

Table 8b: Cooper Island Study Area - Baseline Study Data Summary;
JRPS Habitat Restoration Project (Phase 1) - Invasive Plant Management Plan

Lead Data Collection Team: James River Outdoor Coalition (Posner, Caseman, Moulton, and Lyon)
 Support Data Collection Teams: James River Park System (Nathan Burrell)
 Date of Fieldwork August 23, 2015
 Total Time in Field: 8 hours



Functional Guild	Scientific Name	Common Name	Family	DCR Rank*	Suggested Treatment***	Management Unit**		
						1	2	3
Trees	Acer platanoides L.	Norway Maple	Aceraceae	M	na			
	Ailanthus altissima (P. Mill.) Swingle	Tree of Heaven	Simaroubaceae	H	TBD	1	1	2
	Albizia julibrissin Durazz.	Mimosa	Fabaceae	M	TBD	3	3	2
	Melia azedarach L.	Chinaberrytree	Meliaceae	L	na			
	Morus alba L.	White Mulberry	Moraceae	L	na			
	Paulownia tomentosa (Thunb.) Sieb. & Zucc. ex Steud.	Princesstree	Scrophulariaceae	M	TBD			2
	Pyrus calleryana Dcne.	Bradford Pear	Rosaceae	M	na			
Shrubs	Berberis thunbergii DC.	Japanese Barberry	Berberidaceae	M	na			
	Elaeagnus umbellata Thunb.	Autumn Olive	Elaeagnaceae	H	na			
	Euonymus alatus (Thunb.) Sieb.	Burningbush	Celastraceae	H	na			
	Ligustrum sinense Lour.	Marsh Dewflower	Oleaceae	H	TBD	1	2	
	Lonicera maackii (Rupr.) Maximowicz	Amur Honeysuckle	Brassicaceae	H	TBD	4	3	
	Rosa multiflora Thunb. ex Murr.	Multiflora Rose	Rosaceae	H	na			
Herbs/Grasses	Alliaria petiolata (Bieb.) Cavara & Grande	Garlic Mustard	Brassicaceae	H	na			
	Centaurea stoebe L. ssp. micranthos (S.G. Gmelin ex Gule)	Spotted Knapweed	Asteraceae	H	na			
	Cirsium vulgare (Savi) Ten.	Bull Thistle	Asteraceae	M	na			
	Commelina communis L.	Asiatic dayflower	Commelinaceae	L	TBD	1	1	1
	Hydrilla verticillata (L. f.) Royle	Hydrilla	Hydrocharitaceae	H	TBD	3	3	3
	Iris pseudacorus L.	Paleyellow Iris	Iridaceae	H	na			
	Lespedeza cuneata (Dum.-Cours.) G. Don	Chinese Lespedeza	Fabaceae	H	TBD	2	2	
	Lysimachia nummularia L.	Moneywort	Primulaceae	H	na			
	Murdannia keisak (Hassk.) Hand.-Maz.	Marsh Dewflower	Commelinaceae	H	na			
	Persicaria longiseta (de Bruyn) Moldenke	Lady's Thumb	Polygonaceae	H	TBD			1
	Phyllostachys aurea Carr. ex A. & C. Rivière	Golden Bamboo	Poaceae	H	na			
	Reynoutria japonica Houtt.	Japanese Knotweed	Polygonaceae	M	na			
	Rumex acetosella L.	Common Sheep Sorrel	Polygonaceae	H	na			
	Rumex crispus L.	Curly Dock	Polygonaceae	M	na			
	Securigera varia (L.) Lassen	Crownvetch	Fabaceae	L	na			
	Stellaria media (L.) Vill.	Common Chickweed	Caryophyllaceae	H	na			
	Urtica dioica L.	Stinging Nettle	Urticaceae	M	na			
	Arthraxon hispidus (Thunb.) Makino	Small Carpggrass	Poaceae	M	na			
	Microstegium vimineum (Trin.) A. Camus	Japanese Stiltgrass	Poaceae	H	na			
	Sorghum halepense (L.) Pers.	Johnsongrass	Poaceae	H	na			
Vines	Ampelopsis brevipedunculata (Maxim.) Trautv.	Amur Peppervine	Vitaceae	H	na			
	Celastrus orbiculata Thunb. [orthographic variant]	Oriental Bittersweet	Celastraceae	H	TBD	4	4	
	Dioscorea polystachya Turczaninow	Cinnamon Vine	Poaceae	H	na			
	Euonymus fortunei (Turcz.) Hand.-Maz.	Winter Creeper	Celastraceae	M	TBD	1		
	Glechoma hederacea L.	Ground Ivy	Lamiaceae	M	na			
	Hedera helix L.	English Ivy	Araliaceae	M	na			
	Humulus japonicus Sieb. & Zucc.	Japanese Hop	Cannabaceae	M	TBD	1		
	Lonicera japonica Thunb.	Japanese Honeysuckle	Caprifoliaceae	H	TBD	1	2	
	Pueraria montana (Lour.) Merr.	Kudzu	Fabaceae	H	na			
	Vinca major L.	Bigleaf Periwinkle	Apocynaceae	L	na			
	Vinca minor L.	Common Periwinkle	Apocynaceae	L	na			
	Wisteria sinensis (Sims) DC.	Chinese Wisteria	Fabaceae	M	na			
Cover Class for Trees:						3	3	2+
Cover Class for Shrubs:						4	3	\
Cover Class for Herbs:						3	3	3
Cover Class for Vines:						4	4	\
OVERALL COVER CLASS:						4+	4	3

*Virginia Department of Conservation and Recreation Invasiveness Ranking: H = High Invasiveness; M = Medium Invasiveness; L = Low Invasiveness

**Management Units Assessed Using Modified Braun-Blanquet Cover Scale: 1 = 0-5% (B;LUE); 2 = 5-20% (GREEN); 3 = 20-50% (YELLOW); 4 = 50-75% (ORANGE); 5 = 75-100% (RED)

***Treatment practices based on Miller 2003 and JRPS Park Superintendent

Treatment Category***	Treatment Description***
A	Hand Removal: Removal of plant material from the soil in environmentally sensitive areas.
B	Goat Herd Management: Rotating herds to remove dense cover and combo treatments.
C	Mow-Treat Method: Application of herbicide-water mixtures to cut/damaged stems or foliage.
D	Cut-Treat Method: Application of herbicide-water mixtures to freshly cut stumps.
E	Basal Spray: Applications of herbicide-oil-penetrant mixture daubed onto lower stems.
F	Stem Injection: Applications of appropriate herbicide directly into tree stems.
G	Prescribed Burning: Drip torching and other methods utilizing experienced professionals.
H	Directed Foliar Spray: Application to leaves with herbicide-water-surfactant mixture.