

Table 5: Pony Pasture/The Wetlands Study Area - Baseline Study Data Summary;

JRPS Habitat Restoration Project (Phase 1) - Invasive Plant Management Plan

Lead Data Collection Team: Virginia Master Naturalists (Greenleaf, Gianfortoni, Shigley, Roberts, Hartley, Stephens)

Support Data Collection Team: VHB (C. Senfield)

Date of Fieldwork: August 1, 2015

Total Time in Field: 31.5 hours



Functional Guild	Scientific Name	Common Name	Family	DCR Rank*	Suggested Treatment***	Management Unit**						
						1	2	3	4	5a	5b	
Trees	Acer platanoides L.	Norway Maple	Aceraceae	M	TBD				1			
	Ailanthus altissima (P. Mill.) Swingle	Tree of Heaven	Simaroubaceae	H	TBD	1		1				1
	Albizia julibrissin Durazz.	Silktree	Fabaceae	M	TBD	1	1	1		1		
	Melia azedarach L.	Chinaberrytree	Meliaceae	L	na							
	Morus alba L.	White Mulberry	Moraceae	L	TBD	1	1					
	Paulownia tomentosa (Thunb.) Sieb. & Zucc. ex Steud.	Princesstree	Scrophulariaceae	M	na							
Shrubs	Pyrus calleryana Dcne.	Bradford Pear	Rosaceae	M	na							
	Berberis thunbergii DC.	Japanese Barberry	Berberidaceae	M	na							
	Elaeagnus umbellata Thunb.	Autumn Olive	Elaeagnaceae	H	TBD				1			
	Euonymus alatus (Thunb.) Sieb.	Burningbush	Celastraceae	H	na							
	Ligustrum sinense Lour.	Chinese Privet	Oleaceae	H	TBD	2	1+	3	3-	3	2+	
	Lonicera maackii (Rupr.) Maximowicz	Amur Honeysuckle	Brassicaceae	H	TBD	5	4	4+	4	4	3	
Herbs/Grasses	Rosa multiflora Thunb. ex Murr.	Multiflora Rose	Rosaceae	H	TBD	2	2	3	2			
	Alliaria petiolata (Bieb.) Cavara & Grande	Garlic Mustard	Brassicaceae	H	TBD	2+						
	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	2	1	1	1			
	Hydrilla verticillata (L. f.) Royle	Hydrilla	Hydrocharitaceae	H	na							
	Iris pseudacorus L.	Paleyellow Iris	Iridaceae	H	na							
	Lespedeza cuneata (Dum.-Cours.) G. Don	Chinese Lespedeza	Fabaceae	H	TBD		1					1
	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	TBD			1				
	Arthraxon hispidus (Thunb.) Makino	Small Carpgrass	Poaceae	M	na							
	Microstegium vimineum (Trin.) A. Camus	Japanese Stiltgrass	Poaceae	H	TBD	2	2-	2+	1	2+	2	
	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	na							
	Dioscorea polystachya Turczaninow	Cinnamon Vine	Poaceae	H	TBD	1		2+		1		
	Euonymus fortunei (Turcz.) Hand.-Maz.	Winter Creeper	Celastraceae	M	TBD	5	4+	5	5-	5	2	
	Glechoma hederacea L.	Ground Ivy	Lamiaceae	M	TBD	3+	2+	3	3	3	2	
	Hedera helix L.	English Ivy	Araliaceae	M	TBD	3	1	3	5-	4+	3	
	Humulus japonicus Sieb. & Zucc.	Japanese Hop	Cannabaceae	M	TBD						2	
	Lonicera japonica Thunb.	Japanese Honeysuckle	Caprifoliaceae	H	TBD	3	1	2		3+		
	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	TBD				1			
Cover Class for Trees:						1	1	1	1	1	1	1
Cover Class for Shrubs:						5	4+	5	5	4	3	
Cover Class for Herbs:						2+	2	2	2	2	2	
Cover Class for Vines:						5	4+	5	5	5	3	
OVERALL COVER CLASS:						5	4+	5	5	5	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% (BLUE); 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.