

**ITEM 310R, 312R, 314R, 316R NONNATIVE INVASIVE PLANTS**

Identify and code the occurrence of up to four nonnative invasive plants listed below that are found on any accessible forest portion of the subplot. Do not record on nonforest conditions.

If more than four plants are found on a subplot, code in order of most cover to least. Stop at four species per subplot. If five species are found on subplot 1, record only four species, even if subplot 2 has none.

The species below are known to cause ecological problems. All are displacing native forest communities. The impact of invasive species is locally well known, but their abundance, regional impact, range and rate of spread in the environment are not well known. Nomenclature follows USDA NRCS PLANTS National Database (<http://plants.usda.gov/>). The most common synonyms are in parentheses.

The first digit of the code identifies the lifeform of the species in question:

0=tree	4=grass
2=shrub	5=fern
3=vine	6=forbs, herbs, and other nonwoody species.

When collected: All subplots with at least one accessible forest land condition present on subplot (SUBPLOT STATUS = 1 or 9)

Field width: 4 digits

Tolerance: no errors

MQO: At least 90% of the time

Values: see below; use 0000 for none

Southern Region Nonnative Invasive Plants Choose up to four species from this list before recording species off of any applicable state species list. Species with an asterisk (\*) have been recommended as prohibited from introduction on National Forest land.

CODE	COMMON NAME	SCIENTIFIC NAME
TREES		
0341	Tree-of-heaven	<u>Ailanthus altissima</u> *
0345	Silktree, Mimosa	<u>Albizia julibrissin</u> *
0712	Princess tree, Royal Paulownia	<u>Paulownia tomentosa</u> *
0993	Chinaberry	<u>Melia azederach</u>
0994	Tallowtree, Popcorn tree	<u>Tiarella cordifolia</u> <i>(Saururus chinensis)</i> *
0997	Russian Olive	<u>Elaeagnus angustifolia</u>
SHRUBS		
2037	Silverthorn, Thorny Olive	<u>Elaeagnus pungens</u>
2038	Autumn olive	<u>Elaeagnus umbellata</u>
2042	Winged Burning Bush	<u>Euonymus alata</u>
2103	Chinese/European privet	<u>Ligustrum sinense</u> * / <u>L. vulgare</u>
2104	Japanese/glossy privet	<u>Ligustrum japonicum</u> * / <u>L. lucidum</u>
2105	Bush honeysuckles	<u>Lonicera spp.</u> *
2113	Sacred bamboo, Nandina	<u>Nandina domestica</u>
2160	Nonnative roses	<u>Rosa spp.</u>
VINES		
3026	Oriental or Asian bittersweet	<u>Celastrus orbiculatus</u>
3030	Nonnative climbing yams – air yam/chinese yam	<u>Dioscorea bulbifera</u> * / <u>D. oppositifolia</u>
3042	Wintercreeper	<u>Euonymus fortunei</u>
3071	English ivy	<u>Hedera helix</u>
3101	Japanese honeysuckle	<u>Lonicera japonica</u> *
3123	Kudzu	<u>Pueraria montana</u> var. <u>lobata</u> <i>(Pueraria lobata)</i> *
3211	Nonnative Vincas, Periwinkles	<u>Vinca minor</u> / <u>V. major</u>
3251	Chinese/Japanese wisteria	<u>Wisteria sinensis</u> * / <u>W. floribunda</u>
GRASSES		
4008	Giant reed	<u>Arundo donax</u>
4051	Tall fescue	<u>Lolium arundinaceum</u> *
4055	Copongrass	<u>Imperata cylindrica</u> *
4080	Nepalese brown top	<u>Microstegium vimineum</u> *
4085	Chinese silvergrass	<u>Miscanthus sinensis</u> *
4130	Nonnative bamboos	<u>Phyllostachys spp.</u> <u>Bambusa spp.</u>
FERNs		
5171	Japanese climbing fern	<u>Lygodium japonicum</u> *
FORBS/HERBS/OTHER HERBACEOUS		
6002	Garlic mustard	<u>Alliaria officinata</u> *
6052	Shrubby lespedeza	<u>Lespedeza bicolor</u>
6053	Chinese lespedeza	<u>Lespedeza cuneata</u> *
6095	Tropical soda apple	<u>Solanum viarum</u> *

#### Florida Nonnative Invasive Plants

The following nonnative invasive plants are only tallied in Florida. Use this list only after first exhausting the regional list to record four plants per subplot. For example: If there are no nonnative species from the regional list above on the subplot, then up to four species from the Florida list can be recorded.

CODE	COMMON NAME	SCIENTIFIC NAME
TREES		
FL02	Australian pine	<u>Casuarina equisetifolia</u>
FL03	Camphor tree	<u>Cinnamomum camphora</u>
FL04	Carrotwood	<u>Cupaniopsis anacardoides</u>
FL06	Melaleuca	<u>Melaleuca quinquenervia</u>
FL08	Schefflera	<u>Schefflera actinophylla</u>
FL09	Java plum	<u>Syzygium cumini</u>
SUBSHRUBS		
FL11	Coral ardisia	<u>Ardisia crenata</u>
FL15	Lantana	<u>Lantana camara</u>
SHRUBS		
FL22	Surinam cherry	<u>Eugenia uniflora</u>
FL26	Common guava	<u>Psidium guajava</u>
FL27	Downy rose myrtle	<u>Rhodomyrtus tomentosa</u>
FL28	Brazilian pepper	<u>Schinus terebinthifolius</u>
FL29	Wetland nightshade	<u>Solanum lycopersicum</u>
VINES		
FL31	Rosary pea	<u>Abrus precatorius</u>
FL35	Cat's-claw vine	<u>Mucuna urens</u> cali
FL37	Skunk vine	<u>Pasiflora foetida</u>
GRASSES		
FL46	Napier grass	<u>Pennisetum purpureum</u>
FERNs		
FL54	Old World Climbing fern	<u>Cnidoscolus microphyllum</u>
FL56	Sword fern	<u>Nephrolepis cordifolia</u>
FORBS/HERBS/OTHER HERBACEOUS		
FL64	Hairy indigo	<u>Indigofera hirsuta</u>

**ITEM 311R, 313R, 315R, 317R NONNATIVE INVASIVE PERCENT COVERAGE**

Record the code that best describes the abundance of each nonnative invasive plant recorded on the subplot.

Rate winter vegetation as if it were in a "leaf-on" condition.

One percent cover of the 24-foot radius subplot is equivalent to a square 4.2 feet on each side, or a circle with a radius of 2.4 feet. Ten percent cover is equivalent to a square 13.4 feet on each side, or a circle with a radius of 7.6 feet.

Only record the coverage on the forested portion of the subplot. For example, 70% of a subplot is nonforest and 30% is forested. If the entire subplot was covered by kudzu, then the NONNATIVE INVASIVE PLANT PERCENT COVERAGE is code 3 (11-50% coverage) for 30%.

When collected: NONNATIVE INVASIVE PLANTS > 0000

Field width: 1 digit

Tolerance: no errors

MQO: At least 90% of the time

Values:

- 1 Trace < 01%
- 2 01-10%
- 3 11-50%
- 4 51-90%
- 5 91-100%