NATURAL COMMUNITY SURVEY PART I: RECONNAISSANCE Maine Natural Areas Program

IDENTIFIERS / LOCATION

Survey area: SVP-1			Date: 31 AUG 99
(Site name:)		(Quadcode:)	Airphoto (#, scale, date):
Surveyors: AH KK	Town: PITTSFIELD County: BERKSHIRE (Biophysical Region:)	USGS 7.5' Quad: PITTSFIELD EAST (1:25,000)	

Mark all observation points on a copy of the topo. Add any comments or sketches here if necessary to clarify the topo.	Directions (if not obvious from topo or Maine Atlas): Off end of Brunswick Road, travel west along trail (along top of berm) for ca. 60 meters to vernal pool on left (at base of berm).

VEGETATION / HABITAT

Observation Point 1	Observation Point 2	Observation Point 3
Community type: FLOODPLAIN FOREST	Community type:	Community type:
Soil: Alluvial Silt-loam	Soil:	Soil:
Slope, aspect, topography: 0-30° Relatively flat except berm	Slope, aspect, topography:	Slope, aspect, topography:
STRATA*: cover & 1-2 dominant spp. for each	STRATA*: cover & 1-2 dominant spp. for each	STRATA*: cover & 1-2 dominant spp. for each
Tree layer: Total cover (%): 80 Acer saccharum Prunus serotina Ulmus americana	Tree layer: Total cover (%):	Tree layer: Total cover (%):
Sapling / tall shrub layer: Total cover (%): 25 Ulmus americana Acer saccharum	Sapling / tall shrub layer: Total cover (%)	Sapling / tall shrub layer: Total cover (%)
Shrub (1-2 m) layer: Total cover (%): 30 Lonicera morrowii Berberis thunbergii Cornus amomum	Shrub (1-2 m) layer: Total cover (%)	Shrub (1-2 m) layer: Total cover (%)
Herb layer: Total cover (%): 60 Solidago flexicaulis Onoclea sensibilis Maianthemum racemosum	Herb layer: Total cover (%)	Herb layer: Total cover (%)
Bryoid layer: Total cover (%) Essentially None	Bryoid layer: Total cover (%)	Bryoid layer: Total cover (%)
Other diagnostic or notable species: Aegipodium podagraria	Other diagnostic or notable species:	Other diagnostic or notable species:
Condition / evidence of human use: Trail and power line right-of-ways	Condition / evidence of human use:	Condition / evidence of human use:
Additional data collected / COMMENTS plots (size)? 5-64 m tree cores? Yes photos? yes	Additional data collected / COMMENTS plots (size)? tree cores? photos?	Additional data collected / COMMENTS plots (size)? tree cores? photos?

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Observation Point 4	Observation Point 5	Observation Point 6
Community type:	Community type:	Community type:
Soil:	Soil:	Soil:
Slope, aspect, topography:	Slope, aspect, topography:	Slope, aspect, topography:
STRATA*: cover & 1-2 dominant spp. for each	STRATA*: cover & 1-2 dominant spp. for each	STRATA*: cover & 1-2 dominant spp. for each
Tree layer: Total cover (%):_____	Tree layer: Total cover (%):_____	Tree layer: Total cover (%):_____
Sapling / tall shrub layer: Total cover (%)_____	Sapling / tall shrub layer: Total cover (%)_____	Sapling / tall shrub layer: Total cover (%)_____
Shrub (1-2 m) layer: Total cover (%)_____	Shrub (1-2 m) layer: Total cover (%)_____	Shrub (1-2 m) layer: Total cover (%)_____
Herb layer: Total cover (%)_____	Herb layer: Total cover (%)_____	Herb layer: Total cover (%)_____
Bryoid layer: Total cover (%)_____	Bryoid layer: Total cover (%)_____	Bryoid layer: Total cover (%)_____
Other diagnostic or notable species:	Other diagnostic or notable species:	Other diagnostic or notable species:
Condition / evidence of human use:	Condition / evidence of human use:	Condition / evidence of human use:
Additional data collected / COMMENTS plots (size)? tree cores? photos?	Additional data collected / COMMENTS plots (size)? tree cores? photos?	Additional data collected / COMMENTS plots (size)? tree cores? photos?

*STRATA are defined as:

TREE = canopy (if emergents present, note as "E");
SAPLING / TALL SHRUB = > 2 m tall and < 5 cm dbh: woody plants not forming tree canopy but > 2 m tall;
SHRUB = 1 - 2 m: woody plants 1 - 2 m tall;
HERB = < 1 m: all herbaceous vascular plants plus any woody plants < 1 m tall;
BRYOID = all ground-layer non-vascular plants.

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NATURAL COMMUNITY SURVEY PART II: DESCRIPTION

-> complete separate description forms for **each** notable natural community on reconnaissance page.

IDENTIFIERS / LOCATION

Area (specific/general): SVP-1			Obs. Pt. # 1
Community type: Floodplain Forest			Adjacent communities: Mesic Northern Hardwood Forest
Quad:	~~(Lat.:)~~ northing 4699150	Size (acres) of community, EO (not site):	**BE SURE TO MAP EXTENT OF COMMUNITY ON TOPO.** Distinguish between portions ground-truthed vs. portions presumed to be part of community based solely on photo/map interpretation, where applicable.
(Quadcode:)	~~(Long.:)~~ easting 0643990		

CLASSIFICATION HIERARCHY

Physiognomy (Class)	Phenology (Subclass)	Leaf type (Group)
(forest)	evergreen woody	(broad-leaf woody)
woodland	(deciduous woody)	needle-leaf woody
shrubland	mixed woody	graminoid
dwarf shrubland	perennial	forb
herbaceous	annual	pteridophyte
sparse vascular/nonvascular		non-vascular

(ALLIANCE:)

ADDITIONAL DATA FOR FORESTS

Tree canopy height:	Core data: ring counts (~ 5 cores) of larger trees (give sp. & dbh)	Deadwood (describe distribution, abundance, degree of decay):	Shrub thicket immediately north of pool
supercanopy trees? No	① Ulmus americana 11 inch dbh, 84 feet high, 50 ybp ② Prunus serotina 13 dbh, 70 height, 40 ybp ③ Tilia americana 17 dbh, 70 height, ybp	Fairly scarce, mostly smaller branches (<10cm)	Cornus ammomum * majority of woody stems. V. dense Acer negundo Vittus riparia - climbing box elder

HISTORY (describe evidence or lack thereof; please do not leave boxes blank. Indicate approximately how recent where possible.)

Fire:	Wind:	Cutting:	Agriculture:	Impoundment:
No	No	No	No	No

comment: Powerline right-of-way adjacent to community. Relatively young forest.

ADDITIONAL SPECIES LIST

List additional plant species in community not included in the plot data that follows.

Mimulus ringens - VP
Carex stipata VP
Boehmeria cylindrica - VP
Peltandra sagittata - VP
Impatiens capensis - VP
Urtica dioica - VP

Claytonia caroliniana } observed in spring
Erythronium americanum
Osmorrhiza claytonii
Carex cephaloidea
Ligostrum vulgare
Aster schruberi
Maianthemum racemosum
Berberis thunbergeri
Echinocystis lobata
Smilax herbacea
Platanus occidentalis

Symphoricarpos latifolium
Rhamnus cathartica
Geum canadense
Aegipodium podagraria
Arisaema trifolium
Allium tricoccum
Aralia nudicaulis
Persicaria virginiana
Ulmus virginiana
Betula papyrifera
Fraxinus americana

Species list sketchy or basically complete?
Comment: Moderate survey effort

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VEGETATION PLOT DATA

Area: EVP-1 | Obs. pt. #:

Community type: Floodplain Forest | (Regional alliance/community:)

LAYER	plot # 1A (KRNM POL)	1B	1C	1D
TREE list species and dbh for all trees >= 5 cm dbh; count standing dead as 1 species. note units: QUAD SIZE: note which size used 5.64 m radius for 1/100th ha 7.98 m radius for 2/100th ha use same size throughout!	NONE	Acer platinoides 19 Tilia americana 17.	Prunus serotina 12 Quercus rubra 18 Acer saccharum 12	NONE
SAPLING / TALL SHRUB cover class by species of: trees > 2 m tall but < 5 cm dbh; and shrubs > 2 m tall QUAD SIZE: 2.8 m radius or 25 m²	NONE	None	Acer saccharum 19 Cornus alternifolia 3 Ulmus americana 3 Cornus ammomum 3	NONE
SHRUB cover class* by species of shrubs/trees 1 - 2 m tall. QUAD SIZE: 2.8 m radius or 25 m²	NONE	None	Lonicera morrowii 37 Euonymus alatus 1	Cornus ammomum 3 Vitis riparia 1
HERB cover class* by species for all herbaceous plants plus any woodies < 1 m tall QUAD SIZE: 1 m², 2-4 herb quads per tree plot. Enter individual values in left-hand column and average in right-hand column. Remember the zeros for spp present in some but not all herb quads when figuring averages!	(1) Scirpus cyperinus 37 Sium suave 3 Penthorum sedoides 9 Persicaria punctata 19 Lythrum salicaria 3 Ludwigia palustris 3 (2) Sium suave 9 Scirpus cyperinus 19 Leersia oryzoides 19 Persicaria hydropiper 3 Galium palustre 1 Penthorum sedoides 3 Juncus tribuleus 3	(1) Onoclea sensibilis 37 Athyrium filix-femina 19 Symphyotrichum lateriflorum 3 Cinna latifolia 1 Carex radiata 37 (2) Athyrium f.-f. 37 Carex radiata 1 Ranus cathartica 1 Mentheum race. 1 Fraxinus americanus 1 Epipactus helleborine 1	(1) Solidago flexicaulis 37 Aster ericoides 3 (2) Solidago flexicaulis 37 Circaea lutetiana 3 Symphyotrichum cordifolium 1 Athyrium filix-femina 3 Carex sprengelii 3	(1) Matteuccia struthiopteris 19 Persicaria sagittata 9 Boehmeria cylindrica 9 Onoclea sensibilis 19 Impatiens capensis 1 (2) Matt. struthiopteris 37 Onoclea sensibilis 37 Persicaria virginiana 1
BRYOID ground-layer mosses, liverwort, lichens in herb quads. resolution (check one): ✓ "moss"/"liverwort"/"lichen" only; __identified to major group; __identified to genus; __identified to species.	(1) Moss 19 (2) Moss 37	(1) Moss Restricted to downed woody material 3 (2) None	(1) None (2) None	(1) ABSENT (2) ABSENT
REMARKS			On berm, trail passes through	

In box on previous page, list plant spp. present in the community but not in the sample plots so we have a complete species list.

* cover classes (record midpoint): < 2 1 2-5% 3 6-12% 9 13-24% 19 25-49% 37 50-74% 63 75-100% 87

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TOPOGRAPHY / SOILS

Area: SVP-1 | Obs. pt. #: 1

Community type: Floodplain Forest | (Regional alliance/community:)

Elevation:	Aspect:	Slope:	Microtopography:
294 meters	magnetic or true?	0-5° up to 30° at edge of terrace/berm measured or estimated?	Relatively flat w/ large depressions (vernal pools)

pH	Topographic position:			Habitat patchiness (describe zones or patches if present):
(note kit or meter type)	P low plain, level T toe of slope LS lower slope MS middle slope	TB hillside terrace/bench US upper slope E cliff/ledge	C crest M high plateau N narrow valley D drainage channel	

Mineral Soil Profile:

horizon	depth (cm)	color	mottling	other
O				
A				
E				
B				
C				

Organic Soil Profile:

peat depth:_____cm OR > 1 m_____

vonPost decomposition:_____

ALL SOILS:

DEPTH TO WATER TABLE:_____

DEPTH to OBSTRUCTION:_____

Soil temperature reading _____ F/C at _____ (depth)

Surficial deposit:	Surface:	Average Texture:
bedrock	____% Bedrock	gravel
talus slope	____% Boulders (>50 cm)	sand
glacial till	____% Cobbles/Gravel	loamy sand / sandy loam
moraine	5 % Bare mineral soil	loam
esker/outwash	____% Organic soil	silt loam
glacial delta	25 % Litter (note type) broadleaf, fern, and Grass-like Plants	clay loams
lacustrine/fluvial	____% Water	sandy clay / clay
marine	70 % Total vegetation	peat
aeolian	____ Other:	muck
other:		

Bedrock type:		Soil stoniness:
Igneous granite dioritic gabbroic other igneous _____	Sedimentary limestone other sedimentary _____ details?	v. little (< 1%) moderate (2-25%) very (26-100%)
Metamorphic slate/phyllite schist/gneiss other metamorphic _____		

Drainage & moisture regime (see MAPPSS key):	Hydrologic regime:
very poorly drained	upland
poorly drained	nontidal wetland:
somewhat poorly drained	permanently flooded
moderately well drained	semiperm'ly flooded
well drained	seasonally flooded
somewhat excessively drained	saturated - in pool
excessively drained	tidal - irregularly
	tidal - regularly
	saltwater
	brackish
	freshwater
	unknown

date: initials: p. ____ of ____

Location of observation point 1