

Table S1. This appendix shows a detailed version of the different characteristics that were used in the original prioritization framework and each version of the SIIPA model. The prioritization systems were customized for each application to include different characteristics important to the land managers, and an individualized ranking system for each characteristic. The SIIPA model could include a variety of characteristics as long as relevant data is available in either tabular or spatial form.

| Characteristic† | Site | | | |
|--|---|--|--|--|
| | TNC Draft Weed Management Plan | Disney Wilderness Preserve | Apalachicola National Forest | Heartland CISMA |
| Impacts of Species | Species that alter ecosystem processes | EDRR | EDRR | CISMA EDRR Species |
| | Species that outcompete natives and dominate otherwise undisturbed native communities | Locally Important Species | Locally Important Species | IFAS Assessment = Invasive, Prohibited or Invasive (No Uses) in Central Region |
| | Species that do not outcompete dominant natives but have a negative impact | FLEPPC Category 1 (and not in a higher ranking) | FLEPPC Category 1 (and not in a higher ranking) | CISMA Priority Control Species |
| | — | FLEPPC Category 2 (and not in a higher ranking) | FLEPPC Category 2 (and not in a higher ranking) | FLEPPC Category 1 (and not in a higher ranking) |
| | — | Species of Concern (not listed but could be a problem; watching) | Species of Concern (not listed but could be a problem; watching) | FLEPPC Category 2 (and not in a higher ranking) |
| | — | — | — | Species of Concern (not listed but could be a problem; watching) |
| | — | — | — | Non-native IFAS Assessment = OK in Central Region |
| Extent/Number of Populations of Each Species | Species not yet on the site but which are present nearby | Infested acreage equals 0 hectares | Infested acreage equals 0 hectares | Lowest total of populations |
| | Species present as new populations or outliers of larger infestation | Infested acreage is between 0 and 0.028 hectares | Infested acreage is between 0 and 0.101 hectares | Medium-low number of populations |
| | Species present in large infestations that continue to expand | Infested acreage is between 0.028 and 0.105 hectares | Infested acreage is between 0.101 and 0.809 hectares | Medium number of populations |
| | Species present in large infestations that are not expanding | Infested acreage is greater than 0.105 hectares | Infested acreage is greater than 0.809 hectares | Medium-high number of populations Highest number of populations |
| | — | — | — | — |

| Characteristic† | Site | | | |
|--------------------------------------|--|---|--|---|
| | TNC Draft Weed Management Plan | Disney Wilderness Preserve | Apalachicola National Forest | Heartland CISMA |
| Available Control Methods | Species likely to be controlled or eliminated | Species likely to be controlled or eliminated | Species likely to be controlled or eliminated | Control recommendations listed on the Center for Aquatic and Invasive Species Website |
| | Species likely to be controlled but will not be replace by desirable natives | Species likely to be controlled but will not be replace by desirable natives | Species likely to be controlled but will not be replace by desirable natives | Control recommendations NOT listed on the Center for Aquatic and Invasive Species Website |
| | Species difficult to control | Species difficult to control | Species difficult to control | Need More Information/Species NOT listed on Center for Aquatic and Invasive Species Website |
| | Species unlikely to be control | Species unlikely to be control | Species unlikely to be control | — |
| | — | Species that do not have known control methods | Species that do not have known control methods | — |
| Habitat/Proximity to Protected Areas | The most highly valued habitats or areas of the site | Habitats that have minimal past disturbance and the ecological processes have been restored for several years | Excellent quality, old growth | In a protected area |
| | Less highly valued portions of the site | Habitats that are restored but had been very disturbed | Good quality, near old growth/mature | Within 0.4 km of a protected area |
| | — | Habitats where the natural processes have been somewhat disrupted | Fair quality | Greater than 0.4 km from a protected area |
| | — | Habitats that are highly disturbed or altered | Poor quality | — |
| | — | — | Very poor quality | — |
| | — | — | Outside of habitat quality monitoring areas | — |

| | | | | |
|--------------------------------|---|---|--|--|
| Proximity to Protected Species | — | — | Population occurs within 0.400 km of a protected plant species Population occurs greater than 0.400 km from a protected plant species | Population occurs within 0.400 km of a protected plant species Population occurs greater than 0.400 km from a protected plant species |
|--------------------------------|---|---|--|--|

| Characteristic† | Site | | | |
|--------------------|--------------------------------|----------------------------|---|---|
| | TNC Draft Weed Management Plan | Disney Wilderness Preserve | Apalachicola National Forest | Heartland CISMA |
| Vectors | — | — | — | Highest number of land uses (recreation types, logging, grazing, waterways, etc.) |
| | — | — | — | Medium number of land uses |
| | — | — | — | Low number of land uses |
| | — | — | — | Population occurs in agricultural land or waterways within 0.400 km of protected area |
| | — | — | — | Population occurs greater than 0.400 km from protected area |
| Proximity to Roads | — | — | Population occurs within 30.480 m of a road | — |
| | — | — | Population occurs greater than 30.480 m from a road | — |

† Classes for each characteristics are listed in order of highest to lowest priority.