | <i>end Ambrosia trifida</i> | 87.70 | 30 to 60 | | -88.8460 | 41.9001 |
| | I-88W | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-88W | | <i>Phalaris arundinacea</i> | | | | | |
| | I-88W | | <i>Melilotus spp</i> | | | | | |
| 623 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | 87.65 | 30 to 75 | 2 | -88.8492 | 41.9001 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| 624 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | 87.55 | 30 to 75 | 3 to 4 | -88.8529 | 41.9001 |
| | I-88W | | <i>Sonchus spp</i> | | | | | |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 625 | I-88W | 8/2/18 | <i>Ambrosia trifida</i> | | | | -88.8544 | 41.9001 |
| | I-88W | | <i>Sonchus arvense</i> | | | | | |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 626 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | 40 to 75 | 3 | -88.8583 | 41.9001 |
| | I-88W | | <i>Ambrosia trifida</i> | | | | | |
| 627 | I-88W | 8/2/18 | <i>Dipsacus laciniatus</i> | | | | -88.8648 | 41.9000 |
| | I-88W | | <i>Ambrosia trifida</i> | | | | | |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 628 | I-88W | 8/2/18 | <i>Cirsium arvense</i> | | 40 to 75 | 2 | -88.8672 | 41.9000 |
| 629 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | 85.55 | 25 to 60 | 4 | -88.8878 | 41.8999 |
| 630 | I-88W | 8/2/18 | <i>Phalaris arundinacea</i> | | | | -88.8941 | 41.8999 |
| -- | I-88W | | <i>Cirsium arvense</i> | 83.50 | -- | -- | -- | -- |
| -- | I-88W | | <i>Phalaris arundinacea</i> | 82.75 | -- | -- | -- | -- |
| -- | I-88W | | <i>Melilotus spp</i> | 82.50 | -- | -- | -- | -- |
| -- | I-88W | | <i>Cirsium arvense and Phalaris arundinacea</i> | 82.00 | -- | -- | -- | -- |
| -- | I-88W | | <i>Cirsium arvense</i> | 81.80 | -- | -- | -- | -- |
| -- | I-88W | | <i>Cirsium arvense</i> | 81.5, sporadic to 81.0 | -- | -- | -- | -- |
| -- | I-88W | | <i>Cirsium arvense and Phalaris arundinacea</i> | 80.50 | -- | -- | -- | -- |
| -- | I-88W | | <i>Cirsium arvense and Phalaris arundinacea</i> | 79.5, to 500 ft before exit 78B | -- | -- | -- | -- |
| 631 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 45.75 | 0 to 75 | 2 to 3 | -89.6094 | 41.7662 |
| 632 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 48.5 to 48.6 | 25 to 75 | 2 to 3 | -89.5583 | 41.7793 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|----------------------|-------------------------------------|-----------------|----------|---------|
| 633 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 50.3 to 50.5 | 25 to 60 | 2 to 3 | -89.5286 | 41.7922 |
| 634 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 52.5 to 52.75, 53.25 | 30 to 75 | 2 to 3 | -89.4921 | 41.8081 |
| 635 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 55.5 to 55.65 | 30 to 75 | 3 | -89.4440 | 41.8239 |
| | I-88E | | <i>Melilotus spp</i> | | | 1 to 2 | | |
| | I-88E | | <i>Cirsium arvense</i> | | | 1 to 2 | | |
| 636 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | | | | -89.4411 | 41.8233 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 637 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 55.75 | 15 to 75 | 2 to 3 | -89.4390 | 41.8230 |
| 638 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 56.0, 56.75 | 25 to 60 | 2 to 3 | -89.4182 | 41.8234 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 639 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 57.65 to 57.75 | 30 to 60 | 3 | -89.4022 | 41.8226 |
| 640 | I-88E | 8/14/18 | <i>Sonchus spp</i> | | | | -89.4010 | 41.8226 |
| 641 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 57.85 | 40 to 60 | 1 to 2 | -89.3991 | 41.8225 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 642 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 58.10 | 30 to 60 | 1 to 2 | -89.3925 | 41.8226 |
| 643 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 58.9 to 59.0 | 30 to 60 | 1 to 2 | -89.3793 | 41.8226 |
| 644 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 59.3 to 59.6 | 40 to 75 | 3 | -89.3700 | 41.8226 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 645 | I-88E | 8/14/18 | <i>Sonchus spp</i> | | | | -89.3656 | 41.8226 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 646 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 59.80 | 30 to 60 | 2 to 3 | -89.3601 | 41.8226 |
| 647 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 60.80 | 40 to 60 | 1 to 2 | -89.3410 | 41.8226 |
| 648 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 59.9 to 62.25 | 40 to 75 | 3 to 4 | -89.3386 | 41.8226 |
| 649 | I-88E | 8/14/18 | <i>Sonchus spp</i> | | | | -89.3144 | 41.8226 |
| | I-88E | | <i>Ambrosia trifida</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 650 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 62.30 | 40 to 60 | 1 | -89.3123 | 41.8226 |
| 651 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 62.35 to 62.75 | 40 to 60 | 2 | -89.3118 | 41.8226 |
| 652 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 62.75 | 40 to 75 | 3 | -89.3034 | 41.8227 |
| 653 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | | | | -89.3010 | 41.8227 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 654 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 62.9 to 63.1 | 40 to 75 | 2 to 3 | -89.2976 | 41.8230 |
| -- | I-88E | | <i>Cirsium arvense</i> | 63.70 | 40 to 75 | 2 | -- | -- |
| 655 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 64.60 | 40 to 75 | 1 | -89.2730 | 41.8351 |
| | I-88E | | <i>Cirsium arvense</i> | | | 2 | | |
| 656 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 67.75 | 30 to 60 | 2 | -89.2184 | 41.8550 |
| | I-88E | | <i>Sonchus spp</i> | | | 3 | | |
| 657 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 68.15 | 30 to 60 | 3 | -89.2105 | 41.8572 |
| 658 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 68.65 to 68.75 | 30 to 60 | 2 | -89.2019 | 41.8597 |
| 659 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 69.25 | 40 to 75 | 2 | -89.1915 | 41.8626 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| 660 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 69.5 to 69.75 | 40 to 75 | 2 to 3 | -89.1852 | 41.8644 |
| 661 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | | | -89.1822 | 41.8652 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 662 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 69.80 | 30 to 60 | 2 to 3 | -89.1809 | 41.8656 |
| 663 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 70.75 to 70.9 | 30 to 75 | 2 | -89.1610 | 41.8713 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 664 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 72.5 to 73.25 | 40 to 60 | 3 | -89.1269 | 41.8826 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|---------------------------|-------------------------------------|-----------------|----------|---------|
| 665 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -89.1198 | 41.8842 |
| 666 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 74.15 | 0 to 60 | 2 | -89.1000 | 41.8888 |
| -- | I-88E | | <i>Phalaris arundinacea</i> | 74.75 | 25 to 50 | 2 | -- | -- |
| | I-88E | | <i>Ambrosia trifida</i> | | | | | |
| 667 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 75.4 to 75.75 | 40 to 75 | 2 | -89.0808 | 41.8961 |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | 76.25 | 0 to 60 | 2 to 3 | -- | -- |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| 668 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 76.75 | 0 to 60 | 2 | -89.0544 | 41.9005 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 669 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 77.00 | 25 to 75 | 2 to 3 | -89.0500 | 41.9011 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 670 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 77.70 | 30 to 100 | 2 to 3 | -89.0384 | 41.9027 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 671 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | | | -89.0327 | 41.9035 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 672 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 79.1 to 79.3 | 40 to 75 | 2 to 3 | -89.0119 | 41.9050 |
| 673 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | | | -89.0079 | 41.9051 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 674 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 79.3 to 79.75 | 30 to 75 | 3 | -89.0015 | 41.9051 |
| 675 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 79.80 | 15 to 60 | 2 | -88.9986 | 41.9052 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 676 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 80.0 to 80.75 | 20 to 60 | 2 | -88.9860 | 41.9053 |
| 677 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -88.9793 | 41.9053 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 678 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 81.00 | 25 to 60 | 2 | -88.9725 | 41.9052 |
| 679 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 81.5 to 82.0 | 25 to 75 | 2 | -88.9588 | 41.9012 |
| 680 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | | | -88.9492 | 41.8992 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 681 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 82.6 to 83.15 | 15 to 60 | 2 | -88.9451 | 41.8992 |
| 682 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -88.9326 | 41.8993 |
| 683 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | 15 to 60 | 2 | -88.9301 | 41.8993 |
| | I-88E | | <i>Phalaris arundinacea</i> | intermittent | | | | |
| 684 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 84.00 | 25 to 60 | 2 | -88.9165 | 41.8994 |
| 685 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 84.15 | 30 to 60 | 2 | -88.9149 | 41.8994 |
| -- | I-88E | | <i>Ambrosia trifida</i> | 84.25 | 30 to 60 | 2 | -- | -- |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 686 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | to Shabbona Rd toll booth | 25 to 60 | 2 to 3 | -88.8932 | 41.8995 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Ambrosia trifida</i> | | | | | |
| 687 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 87.0 to 87.6 | 40 to 60 | 2 | -88.8659 | 41.8996 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 688 | I-88E | 8/14/18 | end <i>Ambrosia trifida</i> | | | | -88.8487 | 41.8997 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Melilotus spp</i> | to University Rd | | | | |
| | I-88E | | <i>Cirsium arvense</i> | to University Rd | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|------------------------------|----------------------|-------------------------------------|-----------------|----------|---------|
| 689 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 87.75 | 40 to 60 | 2 | -88.8456 | 41.8998 |
| 690 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | 25 to 50 | 2 | -88.8236 | 41.8999 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | 1 | | |
| 691 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 89.0 to 89.1 | 25 to 60 | 2 | -88.8191 | 41.9000 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | 3 | | |
| 692 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 89.60 | 25 to 60 | 2 | -88.8092 | 41.9000 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 693 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 89.75 | 30 to 60 | 2 | -88.8052 | 41.9001 |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| 694 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 90.00 | 30 to 60 | 1 to 2 | -88.8013 | 41.9001 |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 695 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 90.20 | 40 to 75 | 2 to 3 | -88.7890 | 41.9005 |
| 696 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 92.00 | 40 to 75 | 3 | -88.7614 | 41.9036 |
| | I-88E | | <i>Carduus nutans</i> | | | 1 to 2 | | |
| 697 | I-88E | 8/14/18 | <i>Sonchus spp</i> | 93.0 to 94.0 | 25 to 75 | 3 to 4 | -88.7269 | 41.9003 |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| 698 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 94.6 to 94.75 | 30 to 75 | 3 | -88.7111 | 41.9003 |
| -- | I-88E | | <i>Cirsium arvense</i> | 94.75 | 25 to 75 | | -- | -- |
| | I-88E | | <i>Sonchus arvense</i> | | | | | |
| 699 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 95.25 | 25 to 75 | 4 | -88.6985 | 41.9005 |
| 700 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 95.6, to Somonauk Rd | 25 to 60 | 3 | -88.6921 | 41.9005 |
| 701 | I-88E | 8/14/18 | <i>Melilotus spp</i> | to 96.0 | 25 to 100 | 4 | -88.6859 | 41.9006 |
| 702 | I-88E | 8/14/18 | end <i>Melilotus spp</i> | | | | -88.6830 | 41.9006 |
| | I-88E | | start <i>Cirsium arvense</i> | 96.00 | 25 to 100 | 4 | | |
| 703 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 96.75 | 30 to 75 | 2 | -88.6712 | 41.9007 |
| 704 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 97.0 to 97.25 | 25 to 75 | 3 | -88.6650 | 41.9008 |
| 705 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 97.5 to 97.75 | 25 to 75 | 3 to 4 | -88.6618 | 41.9009 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 706 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.6580 | 41.9009 |
| 707 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 98.0 to 98.25 | 25 to 75 | 4 | -88.6529 | 41.9009 |
| 708 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.6458 | 41.8991 |
| 709 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 98.60 | 30 to 75 | 3 | -88.6433 | 41.8973 |
| 710 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 99.25 | 25 to 60 | 3 | -88.6371 | 41.8928 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 711 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.6286 | 41.8865 |
| 712 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 101.1 to 101.7 | 15 to 60 | 3 | -88.6208 | 41.8808 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 713 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.5993 | 41.8727 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 714 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.5900 | 41.8707 |
| 715 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 102.0 to 103.2 | 25 to 75 | 2 to 3 | -88.5840 | 41.8693 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| 716 | I-88E | 8/14/18 | <i>Melilotus spp</i> | | | | -88.5621 | 41.8644 |
| | I-88E | | <i>Ambrosia trifida</i> | | | | | |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|--------------------|-------------------------------------|-----------------|----------|---------|
| 717 | I-88E | 8/14/18 | <i>Ambrosia trifida</i> | 103.25 to 103.75 | 25 to 75 | 3 | -88.5517 | 41.8621 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| 718 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 104.0 to 105.0 | 25 to 50 | 3 to 4 | -88.5465 | 41.8609 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 719 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | | | | -88.5289 | 41.8568 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Ambrosia trifida</i> | | | | | |
| 720 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 105.1 to 106.3 | 30 to 75 | 4 to 5 | -88.5262 | 41.8563 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 721 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -88.5052 | 41.8487 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 722 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 106.60 | 25 to 50 | 2 to 3 | -88.5007 | 41.8463 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 723 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 107.0 to 108.5 | 25 to 75 | 4 to 5 | -88.4919 | 41.8394 |
| 724 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -88.4778 | 41.8259 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 725 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 109.60 | 25 to 75 | 3 | -88.4608 | 41.8178 |
| 726 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 110.0 to 111.0 | 25 to 60 | 2 | -88.4523 | 41.8143 |
| | I-88E | | <i>Melilotus spp</i> | | | 4 | | |
| 727 | I-88E | 8/14/18 | end <i>Melilotus spp</i> | | | | -88.4420 | 41.8087 |
| | I-88E | | <i>Phalaris arundinacea</i> | 110.75 | | | | |
| | I-88E | | <i>Sonchus spp</i> | 110.0 to 111.0 | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| 728 | I-88E | 8/14/18 | <i>Cirsium arvense</i> | 112.00 | 25 to 60 | 2 | -88.4340 | 41.8047 |
| 729 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 111.6 to 112.0 | 25 to 50 | 2 | -88.4259 | 41.8021 |
| 730 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | | | | -88.4191 | 41.8010 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 731 | I-88E | 8/14/18 | <i>Phalaris arundinacea</i> | 112.70 | 25 to 60 | 2 | -88.4062 | 41.7994 |
| 732 | I-88E | 8/14/18 | <i>Melilotus spp</i> | 112.75 to 113.25 | 25 to 75 | 4 | -88.3974 | 41.7965 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | 1 | | |
| 733 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 113.50 | 15 to 50 | 2 | -88.3822 | 41.7947 |
| 734 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 114.8 to 115.4 | 30 to 75 | 2 to 3 | -88.3675 | 41.7949 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| 735 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | | | | -88.3557 | 41.7951 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| | I-88E | | <i>Phalaris arundinacea</i> | 115.40 | | 2 | | |
| 736 | I-88E | 8/14/18 | <i>Dipsacus laciniatus</i> | 115.9 to 116.0 | 30 to 75 | 2 | -88.3492 | 41.7952 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| -- | I-88E | | <i>Melilotus spp</i> | 116.50 | | | -- | -- |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|-----------------------------|--------------------------------|-------------------------------------|-----------------|----------|---------|
| 737 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 118.4 to 118.5 | 15 to 50 | 2 | -88.2978 | 41.7974 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 738 | I-88E | 8/15/18 | <i>Cirsium arvense</i> | 119.50 | 30 to 60 | 2 | -88.2774 | 41.7986 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 739 | I-88E | 8/15/18 | <i>Phalaris arundinacea</i> | 119.60 | 30 to 60 | 2 | -88.2751 | 41.7987 |
| 740 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 119.7 to 120.0 | 30 to 60 | 3 | -88.2712 | 41.7990 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 741 | I-88E | 8/15/18 | <i>Phalaris arundinacea</i> | 120.00 | 30 to 60 | 3 | -88.2697 | 41.7991 |
| 742 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2664 | 41.7993 |
| 743 | I-88E | 8/15/18 | <i>Lythrum salicaria</i> | 120.10 | 30 to 60 | 2 | -88.2643 | 41.7994 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 744 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 120.1 to 120.25 | 30 to 75 | 2 to 3 | -88.2629 | 41.7995 |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 745 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 120.75 | 30 to 75 | 3 | -88.2529 | 41.8001 |
| 746 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2395 | 41.8009 |
| 747 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 121.45 to 121.8 | 20 to 75 | 4 | -88.2350 | 41.8011 |
| 748 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2292 | 41.8015 |
| 749 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 122.00 | 25 to 75 | 2 | -88.2212 | 41.8021 |
| 750 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 122.15 to 123.0 | 0 to 100 | 4 | -88.2119 | 41.8029 |
| 751 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1933 | 41.8043 |
| 752 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 123.25 to 124.75 | 25 to 75 | 5 | -88.1766 | 41.8057 |
| 753 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1595 | 41.8062 |
| 754 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 125.5 to 126.8 | 25 to 60 | 4 | -88.1360 | 41.8060 |
| | I-88E | | <i>Melilotus spp</i> | | 0 to 60 | | | |
| 755 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1227 | 41.8059 |
| | I-88E | | <i>Melilotus spp</i> | | | | | |
| 756 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 127.50 | 25 to 60 | 2 | -88.1047 | 41.8056 |
| 757 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 128.5 to 129.0 | 25 to 50 | 2 | -88.0955 | 41.8055 |
| | I-88E | | <i>Cirsium arvense</i> | | | | | |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| -- | I-88E | | <i>Phalaris arundinacea</i> | 129.0 to 129.5 | | | -- | -- |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | at I-355 exit on and off ramps | | | -- | -- |
| 758 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 133.0 to 133.25 | 10 to 50 | 2 to 3 | -88.0246 | 41.8207 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | 133.0 to 134.0 | 2 | | -- | -- |
| 759 | I-88E | 8/15/18 | <i>Cirsium arvense</i> | 134.1 to 134.25 | 0 to 50 | 2 | -88.0126 | 41.8328 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| 760 | I-88E | 8/15/18 | <i>Sonchus spp</i> | 135.4 to 136.3 | 15 to 50 | 3 | -87.9895 | 41.8400 |
| | I-88E | | <i>Dipsacus laciniatus</i> | | | | | |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 761 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -87.9731 | 41.8441 |
| | I-88E | | <i>Sonchus spp</i> | | | | | |
| | I-88E | | <i>Phalaris arundinacea</i> | | | | | |
| 762 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | 136.75 to 137.0 | 5 to 25 | 3 | -87.9664 | 41.8442 |

| Point | Location | Date | Species | Mile marker, Notes | Approximate distance to edge (feet) | Population size | Long. | Lat. |
|-------|----------|---------|----------------------------|------------------------------------|-------------------------------------|-----------------|----------|---------|
| 763 | I-88E | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -87.9625 | 41.8443 |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | 137.50 | -- | 2 | -- | -- |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | 138.40 | -- | 2 | -- | -- |
| -- | I-88E | | <i>Dipsacus laciniatus</i> | 138.75 | -- | 2 | -- | -- |
| -- | I-88E | | <i>Sonchus spp</i> | 139.00 | -- | 2 to 3 | -- | -- |
| -- | I-88W | | <i>Dipsacus laciniatus</i> | exit 139 on-ramp | -- | 2 | -- | -- |
| -- | I-88W | | <i>Dipsacus laciniatus</i> | 137.25 | -- | 2 | -- | -- |
| 764 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 137.0 to 134.5 | 0 to 60 | 5 | -87.9648 | 41.8447 |
| | I-88W | | <i>Lythrum salicaria</i> | | | 2 to 3 | | |
| | I-88W | | <i>Cirsium arvense</i> | | | 2 to 3 | | |
| | I-88W | | <i>Sonchus spp</i> | | | 2 to 3 | | |
| 765 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.0050 | 41.8354 |
| 766 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 134.5 to 133.5 | 5 to 75 | 3 to 4 | -88.0105 | 41.8339 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 767 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.0222 | 41.8272 |
| -- | I-88W | | <i>Dipsacus laciniatus</i> | I-355 exit | -- | -- | -- | -- |
| -- | I-88W | | <i>Dipsacus laciniatus</i> | 132.75 | -- | -- | -- | -- |
| 768 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 129.5 to 129.25 | 10 to 50 | 2 to 3 | -88.0857 | 41.8060 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 769 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.0887 | 41.8058 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 770 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 128.85 to 128.5, to exit 27 | 5 to 50 | 3 to 4 | -88.0963 | 41.8059 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 771 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1034 | 41.8060 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| 772 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1166 | 41.8063 |
| 773 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1361 | 41.8065 |
| 774 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 126.85 to 125.5 | 25 to 50 | 3 to 4 | -88.1591 | 41.8066 |
| | I-88W | | <i>Cirsium arvense</i> | | | | | |
| | I-88W | | <i>Melilotus spp</i> | to exit 125 | 0 to 25 | | | |
| 775 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.1794 | 41.8059 |
| 776 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 124.6 to 123.5 | 30 to 60 | 4 | -88.1962 | 41.8046 |
| 777 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2031 | 41.8039 |
| 778 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 123.35 to 121.65 | 25 to 100 | 3 to 4 | -88.2352 | 41.8015 |
| 779 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2555 | 41.8003 |
| 780 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 120.6 to 119.5, to Farnsworth exit | 30 to 75 | 4 | -88.2726 | 41.7993 |
| 781 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | | | | -88.2880 | 41.7984 |
| 782 | I-88W | 8/15/18 | <i>Dipsacus laciniatus</i> | 119.0 to 118.25, to toll booth 61 | 25 to 75 | 3 | -88.2998 | 41.7977 |