

Table 1. Summary of Trees identified in the NHS-Neyagawa Forest Patch ANSI 7.

Common Name	Family	Name	all Polygons				Polygon I+II			Polygon III+IV	
			% relative Basal Area	% Constancy	% constancy ratio	Average Vegetation Importance	% relative Basal Area	% Constancy	Average Vegetation Importance	% relative Basal Area	% Constancy
Red Maple	Aceraceae	<i>Acer rubrum</i>	8	62	0.83	7	10	55	8	1	57
Silver Maple	Aceraceae	<i>Acer saccharinum</i>	5	23	0.31	6	0	0	0	18	71
Sugar Maple	Aceraceae	<i>Acer saccharum</i>	13	77	0.90	11	12	65	10	21	100
White Birch	Betulaceae	<i>Betula papyrifera</i>	1	8	0.77	1	1	10	1	0	0
Musclewood	Betulaceae	<i>Carpinus caroliniana</i>	2	27	0.69	1	3	35	1	0	0
Hop-hornbeam	Betulaceae	<i>Ostrya virginiana</i>	8	46	0.92	6	9	55	7	1	29
Beech	Fagaceae	<i>Fagus grandifolia</i>	3	31	0.53	3	4	40	3	0	0
White Oak	Fagaceae	<i>Quercus alba</i>	3	42	0.66	3	2	30	3	4	86
Swamp White Oak	Fagaceae	<i>Quercus bicolor</i>	0	0	0.00	0	0	0	0	0	0
Bur Oak	Fagaceae	<i>Quercus macrocarpa</i>	1	15	0.42	1	1	15	1	1	29
Red Oak	Fagaceae	<i>Quercus rubra</i>	17	69	0.89	13	13	80	9	45	57
Black Oak	Fagaceae	<i>Quercus velutina</i>	0	4	0.58		0	0	0	1	29
Bitternut Hickory	Juglandaceae	<i>Carya cardiformis</i>	1	8	0.80	1	1	10	11		
Shagbark Hickory	Juglandaceae	<i>Carya ovata</i>	10	73	1.15	10	12	75	0	3	86
?Walnut	Juglandaceae	<i>Juglans nigra</i>	1	12	0.77	1	1	15	1	0	0
White Ash	Oleaceae	<i>Fraxinus americana</i>	10	69	0.67	8	11	70	10	2	86
Red/Green Ash	Oleaceae	<i>Fraxinus pennsylvanica</i>	1	4	0.29	1	1	5	1	0	0
White Pine	Pinaceae	<i>Pinus strobus</i>	10	46	0.91	7	13	60	7	0	0
Hemlock	Pinaceae	<i>Tsuga canadensis</i>	0	0		1	0	0	0	0	0
Black Cherry	Rosaceae	<i>Prunus serotina</i>	0	0		0	0	0	0	0	0
Prunus/Malus Spp	Rosaceae	<i>Prunus spp.</i>	1	12	0.87	1	1	15	1	0	0
Largetooth Aspen	Salicilaceae	<i>Populus grandidentata</i>	2	8	1.15	2	3	10	2	0	0
Trembling Aspen	Salicilaceae	<i>Populus deltoides</i>	0	4	0.00	1	0	5	0	0	0
Weeping Willow	Salicilaceae	<i>Salix babylonica</i>	0	1		1	0	2	0	0	0
Basswood	Tiliacea	<i>Tilia americana</i>	2	38	0.71	3	2	35	2	0	43
White Elm	Ulmaceae	<i>Ulmus americana</i>	1	19	0.77	1	1	10	1	1	57
Rock Elm	Ulmaceae	<i>Ulmus thomasi</i>	0.4	12	0.87	1	0.4	15	0	0	0

Table 2. Summary of Shrubs identified in the NHS-Neyagawa Forest Patch ANSI 7.

Common Name	Family	Binomial name	Height Class	Polygons	Location	Abundance & (Season observed)	Wetness Index (NHIC)	Coeff of Conservatism (NHIC)
Poisson Ivy	Anacardiaceae	<i>Rhus radicans var. radicans or Toxicodendron radicans spp. negundo</i>	1	I	clusters at stream edges and clearings	common through out	-1	5
American Hazel	Betulaceae	<i>Corylus americana</i>	3	I WP 42	fertile young forest site	uncommon	4	5
Bush Honeysuckle	Caprifoliaceae	<i>Diervilla lonicera</i>	1	I WP 24	elevated mesic terrain	uncommon	5	5
Maple-leaved Viburnum	Caprifoliaceae	<i>Viburnum acerifolium</i>	2	I WP 26?, 49	moist forest	occasional	5	6
Downy-Arrow Wood	Caprifoliaceae	<i>Viburnum rafinesquianum</i>	1	I WP AAB	mesic forest edge	one site only	5	7
Running Strawberry bush	Celastraceae	<i>Euonymus obovatus</i>	1	I,III	through out	common (spring)	5	6
Silky Dogwood	Cornaceae	<i>Cornus amomum var obliqua</i>	3	I WP AAD	low crawling	one site only	-4	5
Gray Dogwood	Cornaceae	<i>Cornus racemosa</i>	2	I WP 23	moist side lighted areas at or close to forest edges	occasional		0
Red Oiser	Cornaceae	<i>Cornus sericea ssp sericea</i>	3	I WP AAB	forest edges	occasional	-3	2
European Buckthorn	Rhamnaceae	<i>Rhamnus cathartica</i>	5	I WP 23, 42, AAD	moist side lighted or open canopy areas and forest margins.	occasional deep in the forest, very common in the forest margins.	3	-3
Juneberry	Rosaceae	<i>Amelanchier arborea</i>	5	I	single canopy forest	occasional (spring)	3	5
Smooth Serviceberry	Rosaceae	<i>Amelanchier laevis</i>	5	I	single canopy forest	occasional (spring)	5	5
Chokeberry??	Rosaceae	<i>Photinia (Aronia) melanocarpa</i>	3	I WP 40	closed canopy	occasional	-3	7
Hawthorn	Rosaceae	<i>Crataegus spp.</i>	5	I WP 42	fertile young forest site	occasional deep in the forest, more common in the forest margins.		
Hawthorn A	Rosaceae	<i>Crataegus chrysoarpa</i>	5	I,	mostly close to forest edges, sometimes close to streams	common through out	5	4
Hawthorn B	Rosaceae	<i>Crataegus spp. B</i>	5	I	forest edge and spots of light under close canopy conditions	occasional	-2	4
Choke Cherry	Rosaceae	<i>Prunus virginiana</i>	3	I	fertilized clearing	one site only	1	2
Black Raspberry	Rosaceae	<i>Rubus occidentalis</i>	1	I WP 42, AAD	canopy clearings in moist areas	uncommon	5	2

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Rose spp	Rosaceae	<i>Rosa spp.</i>	1	I AAD				
Smooth blackberry	Rosaceae	<i>Rubus canadensis</i>	1	I WP 54	stream bank / forest edge	one site only	5	7
Riverbank Grape	Viraceae	<i>Vitis riparia</i>	1				-2	0
Virginia Creeper	Vitaceae	<i>Parthenocissus vitacea</i>	1	I WP 35, AAW	wet places	locally common	1	6
Barberry	Barberidaceae	<i>Berberis spp. (thunbergii or x ottawensis)</i>	2	I WP 47, hunting chair #2	moist places (escapee?)	one zone	4	-1

Table 3. Summary of forb species identified in

Common Name	Family	Binomial name	Polygons	Location	Abundance & (Season observed)	Wetness Index (NHIC)	Coeff. of Conservatism (NHIC)
Spreading Dogbane	Apocynaceae	Apocynum androsaemifolium	IV	open field	one site only	5	3
Jack-in-the-pulpit	Araceae	Arisaema triphyllum	I,IV	swampy areas	occasional (spring)	-2	5
Bur-Marigold	Compositae	Bidens cernua	III	forest edge	one site only	-5	2
Large-leaved Aster	Compositae	Eurybia macrophylla	I WP 24, ...	patches on mesic well drained areas	common in wooded areas	5	5
Flat-top (Lance-leaved) Goldenrod	Compositae	Euthamia graminifolia	VI	meadow marshes	one site only	-2	2
Silverrod	Compositae	Solidago bicolor	I WP AAB, AAK			5	8
Blue-stem Goldenrod	Compositae	Solidago caesia	I WP 29, IV WP AAX	mature forest mesic ground	one site only	3	5
Canada Goldenrod	Compositae	Solidago canadensis	I WP 012, AAD	fertilized clearing, and forest edges, fields	common	3	1
Tall Goldenrod	Compositae	Solidago altissima (canadensis var scabra)	I AAA		one site only	3	1
Late Goldenrod	Compositae	Solidago gigantea	I AAA	patches in open woods	occasional	-3	4
Hairy Goldenrod	Compositae	Solidago hispida	I WP 42 to 45	swampy moist area	uncommon	5	7
Zig-zag Goldenrod	Compositae	Solidago flexicaulis	I WP 32; V/IV, III	forest edges or canopy openings	occasional isolated plants rarely in a cluster (summer)	3	6
Rush Aster	Compositae	Symphotrichum boreale	I WP 26	open hygric forest clearing	one site only	-5	10
Fringed Blue Aster	Compositae	Symphotrichum ciliolatum	WP 23		uncommon	4	6
Heart-leaved Aster	Compositae	Symphotrichum cordifolium	I WP 26, IV tip	large to small patches	common through out polygons I to IV.	5	5
Panicled Aster	Compositae	Symphotrichum lanceolatum var.?	I	open canopy & moist	common	-3	3
Panicled Aster	Compositae	Symphotrichum lanceolatum var.lanceolatum	I	open canopy edges	uncommon	-3	3
Calico aster	Compositae	Symphotrichum lateriflorum	I WP 37, 23	stream side	scattered in some places clusters	-2	3
New England Aster	Compositae	Symphotrichum novae-angliae	I WP 26	open hygric fertile forest opening	one site only	-3	2
Purple-stem Aster	Compositae	Symphotrichum puniceum	I WP 26	open hygric fertile forest opening	one site only	-5	6

Common Name	Family	Binomial name	Polygons	Location	Abundance & (Season observed)	Wetness Index (NHIC)	Coeff. of Conservatism (NHIC)
Wavy-Leaved Aster or Crooked Stem Astee	Compositae	Symphotrichum undulatum or Symphotrichum prenanthoides	I WP 12	fertilized clearing	one site only -rare	0	9
Arrow-leaved Aster	Compositae	Symphotrichum urophyllum	I AAA	patches in open woods	occasional	5	6
White Wood Aster	Compositae	Eurybia (Symphotrichum) divaricatus	I WP 12	mesic wood cover	marihuana site (autumn)	5	10
Lowrie's Aster	Compositae	Symphotrichum lowrieanus	I WP 26	open hygic forest clearing, xeric road edge?	one site only (autumn)		
Schreber's aster	Compositae	Eurybia schreberi	V/IV to III, I	mesic wood edges or tree bases in closed canopy	localized forming small to medium size patches (late summer)	5	8
Garlic Mustard	Cruciferae	Alliaria officinalis	I WP 35, WP AAK, IIIb	disturbed sites and dry forest edge	occasional (spring)	0	-3
Spring cress	Cruciferae	Cardamine bulbosa	I	central swamp only	uncommon (spring)	-5	8
Pennsylvania bittercress	Cruciferae	Cardamine pensylvanica	I	central swamp area	occasional (spring)	-4	6
Wild Mock Cucumber	Cucurbitaceae	Echinocystis lobata	I WP AAD		uncommon	-2	3
Wild Geranium	Geraniaceae	Geranium maculatum	I WP AAD, V WP 21	moist close	one site only	3	6
Herb-Robert	Geraniaceae	Geranium robertianum	I WP 23, AAD	flooded areas with lateral light sources	common	5	0
Hairy Skullcap	Labiatae	Scutellaria elliptica	I WP Poff AAB	wet forest ecotone region	one site only		
Spring beauty	Liliaceae	Claytonia virginica	I	wet edges, flood plains, canopy openings	common (spring)	3	5
Yellow trout-lily	Liliaceae	Erythronium americanum	I	through out	common (spring)	5	5
Solomon's Seal	Liliaceae	Polygonatum biflorum	I, III	dead beech tree patch	uncommon (spring/late summer)	3	8
Indian cucumber	Liliaceae	Medeola virginiana L	I	small floodplain	one site only -rare	5	
Starry or False Solomon's Seal	Liliaceae	Maianthemum racemosum var racemosum or stellata	I WP 24	mesic	uncommon	3	4
Twisted stalk	Liliaceae	Streptopus amplexifolius	I WP 32	mature forest mesic ground	one site only	-1	10

Common Name	Family	Binomial name	Polygons	Location	Abundance & (Season observed)	Wetness Index (NHIC)	Coeff. of Conservatism (NHIC)
White Trillium	Liliaceae	<i>Trillium grandiflorum</i>	I	through out	abundant (spring)	5	5
unidentified Lilly	Liliaceae		I	road edge	one site only, indication of escape (tossed from the road?) (spring)		
Beechdrops	Orobanchaceae	<i>Epifagus virginiana</i>	I WP 49	close to beech clstuters	occasional	5	6
Star flower	Primulaceae	<i>Trientalis borealis</i>	I	edge	one site only - rare in Halton (spring)	-1	6
White Baneberry	Ranunculaceae	<i>Actaea pachypoda</i>	I WP 29	mature forest mesic ground	one site only	5	6
Wood anemone	Ranunculaceae	<i>Anemone quinquefolia</i>	I	wet edge and wet interior	uncommon (spring)	0	7
Swamp Buttercup	Ranunculaceae	<i>Ranunculus (septemtrionalis) hispidus</i>	I Buttercup	streams	one site only	0	8
Creeping Buttercup	Ranunculaceae	<i>Ranunculus repens</i>	I	flood plains	common (spring)	-1	-1
Buttercup	Ranunculaceae	<i>Ranunculus spp.</i>					
Strawberry	Rosaceae	<i>Fragaria spp</i>	I	edge	common (spring)		
Common Strawberry	Rosaceae	<i>Fragaria virginiana</i>	I	clusters at stream edges and clearings	common through out	1	2
Yellow Avens	Rosaceae	<i>Geum aleppicum</i>	I WP AAK	dry disturbed area	uncommon	-1	2
Cream Avens	Rosaceae	<i>Geum virginianum</i>	I WP AAD		one site only	4	10
Rough-cinquefoil	Rosaceae	<i>Potentilla norvegica</i>	I WP AAD		one site only	0	0
Cinquefoil	Rosaceae	<i>Potentilla spp.</i>	I WP AAK	dry disturbed area	one site only	0	-2
Common Speedwell?	Scrophulariaceae	<i>Veronica officinalis</i>	I WP 37, V WP 21	mostly close to forest edges, sometimes close to streams	occasional	5	-1
Blue violet	Violaceae	<i>Viola papilionacea</i>	I	flood plain	one site only (spring)	0	0

Table 4. Summary of sages and grass species identified in the NHS-Neyagawa Forest Patch ANSI 7 (not definitive classification)

Common Name	Family	Binomial name	Polygons	Location	Abundance & (Season observed)
SAGES					
Forest grass sage	Cyperaceae	<i>Carex scirpoidea var scirpoidea</i>	I,III,IV,V	open canopy moist through out	very common (spring blooming)
broad leaf sage 1		?	I	vernal swamps	common (spring)
thin leaf clump sage		?	I	central swamp	abundant (spring)
Broad leaf sage 2 - Hairy Wood Rush	Juncaceae	<i>Luzula acuminata Raf. ssp. acuminata (Luzula pilosa)</i>	I WP 38	mariguana site clearing, but probably same as in clusters in damp partially open places	? common through out
GRASSES					
Rice Cut Grass	Poaceae	<i>Leersia oryzoides</i>	I	shallow stream floodplains / islands	common
Mana Grass			V		
?	?	?	I	Fen	uncommon
?	?	?	III	dry /disturbed / one site only	rare

Table 5. Summary of mushroom species identified in the NHS-Neyagawa Forest Patch ANSI 7(not definitive classification)

Common Name	Group	Phylum - Class	Binomial name	Polygons	Location	Abundance & (Season observed)
Birch Hypoxylon	Sac Fungi	Ascomycota	<i>Hypoxylon multiforme</i>	I	fallen branches	occasional
Lemon Drops	Sack Fungi	Ascomycota	<i>Bisporella citrina</i>	I WP 33, other	stumps and logs	common
Puffball	Puffballs	Basidiomycota - Gasteromycetes	<i>Lycoperdon pyriforme</i>		logs	
?	Boletes	Basidiomycota - Hymenomycetes	??	I WP off AAB	Rotten woody debris on soil	occasional
??	Bracket Fungi	Basidiomycota - Hymenomycetes	?	I WP 29	fallen birches	occasional (at location of birches)
??	Bracket Fungi	Basidiomycota - Hymenomycetes	??	I WP 52	Grows at the base of oak stumps	uncommon
?	Bracket Fungi	Basidiomycota - Hymenomycetes	??	I WP off AAB	Rotten wood	occasional
Bracket Fungus	Bracket Fungi	Basidiomycota - Hymenomycetes	? <i>Postia caesia</i>	I	Rotten wood	occasional
Algae covered Bracket Fungi	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Cerrena unicolor</i> ?			
Oak Polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Daedalea quercina</i>	I WP 52	Grows at the base of oak stumps	uncommon
Tinder polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Fomes fomentarius</i>	I WP 29, AAF	fallen or dead standing birches	occasional (at location of birches)
Late Fall Polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Ischnoderma resinosum</i>	I WP 52	Cut Red Oak stumps	occasional
White Bracket Fungus	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Phlebia tremellosa</i> ?	I	rottening hardwood	occasional
Phlebia fungi	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Phlebia tremellosa</i>		Logs	occasional
Birch Polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Piptoporus betulinus</i>	I WP 29	fallen birches	occasional (at location of birches)
Bay-brown polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Polyporus badius</i>	I WP 29	fallen birches	occasional (at location of birches)
Winter Polypore	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Polyporus brumalis</i>	I WP 53	logs; branches	uncommon
	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Polyporus umbellatus</i>	I WP 52, IV WP 21b	Grows at the base of oak stumps	occasional
Turkey-tail	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Trametes versicolor</i>	I WP 24, AAB, AAD	Rotten wood	occasional
Bracket Fungus	Bracket Fungi	Basidiomycota - Hymenomycetes	<i>Tremetes pubescence</i>	I	Rotten wood	occasional
?	Gill Fungi	Basidiomycota - Hymenomycetes	?	I WP 45	rottening hardwood	uncommon
?	Gill Fungi	Basidiomycota - Hymenomycetes	?	I WP 45	rottening hardwood	uncommon
Bleeding mushroom	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Agaricus haemorrhoidarius</i>	I WP 48	Rotten wood	uncommon
Amanita	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Amanita spp.</i>	I	leaf-litter covered moist grounds	occasional
	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Gymnopilus spp.?</i>	I WP 52	Grows at the base of oak stumps	uncommon
? Clustered Collybia	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Gymnopus acervatus</i>	I WP 54	dead young White elm	uncommon
Oak Collybia	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Gymnopus dryophilus</i>	through out	ground usually in clusters	common

Common Name	Group	Phylum - Class	Binomial name	Polygons	Location	Abundance & (Season observed)
Marismus spp.	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Marismus delectans</i>	I WP 45	rottening hardwood	uncommon
Marismus spp.	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Marismus pulcherripes</i>	I WP 45	rottening hardwood	uncommon
Micena spp.	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Micena adonis</i>	I WP 24	Rotten wood	uncommon
Micena spp.	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Micena pura</i>	I WP 24 to AAB	Rotten wood	uncommon
Orange Gill fungi	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Pholiota granulosa ?</i>	I	rottening hardwood	occasional
Phyllotopsis	Gill Fungi	Basidiomycota - Hymenomycetes	<i>Phyllotopsis nidulans??</i>		logs	uncommon
Tooth Fungus	Tooth Fungi	Basidiomycota - Hymenomycetes	? <i>Steccherinum ochraceum</i>	I	Rotten wood	occasional
White Jelly Fungus	Jelly Fungi	Basidiomycota - Phragmobasidiomycets	<i>Exidia alba</i>	I off WP 52	Debarked beech log	uncommon
Black Witch's Butter	Jelly Fungi	Basidiomycota - Phragmobasidiomycets	<i>Exidia glandulosa</i>	Hunting chair #2	dead branches	occasional
Slime mold	Slime Moulds	Myxomycota	<i>Lycogela epidendrum</i>	I	Rotten wood	occasional

Table 6. Summary of fern species identified in the NHS-Neyagawa Forest Patch ANSI 7

Common Name	Family	Binomial name	Polygons	Location	Abundance & (Season observed)
Spinulose Wood Fern	Dryopteridaceae	<i>Dryopteris carthusiana</i>	I WP 44, 45	vernal swamp	common
Sensitive Fern	Dryopteridaceae	<i>Onoclea sensibilis</i>	I WP 55, 38, 44	vernal swamps	common
Crested Shield Fern	Dryopteridaceae	<i>Dryopteris cristata</i>	I WP 45	vernal swamp	occasional
Christmas Fern	Dryopteridaceae	<i>Polystichum acrostichoides</i>	I WP 38	vernal swamp	occasional