

Howe Breeze Hill Farm Natural Resource Management Plan

Tara Kauffman, Natural Resources Manager
Brad Phillips, Environmental Projects Coordinator
(December 2012-Updated February 2019)

Erie MetroParks mission is to conserve natural resources while connecting the community with nature through education and exploration.

Features and Resources

Howe Breeze Hill Farm is located on State Route 60 south of Birmingham, where Denman Road ends. It contains 136 acres in total. Its western boundary is the Vermilion River and State Route 60 is its eastern boundary. Erie MetroParks holds conservation easements on this property, which is currently owned by Mr. Roger Howe (*see attachment property map*). There are caretakers living on site.

This working farm has 3 easements, one on the tillable acreage, one on the wooded portion, and one on the house and outbuildings lot. The tillable acreage is planted to corn and soybeans on an annual basis. The main house is old and historic, built in the Greek Revival style, and dates to 1800s. The woodland is mature oak and mixed, with impressive specimens of white oak especially. The Vermilion River flows along the entire western edge and abuts an extensive riparian bottomland, which is rich with wildflowers. The river valley is very steep, with some sandstone bluffs. An old quarry hole has been carved into a sandstone outcrop. A perched wetland exists in a very old oxbow about 15 feet above current river level.

Mr. Howe's goals in entering into these easements were to preserve the agricultural use of the farmland and to protect the excellent mature woodland against logging. The easement has been in place since 2001.

Plant diversity is very good, with 287 species found to date (*see attachment plant list through 2016*). Several species found here are not found in rest of the park system, including Common Polypody (*Polypodium virginianum*), Red Elderberry (*Sambucus racemosa*), and Cinnamon Fern (*Osmunda cinnamomea*) among others. These are more common farther east in Ohio. The bird list is underrepresented due to limited visitation over the years. It stands at 88 species (*see attachment bird list thru 2016*). Likewise, the Vertebrates list is short from lack of survey, at nine species (*see attachment vertebrate list thru 2011*).

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Management Strategies

Currently, Natural Resource staff visit this property at least once annually to check on compliance with the easement. It is recommended to call the caretakers a day in advance before visiting. North and south boundaries are walked to ensure that logging by neighbors has stayed within their property lines. (Both adjacent properties have been logged during the life of the easement, without incident).

Invasive Species

There are several invasive species on the property, most notably Lesser Celandine (*Ranunculus ficaria*) in the bottomland. At present no action is contemplated against these species.

Future Goals and Plans

The easements 'run with the land', meaning they are a permanent part of the deed and continue indefinitely. Erie MetroParks will continue to enforce and uphold these easements as long as the park system continues. Ultimate disposition of the property rests with Mr. Howe.

Howe Breeze Hill Farm





PLANT List, Howe Farm thru 2016

Thursday, March 23, 2017

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
L V						
	Huperzia lucidula (Michx.) Holub [Lycopodium l..]	Club-moss, Shining	X	N		
	Polystichum acrostichoides (Michx) Schott	Fern, Christmas	X	N		
	Osmunda cinnamomea L.	Fern, Cinnamon	X	N		
	Cystopteris fragilis (L.) Bernh.	Fern, Fragile	X?	N		
	Dryopteris marginalis (L.) A.Gray	Fern, Marginal Wood	X	N		
	Botrychium virginianum (L)Sw.	Fern, Rattlesnake	X	N		
	Onoclea sensibilis L.	Fern, Sensitive	X	N		
	Dryopteris carthusiana (Villars) Fuchs	Fern, Spinulose Wood	X	N		
	Botrychium dissectum Spreng	Grape-fern, Dissected	X	N		
	Polypodium virginianum L.	Polypody, Common	X	N		
	Equisetum hyemale L.	Scouring-rush, Tall	X	N		
	Asplenium platyneuron (L.) BSP	Spleenwort, Ebony	X	N		
			12		0	0
P						
	Agrimonia gryposepala Wallr.	Agrimony, Common	X	N		
	Agrimonia parviflora Aiton	Agrimony, Small-flowered	X	N		
	Zizia aurea (L.) Koch	Alexanders, Golden	X	N		
	Heuchera americana L.	Alum-root, Common	X	N		
	Anemone canadensis L.	Anemone, Canada	X	N		
	Anemone quinquefolia L.	Anemone, Wood	X	N		
	Symphyotrichum urophyllum (Lindl.) G.L. Nesom [Aster saggitifolius Wedem ex Willd.]	Aster, Arrow-leaved	X	N		
	Symphyotrichum pilosum (Willd.) G.L. Nesom [Aster p..us Willd.]	Aster, Awl	X	N		
	Symphyotrichum lateriflorum (L.) [Aster l..us (L.) Britt.]	Aster, Calico	X	N		
	Symphyotrichum prenanthoides (Muhl. ex Willd.) G.L. Nesom [A. p..]	Aster, Crooked-stemmed	X	N		
	Symphyotrichum lanceolatum (L.) [Aster l..us Willd.[A.simplex]	Aster, Eastern Lined	X	N		
	Symphyotrichum novae-angliae (L.) G.L. Nesom [Aster n.. L.]	Aster, New England	X	N		

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
	Eurybia divaricata (L.) G.L. Nesom [Aster divaricatus L.]	Aster, White Wood	X	N		
	Geum vernum (Raf.) T & G.	Avens, Spring	X	N		
	Geum canadense Jacq.	Avens, White	X	N		
	Actaea pachypoda Ell.	Baneberry, White	X	N		
	Penstemon digitalis Nutt. ex Simms	Beard-tongue, Foxglove	X	N		
	Galium aparine L.	Bedstraw, Cleavers	X	N		
	Galium concinnum T. & G.	Bedstraw, Shining	X	N		
	Galium triflorum Michx.	Bedstraw, Sweet-scented	X	N		
	Galium mollugo L.	Bedstraw, White	X	A		
	Galium circaeans Michx.	Bedstraw, Wild Licorice	X	N		
	Epifagus virginiana (L.) Barton.	Beech-drops	X	N		
	Bidens sp	Beggar-ticks, a	X	N		
	Calystegia sepium (L) R.Br.	Bindweed, Hedge	X	N		
	Mitella diphylla L.	Bishop's-Cap (Mitrewort)	X	N		
	Sanguinaria canadensis L.	Bloodroot	X	N		
	Mertensia virginica (L.) Pers.	Bluebells	X	N		
	Houstonia caerulea L.	Bluets	X	N		
	Eupatorium perfoliatum L.	Boneset, Common	X	N		
	Polygonum scandens L.	Buckwheat, Climbing False	X	N		
	Arctium minus Bernh.	Burdock, Common	X	A		
	Ranunculus hispidus Michx var nitidus	Buttercup, Swamp	X	N		
	Daucus carota L.	Carrot, Wild (Queen Anne's Lace)	X	A		
	Typha angustifolia L.	Cat-tail, Narrow-leaved	X	A		X
	Ranunculus ficaria L.	Celandine, Lesser	X	A		X
	Cerastium fontanum Baumg.[C.vulgatum]	Chickweed, Common Mouse-eared	X	A		
	Cichorium intybus L.	Chicory	X	A		
	Potentilla simplex Michx.	Cinquefoil, Common	X	N		
	Potentilla norvegica L.	Cinquefoil, Rough	X	N		
	Potentilla recta L.	Cinquefoil, Rough-fruited	X	A		
	Pilea pumila (L) A.Gray	Clearweed, Common	X	N		
	Xanthium strumarium L.	Cocklebur	X	N		
	Cimicifuga racemosa (L) Nutt.	Cohosh, Black	X	N		
	Caulophyllum thalictroides (L.) Michx	Cohosh, Blue (later, smaller)	X	N		

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
	<i>Caulophyllum thalictroides</i> var. <i>giganteum</i> Farw.	Cohosh, Giant Blue	X	N		
	<i>Barbarea vulgaris</i> R.Br.	Cress, Common Winter	X	A		
	<i>Cardamine hirsuta</i> L.	Cress, Hoary Bitter	X	A		
	<i>Cardamine douglassii</i> Britton	Cress, Purple Bitter	X	N		
	<i>Cardamine bulbosa</i> (Schreb) BSP	Cress, Spring	X	N		
	<i>Ranunculus sceleratus</i> L.	Crowfoot, Cursed	X	N		
	<i>Ranunculus recurvatus</i> Poir.	Crowfoot, Hooked	X	N		
	<i>Medeola virginiana</i> L.	Cucumber root, Indian	X	N		
	<i>Silphium perfoliatum</i> L.	Cup-plant	X	N		
	<i>Leucanthemum vulgare</i> Lam. [<i>Chrysanthemum leucanthemum</i> L.]	Daisy, Ox-eye	X	A		
	<i>Hesperis matronalis</i> L.	Dame's Rocket	X	A		
	<i>Taraxacum officinale</i> Weber	Dandelion, Common	X	A		
	<i>Lamium purpureum</i> L.	Dead-nettle, Purple	X	A		
	<i>Penthorum sedoides</i> L.	Ditch-Stonecrop	X	N		
	<i>Rumex crispus</i> L.	Dock, Curled	X	A		
	<i>Cuscuta gronovii</i> Willd.	Dodder, Common	X	N		
	<i>Apocynum cannabinum</i> L.	Dogbane, Indian-Hemp	X	N		
	<i>Arisaema dracontium</i> (L.) Schott.	Dragon, Green	X	N		
	<i>Dicentra cucullaria</i> (L.) Bernh.	Dutchman's-Breeches	X	N		
	<i>Oenothera biennis</i> L.	Evening-primrose, Common	X	N		
	<i>Floerkea proserpinacoides</i> Willd.	False Mermaid	X	N		
	<i>Erythronium albidum</i> Nutt.	Fawn-lily, White	X	N		
	<i>Erythronium americanum</i> Ker.	Fawn-lily, Yellow	X	N		
	<i>Erigeron annuus</i> (L) Pers.	Fleabane, Daisy (toothy)	X	N		
	<i>Erigeron strigosus</i> Muhl. ex Willd.	Fleabane, Rough	X	N		
	<i>Allium vineale</i> L.	Garlic, Field	X	A		
	<i>Allium canadense</i> L.	Garlic, Wild	X	N		
	<i>Geranium maculatum</i> L.	Geranium, Wild	X	N		
	<i>Asarum canadense</i> L.	Ginger, Wild	X	N		
	<i>Solidago caesia</i> L.	Goldenrod, Blue-stemmed	X	N		
	<i>Solidago canadensis</i> L.	Goldenrod, Canada (+Tall)	X	N		
	<i>Euthamia graminifolia</i> (L.) Nutt.	Goldenrod, Flat-topped	X	N		
	<i>Solidago gigantea</i> Aiton	Goldenrod, Smooth	X	N		
	<i>Solidago flexicaulis</i> L.	Goldenrod, Zigzag	X	N		

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
	<i>Echinochloa crus-galli</i> (L) Beauv.	Grass, Barnyard	X	N		
	<i>Diarrhena americana</i> P.Beauv.	Grass, Beak	X	N		
	<i>Elymus hystrix</i> L. [<i>Hystrix patula</i>]	Grass, Bottlebrush	X	N		
	<i>Bromus</i> sp	Grass, Brome, non downy type	X	u		
	<i>Cinna arundinacea</i> L.	Grass, Common Wood-Reed	X	N		
	<i>Panicum dichotomiflorum</i> Michx.	Grass, Fall Panic	X	N		
	<i>Poa sylvestris</i> A.Gray	Grass, Forest Blue	X?	N		
	<i>Glyceria striata</i> (Lam.)A.Hitch.	Grass, Fowl Manna	X	N		
	<i>Setaria faberi</i> Herrm.	Grass, Giant Foxtail	X	A		
	<i>Poa pratensis</i> L.	Grass, Kentucky Blue	X	Z		
	<i>Lolium pratense</i> (Huds.) Darbyshire [<i>Festuca pr..sis</i>]	Grass, Meadow Fescue?	X	A		
	<i>Dactylis glomerata</i> L.	Grass, Orchard	X	A		
	<i>Elymus repens</i> (L.) Gould (<i>Agropyron</i>)	Grass, Quack	X	A		
	<i>Phalaris arundinacea</i> L.	Grass, Reed Canary	X	A		X
	<i>Elymus riparius</i> Wieg.	Grass, Streambank Wild Rye	X?	N		
	<i>Elymus virginicus</i> L.	Grass, Virginia Wild Rye	X	N		
	<i>Setaria pumila</i> (Poir) Roem. & Schult. [<i>S. glauca</i> (L.) Beauv.]	Grass, Yellow Foxtail	X	A		
	<i>Glechoma hederacea</i> L.	Ground Ivy	X	A		
	<i>Physalis longifolia</i> Nutt.	Ground-cherry, Smooth	X	N		
	<i>Apios americana</i> Medicus	Groundnut, Common	X	N		
	<i>Senecio vulgaris</i> L.	Groundsel, Common	X	A		
	<i>Erigenia bulbosa</i> (Michx.) Nutt.	Harbinger-of-Spring	X	N		
	<i>Hieracium pilosella</i> L.	Hawkweed, Mouse-ear	X	A		
	<i>Hepatica acutiloba</i> DC.	Hepatica, Sharp-lobed	X	N		
	<i>Solanum carolinense</i> L.	Horse-nettle	X	Z		
	<i>Camassia scilloides</i> (Raf.) Cory.	Hyacinth, Wild	X	N		
	<i>Vernonia gigantea</i> (Walt)Trel ex Branner & Coville	Ironweed, Tall	X	N		
	<i>Arisaema triphyllum</i> (L.) Schott	Jack-in-the-pulpit	X	N		
	<i>Polemonium reptans</i> L.	Jacob's-ladder	X	N		
	<i>Impatiens capensis</i> Meerb.	Jewelweed, Orange (Touch-me-not)	X	N		
	<i>Impatiens pallida</i> Nutt.	Jewelweed, Yellow	X	N		
	<i>Eutrochium fistulosum</i> (Barratt) E.E. Lamont [<i>Eupatorium</i> f. Barratt]	Joe-pye-weed, Hollow-stemmed	X	N		

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	<i>Polygonum aviculare</i> L.	Knotweed, Prostrate	X	A		
	<i>Polygonum virginianum</i> L.	Knotweed, Virginia	X	N		
	<i>Chenopodium album</i> L.	Lambsquarters	X	A		
	<i>Allium tricoccum</i> Ait.	Leek, Wild	X	N		
	<i>Lactuca canadensis</i> L.	Lettuce, Wild	X	N		
	<i>Lilium michiganense</i> Farw.	Lily, Michigan	X	N		
	<i>Lobelia inflata</i> L.	Lobelia, Indian-Tobacco	X	N		
	<i>Lysimachia ciliata</i> L.	Loosestrife, Fringed	X	N		
	<i>Lysimachia quadrifolia</i> L.	Loosestrife, Whorled	X	N		
	<i>Prosartes lanuginosa</i> (Michx.) G.Don [<i>Disporum</i> ...]	Mandarin, Yellow	X	N		
	<i>Caltha palustris</i> L.	Marsh-Marigold	X	N		
	<i>Podophyllum peltatum</i> L.	Mayapple	X	N		
	<i>Asclepias syriaca</i> L.	Milkweed, Common	X	N		
	<i>Lysimachia nummularia</i> L.	Moneywort	X	A		
	<i>Mimulus ringens</i> L.	Monkey-flower, Common	X	N		
	<i>Ipomoea hederacea</i> Jacq.	Morning-glory, Ivy-leaved	X	A		
	<i>Verbascum thapsus</i> L.	Mullein, Common	X	A		
	<i>Alliaria petiolata</i> (M.Bieb) Cavara & Grande	Mustard, Garlic	X	A		X
	<i>Boehmeria cylindrica</i> (L.) Sw.	Nettle, False	X	N		
	<i>Solanum nigrum</i> L. [<i>S. ptychanthum</i>]	Nightshade, Black	X	N		
	<i>Circaea lutetiana</i> L.	Nightshade, Common Enchanter's	X	N		
	<i>Mitchella repens</i> L.	Partridge-berry	X	N		
	<i>Vinca minor</i> L.	Periwinkle, Common	X	A		
	<i>Plantago major</i> L.	Plantain, Common	X	A		
	<i>Phytolacca americana</i> L.	Pokeweed	X	N		
	<i>Antennaria parlinii</i> Fernald [<i>A.</i> <i>plantaginifolia</i> (L.) Richardson]	Pussy-toes, Plantain-leaved	X	N		
	<i>Ambrosia artemisiifolia</i> L.	Ragweed, common	X	N		
	<i>Packera aurea</i> (L.) [<i>Senecio aureus</i> L.]	Ragwort, Golden	X	N		
	<i>Prenanthes</i> sp	Rattlesnake-root, a	X	N		
	<i>Collinsonia canadensis</i> L.	Richweed (Horsebalm)	X	N		
	<i>Arabis laevigata</i> (Willd) Poiret	Rock Cress, Smooth	X	N		
	<i>Thalictrum dioicum</i> L.	Rue, Early Meadow	X	N		

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	<i>Thalictrum thalictroides</i> (L.) Eames & Boiv.	Rue-anemone	X	N		
	<i>Isopyrum biternatum</i> (Raf.)T.&G.	Rue-anemone, False	X	N		
	<i>Juncus</i> sp.	Rush	X	N		
	<i>Aralia nudicaulis</i> L.	Sarsaparilla, Wild	X	N		
	<i>Carex convoluta</i> Mack.	Sedge	X	N		
	<i>Carex intumescens</i> Rudge	Sedge, Bladder	X	N		
	<i>Carex buxbaumii</i> Wahl.	Sedge, Brown Bog	X?	N		
	<i>Carex sparganoides</i> Muhl.ex.Willd	Sedge, Bur-reed	X	N		
	<i>Carex blanda</i> Dewey	Sedge, Common Wood	X?	N		
	<i>Carex prasina</i> Wahlenb.	Sedge, Drooping	X	N		
	<i>Carex vulpinoidea</i> Michx.	Sedge, Foxtail	X?	N		
	<i>Carex gracillima</i> Schwein.	Sedge, Graceful	X?	N		
	<i>Carex hirtifolia</i> Mackenz.	Sedge, Hairy-leaved	X	N		
	<i>Carex lupulina</i> Muhl.ex Willd.	Sedge, Hop	X?	N		
	<i>Carex jamesii</i> Schwein.	Sedge, James'	X	N		
	<i>Carex</i> sec. <i>Laxiflorae</i>	Sedge, laxiflorae	X	N		
	<i>Carex pensylvanica</i> Lam.	Sedge, Pennsylvania	X	N		
	<i>Carex radiata</i> (Wahlenb.)Small	Sedge, Radiate	X	N		
	<i>Carex conjuncta</i> Boott.	Sedge, Soft Fox	X	N		
	<i>Carex rosea</i> Schkuhr ex Willd.	Sedge, Stellate	X	N		
	<i>Prunella vulgaris</i> L.	Self-heal(Heal-all)	X	A		
	<i>Symplocarpus foetidus</i> (L) Salisb. ex Barton	Skunk-cabbage	X	N		
	<i>Polygonum</i> sp.	Smartweed, a	X	N		
	<i>Sanicula</i> sp.	Snakeroot, a Black	X	N		
	<i>Ageratina altissima</i> (L.) R.M.King & H.Rob. [<i>Eupatorium rugosum</i> Houtt.]	Snakeroot, White	X	N		
	<i>Smilacina racemosa</i> (L.) Desf.	Solomon's-plume,	X	N		
	<i>Polygonatum pubescens</i> (Willd.) Pursh	Solomon's-seal, Hairy	X	N		
	<i>Rumex acetosella</i> L.	Sorrel, Sheep	X	A		
	<i>Sonchus oleraceus</i> L.	Sow-thistle, Common	X	A		
	<i>Aralia racemosa</i> L.	Spikenard	X	N		
	<i>Claytonia virginica</i> L.	Spring-beauty	X	N		
	<i>Euphorbia maculata</i> L.	Spurge, Prostrate	X	A		
	<i>Dicentra canadensis</i> (Goldie) Walp.	Squirrel-corn	X	N		

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	<i>Hypericum punctatum</i> Lam.	St.-John's-wort, Spotted	X	N		
	<i>Ornithogalum umbellatum</i> L.	Star-of-Bethlehem	X	A		
	<i>Sedum ternatum</i> Michx.	Stonecrop, Wild	X	N		
	<i>Fragaria virginiana</i> Duchesne	Strawberry, Virginia	X	N		
	<i>Polygonum arifolium</i> L.	Tearthumb, Halberd-leaved	X	N		
	<i>Dipsacus fullonum</i> L.	Teasel, Common	X	A		X
	<i>Cirsium vulgare</i> (Savi) Tenore	Thistle, Bull	X	A		
	<i>Cirsium arvense</i> (L) Scop.	Thistle, Canada	X	A		X
	<i>Trillium sessile</i> L.	Toadshade	X	N		
	<i>Cardamine diphylla</i> (Michx.) A.W.Wood [<i>Dentaria</i> ...]	Toothwort, Common	X	N		
	<i>Cardamine concatenata</i> (Michx.) Sw. [<i>Dentaria laciniata</i>]	Toothwort, Cut-leaved	X	N		
	<i>Trillium flexipes</i> Raf.	Trillium, Drooping	X	N		
	<i>Trillium grandiflorum</i> (Michx) Salisb.	Trillium, Large-flowered	X	N		
	<i>Valeriana pauciflora</i> Michx.	Valerian, Large-flowered	X	N		
	<i>Abutilon theophrasti</i> Medik.	Velvet-leaf	X	A		
	<i>Verbena urticifolia</i> L.	Vervain, White	X	N		
	<i>Viola sororia</i> Willd.	Violet, Common Blue	X?	N		
	<i>Viola striata</i> Ait.	Violet, Common White (Cream)	X	N		
	<i>Viola pubescens</i> Ait.	Violet, Common Yellow	X	N		
	<i>Viola rostrata</i> Pursh	Violet, Long-spurred	X	N		
	<i>Viola triloba</i> Schwein	Violet, Three-lobed	X	N		
	<i>Clematis virginiana</i> L.	Virgin's-bower	X	N		
	<i>Hydrophyllum virginianum</i> L.	Waterleaf, Virginia	X	N		
	<i>Epilobium coloratum</i> Biehler	Willow-herb, Purple-leaved	X?	N		
	<i>Verbesina alternifolia</i> (L)Britt.	Wingstem	X	N		
	<i>Laportea canadensis</i> (L.) Wedd.	Wood-nettle	X	N		
	<i>Luzula echinata</i> (Small)F.J.Herm.	Wood-rush	X	N		
	<i>Oxalis stricta</i> L.	Wood-sorrel, Common yellow	X	N		
	<i>Dioscorea villosa</i> L.	Yam, Wild	X	N		
	<i>Achillea millefolium</i> L.	Yarrow	X	A		
	<i>Packera glabellus</i> (Poir.) C. Jeffrey [<i>Senecio g.. Poir.</i>]	Yellowtop	X	N		
			207		0	6

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
	<i>Fraxinus nigra</i> Marshall	Ash, Black	X	N		
	<i>Fraxinus pennsylvanica</i> Marshall	Ash, Red and Green	X	N		
	<i>Fraxinus americana</i> L.	Ash, White	X	N		
	<i>Elaeagnus umbellata</i> Thunb.	Autumn-olive	X	A		X
	<i>Berberis thunbergii</i> DC	Barberry, Japanese	X	A		
	<i>Tilia americana</i> L.	Basswood	X	N		
	<i>Fagus grandifolia</i> Ehrh.	Beech, American	X	N		
	<i>Rubus occidentalis</i> L.	Bramble, Black Raspberry	X	N		
	<i>Rubus allegheniensis</i> Porter.	Bramble, Common Blackberry	X	N		
	<i>Rubus flagellaris</i> Willd.	Bramble, Northern Dewberry	X	N		
	<i>Aesculus glabra</i> Willd.	Buckeye, Ohio	X	N		
	<i>Cephalanthus occidentalis</i> L.	Buttonbush	X	N		
	<i>Prunus avium</i> L.	Cherry, Sweet	X	A		
	<i>Prunus serotina</i> Ehrh.	Cherry, Wild Black	X	N		
	<i>Prunus virginiana</i> L.	Choke Cherry	X	N		
	<i>Populus deltoides</i> Marsh	Cottonwood	X	N		
	<i>Parthenocissus quinquefolia</i> (L) Planch.	Creeper, Virginia	X	N		
	<i>Cornus florida</i> L.	Dogwood, Flowering	X	N		
	<i>Cornus serica</i> L. [stolonifera]	Dogwood, Red-Osier	X	N		
	<i>Sambucus racemosa</i> L.	Elder, Red	X	N		
	<i>Sambucus canadensis</i> L.	Elderberry or Common Elder	X	N		
	<i>Ulmus rubra</i> Muhl.	Elm, Red (Slippery)	X	N		
	<i>Ulmus americana</i> L.	Elm, White (American)	X	N		
	<i>Ribes cynosbati</i> L.	Gooseberry, Prickly	X	N		
	<i>Vitis vulpina</i> L.	Grape, Frost	X	N		
	<i>Vitis riparia</i> Michx.	Grape, Riverbank	X	N		
	<i>Vitis aestivalis</i> Michx.	Grape, Summer	X	N		
	<i>Smilax hispida</i> Muhl.	Greenbrier, Bristly	X	N		
	<i>Smilax rotundifolia</i> L.	Greenbrier, Common	X	N		
	<i>Crataegus</i> sp.	Hawthorn, a	X	N		
	<i>Tsuga canadensis</i> (L.) Carr	Hemlock, Eastern	X	N		
	<i>Carya cordiformis</i> (Wang.) K.Koch	Hickory, Bitternut	X	N		
	<i>Carya ovata</i> (Mill.) K.Koch	Hickory, Shagbark	X	N		
	<i>Ostrya virginiana</i> (Mill.) K.Koch	Hop-Hornbeam	X	N		
	<i>Carpinus caroliniana</i> Walt.	Ironwood, (Amer. Hornbeam)	X	N		

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
	<i>Toxicodendron radicans</i> (L) Ktze.	Ivy, Poison	X	N		
	<i>Robinia pseudoacacia</i> L.	Locust, Black	X	Z		
	<i>Acer negundo</i> L.	Maple, Ash-leaved(Box-elder)	X	N		
	<i>Acer rubrum</i> L.	Maple, Red	X	N		
	<i>Acer saccharum</i> Marsh	Maple, Sugar	X	N		
	<i>Menispermum canadense</i> L.	Moonseed	X	N		
	<i>Morus alba</i> L.	Mulberry, White	X	A		
	<i>Quercus rubra</i> L.	Oak, Red	X	N		
	<i>Quercus bicolor</i> Willd.	Oak, Swamp White	X	N		
	<i>Quercus alba</i> L.	Oak, White	X	N		
	<i>Asimina triloba</i> (L.) Dunal.	Pawpaw	X	N		
	<i>Pinus strobus</i> L.	Pine, White	pl	Z		
	<i>Juniperus virginiana</i> L.	Red-cedar, Eastern	X	N		
	<i>Rosa multiflora</i> Thunb.	Rose, Multiflora	X	A		X
	<i>Rosa palustris</i> Marsh.	Rose, Swamp	X	N		
	<i>Sassafras albidum</i> (Nutt.) Nees	Sassafras	X	N		
	<i>Amelanchier laevis</i> Wieg.	Serviceberry (Juneberry)	X?	N		
	<i>Nyssa sylvatica</i> Marsh	Sour-gum (Black-gum)	X	N		
	<i>Lindera benzoin</i> (L.) Blume	Spicebush	X	N		
	<i>Euonymus obovatus</i> Nutt.	Strawberry-bush, Running	X	N		
	<i>Rhus glabra</i> L.	Sumac, Smooth	X	N		
	<i>Platanus occidentalis</i> L.	Sycamore	X	N		
	<i>Ailanthus altissima</i> (Mill.) Swingle	Tree-of-Heaven	X	A		X
	<i>Liriodendron tulipifera</i> L.	Tulip-poplar	X	N		
	<i>Viburnum acerifolium</i> L.	Viburnum, Maple-leaved	X	N		
	<i>Euonymus atropurpureus</i> Jacq.	Wahoo	X	N		
	<i>Juglans nigra</i> L.	Walnut, Black	X	N		
	<i>Salix eriocephala</i> Michx. (<i>S. rigida</i>)	Willow, Heart-leaved	X	N		
	<i>Salix exigua</i> Nutt. (<i>S. interior</i>)	Willow, Sandbar	X	N		
	<i>Salix lucida</i>	Willow, Shining	X	N		
	<i>Ilex verticillata</i> (L.) A. Gray	Winterberry	X	N		
	<i>Euonymus fortunei</i> (Turcz.) Hand.-Mazz.	Wintercreeper, Chinese	X	A		X
	<i>Hamamelis virginiana</i> L.	Witch-hazel	X	N		
			68		0	4

Code	SciName	Common Name	Howe	Origin	Listed	Invasive
287			287		0	10

Legend for Plant List

Code	Listed	Origin	Abundance/Distribution	Description of Code
L V				Lower Vascular Plant
P				Herbaceous
T				Woody Plant
	E			Endangered on State List
	P			Potentially Threatened on State List
	T			Threatened on State List
		A		Alien to Area and Country
		N		Native to Area, Indigenous
		Z		Naturalized from other part of country
			** bl	found by J. Blakeman
			** dnr	found by ODNR personnel
			** et	found by Envirotech Consultants
			** JB	found by J. Bissell
			** jm	found by John Mack
			** LT	found by L. Terveen
			A L	Abundant & Local
			A M	Abundant & Moderately Distributed
			A W	Abundant & Widespread
			ark	planted by J. Blakeman in 'ark' prairie
			C L	Common & Local
			C M	Common & Moderately Distributed
			C W	Common & Widespread
			N	Unknown Abundance or Distribution
			o	old record, not found recently
			pl	planted, usually leftover landscaping
			R L	Rare & Local
			R M	Rare and Moderately Distributed
			R W	Rare and Widespread
			re	restoration planting species
			U L	Uncommon & Local
			U M	Uncommon & Moderately Distributed
			U W	Uncommon & Widespread
			X	Present



Howe Breeze Hill Vertebrates thru 2011

Tuesday, December 11, 2012

Common Name	Howe	Group
Frog, Wood	X	A
Toad, American	X	A
Chipmunk, Eastern	X	M
Deer, White Tail	X	M
Fox, Red	X	M
Opossum, Virginia	X	M
Raccoon	X	M
Squirrel, Fox	X	M
Squirrel, Red	X	M

9



Birds of Howe Breeze Hill Farm thru 2016

Tuesday, February 07, 2017

Species	Howe
Canada Goose	Resident
Tundra Swan	Flyover
Wood Duck	Summer Resident
Wild Turkey	Resident
Great Blue Heron	Visitor
Turkey Vulture	Resident
Bald Eagle	Flyover
Red Shouldered Hawk	Resident
Red-tailed Hawk	Resident
Killdeer	Resident
Solitary Sandpiper	Migrant
Ring-billed Gull	Flyover
Rock Pigeon	Resident
Mourning Dove	Resident
Black-billed Cuckoo	Summer Resident
Yellow-billed Cuckoo	Resident
Screech Owl	Resident
Great Horned Owl	Resident
Chimney Swift	Resident
Ruby-throated Hummingbird	Resident
Belted Kingfisher	Resident
Red-bellied Woodpecker	Resident
Downy Woodpecker	Resident
Hairy Woodpecker	Resident
Yellow-shafted Flicker	Resident
Pileated Woodpecker	Resident
Eastern Wood Pewee	Resident
Acadian Flycatcher	Resident
Eastern Phoebe	Resident
Great Crested Flycatcher	Resident
Eastern Kingbird	Resident
Yellow Throated Vireo	Resident
Red-eyed Vireo	Resident

Species	Howe
Blue Jay	Resident
American Crow	Resident
Horned Lark	Resident
Purple Martin	Summer Visitor
Tree Swallow	Resident
Barn Swallow	Summer Resident
Black-capped Chickadee	Year Round Resident
Tufted Titmouse	Year Round Resident
White-breasted Nuthatch	Year Round Resident
Brown Creeper	Winter Visitor
Carolina Wren	Year Round Resident
House Wren	Summer Resident
Winter Wren	Winter Visitor
Golden-crowned Kinglet	Winter Visitor
Ruby Crowned Kinglet	Migrant
Blue-gray Gnatcatcher	Summer Resident
Eastern Bluebird	Year Round Resident
Veery	Migrant
Hermit Thrush	Migrant
Wood Thrush	Summer Resident
American Robin	Resident most of year
Gray Catbird	Summer Resident
Starling	Year Round Resident
Cedar waxwing	Summer Resident
Yellow Warbler	Summer Resident
Chestnut-sided Warbler	Migrant
Black-throated Green Warbler	Migrant
Cerulean Warbler	Migrant
American Redstart	Summer Resident
Ovenbird	Migrant
Louisiana Waterthrush	Summer Resident
Common Yellowthroat	Summer Resident
Hooded Warbler	Summer Resident
Scarlet Tanager	Summer Resident
Northern Cardinal	Year Round Resident

Species	Howe
Rose-breasted Grosbeak	Summer Resident
Indigo Bunting	Summer Resident
Rufous Sided Towhee	Summer Resident
Tree Sparrow	Winter Visitor
Chipping Sparrow	Summer Resident
Field Sparrow	Summer Resident
Fox Sparrow	Migrant
Song Sparrow	Year Round Resident
White-throated Sparrow	Winter Visitor
White-crowned Sparrow	Migrant
Dark-eyed Junco	Winter Visitor
Red-winged blackbird	Summer Resident
Eastern Meadowlark	Summer Resident
Rusty Blackbird	Migrant
Common Grackle	Summer Resident
Brown-headed Cowbird	Summer Resident
Baltimore Oriole	Summer Resident
House Finch	Year Round Resident
American Goldfinch	Year Round Resident
House Sparrow	Year Round Resident