| CLEVELAND MET Project Label; | FROPARKS Plant Community Asses PCAP | | | 1 1 | d: CKM |
|----------------------------------|--|-------|------------------|---|-----------|
| <u></u> | - I tradition that | | | | |
| D. 1 | de affinale Describedada | (Y) N | 10 | Comment required if item answer is N | O . |
| | de of Park Boundaries: | | It yes, write | e details in Comments section below | |
| Field journals comple | | YN | + | | |
| Site sketch made on | The state of the s | Y N | + | | |
| Check cover page | X-axis Bearing of plot recorded | - | + | | |
| | GPS coords. Recorded | 23 | + | | |
| | North direction recorded | 175 | + | | |
| | Photographs taken? | Y N | + | Total | |
| | Relocated Pins Mapped | (Y) N | + | | |
| Plot No., Date agreen | | (Y) N | + | | |
| Header data complete | | N Q | | | |
| | d in all Intensive modules | N Ø | - | | |
| Browse Level By Spe | cies | ₩ N | | 100 0 | |
| Woody stem quality of | control check | Y N | | y line and cross check with the Tree Co | ver Sheet |
| Invasive plant quality | control check | YN | NA | | |
| Ash trees mapped | | → N | | | |
| Completed Forest Pes | st/Pathogen Datasheet | (Y) N | | (162 | |
| Cover by Strata? (con | firm cover type) | (v) N | 100 | | |
| Soil samples collected | d with matching plot #. | YN | NA | | |
| Cross check 2010 inf | ormation | (Y) N | Highlight a | ny changes from 2010 information | |
| Vouchers labeled on o | datasheet with initials and number | (Y) N | | 1 100 100 100 100 | |
| Vouchers labeled on o | collection bag | M (V) | | | |
| Pink flags removed | | © N | | —————————————————————————————————————— | 2507 |
| Data sheet QA before | e leaving site? | ₩ N | | | |
| Common equipment | returned to tub. | Y N | | | = en 0×0 |
| Data sheets scanned? | | | Enter date | to left | 1 |
| Final data sheets scan | nned? | | Enter date | to left | |
| Buffer Widths measu | red? | Y N | | 78-300-60-600-60-60 | |
| Web Soil Survey | | Y N | | | |
| Voucher Location | Refrigerator | Y N | | | |
| (# vouchers collected) | Press (#) | | Enter numb | ocr to Icfl | |
| CKM 451- | Drier | Y N | | 1 8 | |
| | Identified | YN | | | |
| 464 | Mounted | YN | | | 7 |
| 4 | Thrown away | YN | | | |
| | | | | | |
| CDTS naint varifies | ition: Is plot sampleable? | | | | |
| □ Yes | - 10 / n | | | | |
| | Original GRTS point is sampleable | 1 11 | /CH 1 . | | |
| □ No | Original GRTS point lands in a non- Doint falls in a water (i.e. river, i | | (IIII in calegor | y ociow) | |
| | Managed moved area (i.e. golf | | right-of-way) | | |
| | ☐ Paved area (i.e. parkinglot, road) | | remove stays | | |
| | ☐ Unsafe to sample (i.e. steep slope | :) | | | |
| | □ Other | | | | |

Found all pins, Park at Polaris Career Center

.

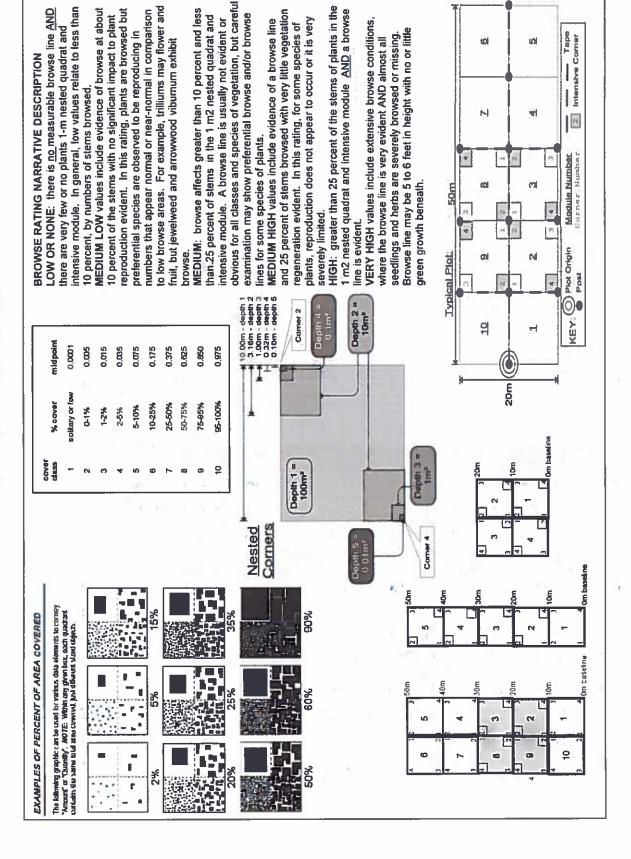
Muddy

| CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | nmunity Assessment P | rogram - Backgr | ound Data | Sheet | | | (Cheroland Munumba | 1 |
|---|--|--------------------------|----------------------------------|-------------------|----------|-------------------|---|------|
| Project Label: | PCAP | Project Na | Project Name: 02 BC 2015 | 21027 | | Plot No.: | Plot No.: 1078 Page 2 of 2 | of 2 |
| MODIFIED NATURESERVE CLASS* | | | DISTU | DISTURBANCES | , | | | |
| CODE (on separate form): | Fit=Conf= | | type* | severity** | | yrs ago % of plot | description | П |
| /W 10° | | | Human | Ī | 14 | IV. | KAR Ach (man bill | |
| ONAM INTERNATION | | | Fire | | | | The Keller with the last | Τ |
| Common Livers | | | 3 | | | | | Γ |
| Mixed Swamp Forest | 5 | | Animal | M | 0 |) (pc) | Deer Browse | Π |
| V | | | Other | | , | | | |
| HOMOGENEITY | | | **L=low, | ML=med lo | v. M=med | MH≂med | **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high | |
| Filomogeneous Compositional | □ Compositional trend across the plot | | Current | Current Land Use: | CMP | | | |
| nclusions | n mosaic | ! | Former | Former Land Use: | | | | |
| | HYDROLOGIC REGIME* | GIME* | | | 1 7 | | 9 | Š. |
| | Upland (seldom flooded) | o In | □ Intermittently flooded | poped | | | | |
| SALINITY* | Mntermittently/seasonally saturated | | Semipermanently flooded | y flooded | | | | |
| D Saltwater | (seldom flooded) | | Permanently flooded | oded | | | | |
| D Brackish | n Permanently/Semipermanent, saturated | | ☐ Tidal/Seiche flooded daily | oded daily | | | | |
| Chrish SQF 10-22-15 | (dry <1/yr, seldom flooded) | | n Tidal/Seiche flooded monthly | oded monthly | | | | |
| Upland (n/a) | □ Occasionally flooded (<1/yr) | | □ Tidal/Seiche flooded irregular | oded irregula | | | | |
| • | Temporarily flooded | • | (e.g. wind, storms) | ms) | | | | |
| (by default unless plot is a wetland) | | Ua | □ Unknown | | | | | |
| Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) | ess of plot to the stand, succes | sional status, maturity, | , etc.) | | | | | |
| The stand is un-even aged. The plot is botween a cat-fail swamp and a wooded | naged. The pl | lot 75 bot | משמה | Cat Cat | - / mad | Wamp | and a wooded | |
| slepe. The plot takes on | characteristics | of a sw | amp for | irst. A | Khem | X | bioninoid you | |
| cover and diversity. An interesting plot with some uncommonly seen species, above average | interesting plat | with some u | uncomm | only se | ds uz | eues | above average | |
| quality but with invasives | , present. Lysm | achia numn | nylaria | COVETS | the | 484 | level. A difficult | |
| plot botanically speating | e with so many | gram moids | and a | Les P | 1 Ygar | LMS. | The Acers near | |
| The 40m centerline were Warner Mr. rather than changed based mostly on samara length. | Method Broad | ないと言 | change | d base | k mes | Hy or | samara length | |
| They are deceptive and might warranta closer look next time. + 1 to A. = saccharinum | might warranta | 1 c/0ser | look ne | ナナア | | TA | A. == saccharinum | |
| | | | | | | | | 1 |

CLEVELAND METROPARKS Plant Community Assessment Project name: QZ 8C 2015

Project Label: PCAP Intensive modules: 4 Plot configu C2015 Plot no.: 1078
Plot configuration: 2 x 4 Plot area (ha): .08 Page t of 3

| | | | | | | | | | (| | | | | | | Muhly | THE OTHER WHAT | | | | | Vilasus? | 5 | | | | | | | | |
|-----|--|----------------------|---------------------|-------------------|--------------------|---------|---------|-----|--|------|-------|-----------------------|---------------|------------------|---------------------------|----------------------------|----------------|--------------|-------------------------|---------------------|--------|-------------|-------------------|----------|---------------|------------------------------|----------------------------|-------------------------|--|-------------------|----|
| 2 | 3 | 2 | 2-2 | 2 | 2 | 0 | 1-h | 214 | 23 | 5.5 | 1-h=h | W | N | 2.4 | 2 | <u>w</u> | <u> </u> | 2 | 2 | ν. W | Ţ | 6 | 6 | 7 | S H (F)(A) Br | Strata - Cov. entire plot | | Metroparks | Plantaland | <u> </u> |) |
| | | Boehmeria extindrica | Hackelia virginiana | TRIFOLIUM REPUENS | LOTUS CORNICULATUS | S CKM | TEFLORA | _ | 4 Toxicodendron radicans | H | - | Polygonym Virginianum | p. (scedling) | indinacea | Plantago major translossa | Hoacear & Mulhyla Maryland | | 1 den | Fraxinus sp. (seedling) | 5 LONICERA MORROWIT | anaden | Villesus | > X punctatum ckm | LYSIMACH | Br Species | ot . | | entire plot | Br = Browse Level. Use cover classes to describe amount of browse per species over | | |
| | | | | | | LSh WX7 | | | | | | | <u> </u> | K CKM 453 | CKM. MS) | X CKM4S5 | | SRE 17-16-15 | E | | | CKM MAN 452 | X CKM456 | | c Voucher# | %unveg. litter (bare litter) | %unveg. ground (bare soil) | %unvegetated open water | %open water | Estimate for each | |
| 7 | 2 | 2 | 2 | 7 | 7 | 7 | N | 2 | N | W | W | W | U | W | ᅩ | 上 | E. | I. | r | H | 上 | T | 工 | 互 | depth | _ | _ | - | | 1 | 4 |
| J | W | 2 | 2 | N | 17 | ٢ | | 4 | 4 | Ut | 3 | 工 | 2 | ហ | _ | ㅗ | Σ | | ω | ㅗ | 4 | 6. | 7 | 7 | 8 | 2 | 7 | 0 | 0 | Ł | |
| | | 2 | | | | W | 7 | | ــــــــــــــــــــــــــــــــــــــ | | 17 | 7 | | W | | | | | | | | | -c. | 7 | depth | | | | Oeps. | 1 | _ |
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| 100 | 14 | | | - | | 7 | | | CV. | 2 | | y. | | | | | | | | | 2 | | 2 | | PB1 COV | | | | Acc Ladec | | + |
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| Project Label: | Project Label: PCAP Project name: 02 BC 2015 | Project name: 02 BC 2015 | 07 | | 20/2 | 201100 | | Plot no.: 1078 | D | 07 | 30 | | | | • | | | 3 |
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| Total modules: | 80 | Intensive modules: | | | Plot configuration: | onfig | urati | ı E | 7 | T X | | 1 | | Plot : | Plot area (ha):_ | (ha): | .08 | |
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| 3 | | Estimate for each | 12 | I | 7 | 12 | 3 | | W | 7 | 6 | - | 6 | 12 | 7 | Н | 7 | |
| | Br = Browse Level Lise cover classes to | intensive module: | depth | ON I | 5 | | depth | D . A00 | depth | 2 | depth | Q. | depth | NOO. | depth | AOO | depth | |
| Cleveland | describe amount of browse per species over | %open water | À | | | | 1 | 605 | | | _ | = | growing. | | 1 | | | |
| Metroparks | entire plot | %unvegetated open water | È | _ | 100 | | 1 | | 10 | Ц | -1 | | | 1 | | | | |
| | | %unveg. ground (bare soil) | Ē | | 000 | | | 200 | | | _ | | | 300 | | 300 | | |
| Strata - Cov. entire plot | | %unveg. litter (bare litter) | _ | | 100 | | _ | 900 | 203 | | _ | | | | 1 | 8 | | |
| S H (F)(A)Br | Species | c Voucher# | depth | 007 | depth | COV | depth | D 400 | depth | QQ | depth | <u>ş</u> - | depth | AGO | qepe | Ags | dept | |
| 2 | Ulmus sa (seedling) | | 2 | 2 | | | _ | | | | | | | | | 7 | 2 | |
| 2 | X | X CVM459 | 7 | 7 | | | h | 2 | | | 2 | 4 | | | | | ĝ | |
| 2 | Autor laterations | | 4 | 17 | | | | | | | W | 7 | | | 2 | 7 | | |
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| 2 | Geum sp. | | | | | agir a | 6 | 3 | 1 | | W | W | | | 7 | ٤ | | |
| 华 | Acer saicharum | | | | | | | Ψ. | | Ĺ | | 5 | | | | | | |
| 4 | Lersia virginica | | | 8 | | - | - | - | 2 | b. | | F | 6 | | 7 | | W . | |
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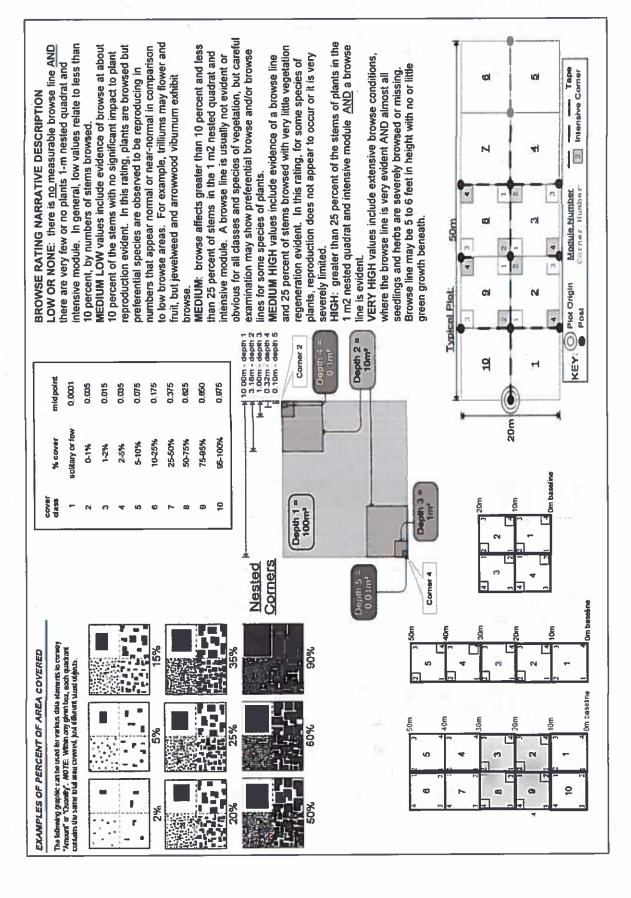
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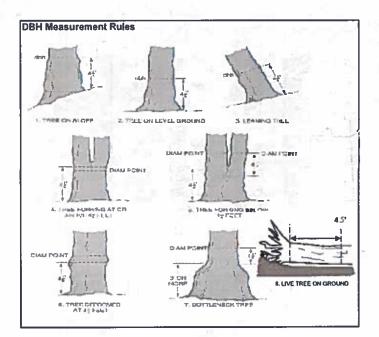


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| | Total modules: | 00 | PCAP | Intensive modules: 4 Plo | 4 02 | 7 | Plot configuration: | onfic On | 1 2 | Plot no.: | HX9 | 9/0 | d | | | <u>D</u> | Plot area (ha) | (ha) | | 200 | | |
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| CLEVELAND METROPARKS Plant Community Assessment Program Tree Cover Data Sheet Project Label: PCAP Project name: F | | lot | Species | | | | | | | | | | | | | | | | | |
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|---|-------------|----------------|-------------------|-----------------|-------------------|--------------------|----------------------|---------------------|----------------|-----------------|----------------|-------------------|-------------------|----------------|-------------------------------|-----------------|-------------------|----------------------|----------------------|------------------|----------------|----------------------------|--------------|-------------------|--------------------------|-----------------------------------|--|--|
| 3aCM PCAP Natural Woody Stem Data Sheet year 2 0 xts last revised 5/29/2012 iim | 3 | 5 agr socharum | MANAGED IN STREET | S Quercus rubia | 4. Standing David | 4 Cana Coldiformis | 8 Ribus occidentalis | 13/ROSA MILLTIFLORA | 3 dar saidhawm | 3 Standing Dead | 3 Continues of | 1 Inderes benzoin | 2 Lindera benzoin | 2 Katalaus sp. | 2 LONICERA MANAGEMAN NO BROWN | a Standing Dead | A ROSH MULTIFIORA | 1 Rubus occidentalis | Y I IGUSTRUM VULLARE | Y REA MULTIFLORA | 1 Shading Dead | VIONYSRA CHERONO MORROWILL | V Jughas aga | L dindera benzoin | med # species c voucher# | \ | Explain subsample (additional room on back): | CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Project Label: PCAP Project Name: 038 3015 Plot No.: |
| last revised 5/29/2012 | : | | archaniaum ? | | | | | • | | | | | | | - | | :1 | • | • | • | | | | | her# browsed sample | _ | | Pn |
| Ī | | | | | | | | | | | | | | | | × | | | | | | • | | | nple clumps 0-<1 | # | | nt Program Natural Wood Project Name: QBB 2015 |
| | | | | | | | | | | | • | | | | | • | | | | | | | | | G | size class (cm) woody stems >1.4m | | Woody Stem Data |
| | | • | | | | _ | | | | - | | | | | • | | | | | | | | | | <15 15 | in a | | ta Sheet Plot No.: 1078 |
| Natural Regularyes M | | | : | | | | | | | | | | | | | • | | | | | | | | | 20 <25 25 | 7 | | Page: |
| Natural Resources Management FORM NR/2010-03s | | | | | | * | | | | | | | | | | | | | | | | | | | 30 - <35 35 | ē . | Back | of Specia |
| 22010-039 | | | 535,443 | | 413 | | | | | | | | | | *** | | | | | | | | 43.0 | | >40 (record each tree | : | | Sleveland Metroparks |



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
- Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

C

D

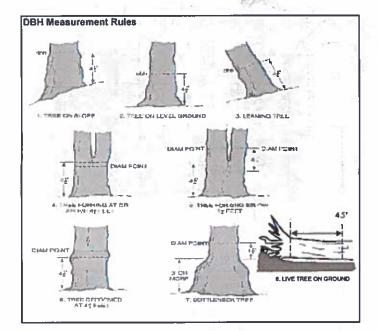
E

ASH CANOPY BREAKUP CONDITION (for dead trees):

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back) Elar sachaum KOSA MULTIFLORA ROSA MULTIFICARA Buthing 250 particular OS SAINY Xi buraum prunifalium Standing Dad Standing Dead Ulmus analysis rulora larthunocissus quinquella lita ROSA MULTIFLORA Toxicaterdron legicars Standing Dead Cradardias so. ROSA MULTIFICARA Standing Oped Out sp. (seedling) Toxicadiration radicons Taxicadendron radicant ONICERA MORROWI inharqus sp. ratacous so. lia amunicana species Project Label: PCAP voucher# I browsed 0-1.4m stems or super % sub Project Name: QBC2015 clumps shrub size class (cm) woody stems >1.4m 0-<1 ×. 1-<2.5 2.5-<5 Plot No.: 1078 5-10 10 - <15 15 - <20 20 -<25 Page: 2 25 - < 30 30 - <35 으 Cierciand Metroparks 35 - <40 5 **139** >40 (record each tree)



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to

10













ASH CANOPY CONDITION

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В

C

D

E

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- E: Central stem still standing.

| Г | Т | | | Ī | | П | T | | T | П | | • | io | | 99 | | 7 | <u>_</u> | Ė | S | 1.5 | | - | 82 |
|----|----|----|----|----|----|---|--------|----|----------|---|---------|-------------|--------------|--------------|-------------|-------------|-------------|------------|-----------|-------------|--------------|--------------|------------|-------------|
| | ┡ | | | L | | L | | L | L | L | | 7 | 4 | 7 | 13 | 6 | 2 | 6 | 6 | W) | w | શ | 2 | 2 |
| 25 | 24 | 23 | 22 | 22 | 20 | 6 | 6 | 17 | 5 | 5 | ri A | 3 | 12 | = | 6 | 60 | œ | 7 | œ | Ch | 4 | ω | 2 | - |
| | | | | | | | | | | | | Fraginusso. | Fravinus só. | Fraxinus so. | Fraxious so | Fraxinusso. | Faxinus so. | Faxiousso. | Faxinussa | Fraxinussp. | Fraxious so. | Franious sp. | Faxidi560. | Faxious so. |
| | | | | | | | | | | | | | | | | 7. | | | | | | - | | |
| _ | | | | | | | 100000 | - | - | | | | | | | | | 111 | | | | | | E |
| | | | | | | | | | | | | | 365 | | | 13 | | _ | | | | | | |
| | | | | | | | | | | | 2270 | 115 | C10 | 15.0 | 36 | 9.5 | 20.2 | t re | 0.00 | 28.6 | 22.3 | 856 | 24.5 | 275 |
| | | | | | L | L | | | | | | 1 | ı | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ı | t | 1 | 1 |
| | | | | | | | | | | 1 | | 5 | 5 | 5 | 5 | টা | 5 | G | 5 | 5 | 5 | G | G | Çı |
| | | | | | | | | | | | | C | 6 | С | C | C | C | C | 0 | C | D | C | В | 0 |
| | | | | | | | | | | | | | 6 | 7 | 7 | द्ध | 8 | 12 | 0 | ES. | 8 | 8 | 4 | ٩ |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | hata | | | 0 | 0 | 0 | ٥ | 0 | | | 0 | 0 | | | | 0 |

Baseline

Baseli

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1; Early detection/ | Rapid response | | Pre | sence | | GPS | |
|---------------------------------|---|--|----------|--|--|----------------|--------------|
| Hel It Letty detection | Itapia response | NE | SE | SW | NW | | Presence |
| Microstegium vimineum | Japanese stiltgrass | 111 | - | | | | X: yes |
| Ranunculus ficaria | Lesser Celandine | | + | 1 | | 1 | |
| | Black Swallow-wort | | 1 | † | | | ┪ |
| | Flowering Rush | | + | + | | | |
| Heracleum mantegazzianum | Giant Hogweed | | + | + | | | _ |
| Tier 2: Assess a | | 100 | # of | Plants | 3 0 | comments | |
| Her Z; Assess a | 5 Needed | NE | SE | SW | NW | Constitutio | # of Plants |
| | late and the same of the same | SVI | DE. | 244 | IVVV | | 1: 1-10 |
| Acer platanoides | Norway Maple | - | - | + | | | 2: 11-50. |
| Ailanthus altissima | Tree of Heaven | | | - | | | 3: 51-100 |
| onicera japonica (vine) | Japanese Honeysuckle | | +- | - | \vdash | | |
| | Purple Loosestrife | - | - | - | \vdash | <u> </u> | 4: 101-1,000 |
| <u> </u> | Bishop's Goutweed | | - | ₩ | | | 5: >1,000 |
| Celastrus orbiculatus (vine) | Asian Bittersweet | <u> </u> | ┸ | ╄ | | | |
| forilis sp. | Hedgeparsley | <u> </u> | ₩ | | | | _ |
| Conium maculatum | Poison Hemlock | 1 | ↓ | | | | _ |
| Rhamnus cathartica | Common Buckthorn (shrub) | | | | | | _ |
| Berberis thunbergii | Japanese Barberry (shrub) | | | | | | _ |
| Alnus glutinosa | European Alder | | | | | | |
| Dipsacus laciniatus | Cut-leaf Teasel | | | | | | |
| Elaeagnus umbeliata | Autumn Olive (shrub) | | | | | | |
| Lonicera maackii | Amur Honeysuckle (shrub) | \Box | | | | | |
| Euonymus fortunei | Wintercreeper | | | | | | |
| Tier 3: Presence is | | 1000 | # of | Plants | | comments | 3 |
| | | NE | SE | SW | NW | | # of Plants |
| Convallaria majalis (G-cover) | Lily of the Valley | | | | | | 1: 1-10 |
| | Crown Vetch | | | | | | 2: 11-50. |
| Eleutherococcus pentaphyllus | Five-leaf Aralia (shrub) | | | | | . | 3: 51-100 |
| | Japanese Pachysandra | | 1 | 1 | | | 4: 101-1,000 |
| Philadelphus coronarius | Mock Orange (shrub) | | | + | | . | 5: >1,000 |
| | Lungwort | + | + | _ | + + | | |
| Rubus phoenicolasius (G-cover) | Wineberry | - | + | + | | | _ |
| | | \vdash | +- | + | | | \dashv |
| Iris pseudacorus (wetland) | Star of Bethlehem | \vdash | +- | + | + | <u>-</u> . | - |
| Ornithogalum umbellatum | | ₩ | - | + | | | - |
| Viburnum opulus var. opulus | | $\overline{}$ | +- | | + + | | \dashv |
| Viburnum plicatum | Doublefile Viburnum (shrub) | - | P-22 | | | | |
| Tier 4: Widespread | and abundant | 015 | | sence | 2004 | comments | # of Plants |
| | | NE | SE | SW | NW | | 1: 1-10 |
| Alliaria petiolata | Garlic Mustard | ┼ | - | - | 1 - | | |
| Ligustrum vulgare | Common Privet (shrub) | - | - | + | + | | 2: 11-50. |
| L. morrowii, L. tatarica 🕟 💮 | Bush Honeysuckles (shrub) | 1 | - | | | <u> </u> | 3: 51-100 |
| Phalaris arundinacea | Reed Canarygrass | - | 4 | + | | <u> </u> | 4: 101-1,000 |
| Phragmites australis (wetland) | Phragmites | ₩ | <u> </u> | 1 | | | 5: >1,000 |
| Polygonum cuspidatum | Japanese Knotweed | _ | 1_ | | \bot | | |
| Frangula alnus | Glossy Buckthorn (shrub) | | | | 1 | | _ |
| Rosa multiflora | Multiflora Rose (shrub) | | | | | | _ |
| Typha angustifolia, T. x.glauca | Cattails (wetland) | | | | | | |
| Cirsium arvense | Canada thistle | T | T | | | | |
| Dipsacus fullonum | Common Teasel | | 1 | | | | |
| Hesperis matronalis | Dame's Rocket | \top | 1 | | | - - | |
| Vinca minor (G-cover) | Periwinkle | | \top | | 1 1 | | |
| THIS TIME (O-COVE) | Fr minimum | | | | | | |

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M, L)

| 10 | 9 | 8 | 7 | on. | თ | 4 | ω | 2 | | mod # | | C.C.E. |
|----|---|-----|---|-----|------------|---|---|---|--------------|---|---------------------------------|---|
| | | | | | | | | | None Present | species | | Project Label: PCAP Project Name: OR 2015 Post and Pathogens Data Sheet |
| | | | | | | | | | | voucher# | | r Communn P |
| | | | | | e r | | | | | shrub | ## / | PCAP |
| | | | | | v . | | | | | 0소1 | size class (cm) woody stems >1m | nt Progran |
| | | | | | | | | | | 2 1-<2.5 | cm) woody | Project Name: OJB 2015 |
| | | | | | | | | | - | 2.5~5 | stems >1n | OJAK J |
| | | | | | | | | | | 5-<10 | | 75 |
| | | N E | | | , | | | | | 5 6 10 - <15 15 - <20 | | gens Da |
| | | | | | | | , | | | | | Plot No.: |
| | | | | | | | | | | 7 20 - <25 | | 8401 |
| | | | | | | | _ | | | 8 25 - <30 | | , 1 |
| | | | 6 | | | | | | | 9 30 - <35 | | Page: |
| | | | 1 | | | | | | | 10 35 - <40 | | _ Co |
| | | | | | | | | | | 7 0 9 10 11 20 - <25 25 - <30 30 - <35 35 - <40 >40 (record each tree) | | © Cleveland Metroparks |
| | | | 8 | | 880 | | - | | | | | _ |

* IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVEN THE NOT INFECTED

| Strata | Infected (H,M, or L) | * Write None Present if no evidence: | |
|--|----------------------|--------------------------------------|------------------------------|
| Tree (size class 3 or above) | | Beech (Fungus) | NONで Asian Longhorned Beetle |
| Shrub (size class 2 or below including shrub clumps) | | Hemlock (HWA) | Other Pest or Pathogen |
| | | Nort Walnut (Thousand Canker) | ker) |

| SRE_C |
|-------------|
| CMP |
| ξ |
| Forest |
| Pest |
| and |
| Pathoge |
| n Data.xls |
| 188 |
| revised |
| 7/2/2015 jj |
| 3 |

High = more than 50% of leaffneedle cover exhibiting symptoms

Medium = Less than 50% of leaf/needle cover exhibiting symptoms

Low = Only a few leaves or branches are exhibiting symptoms

Severity

| Project Label: PCAP Project Name: 038 3015 | PCAP | Project Name | Project Name: DBB 3015 | Plant Cover and Ea | rth Surface | | Plot No.: | 1078 |
|--|---|--|---|--|---|-------------|---------------------|------------------|
| STANDING BIOMASS (required for emergent wetlands) collected in 0 Im clip plots (32:32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected | uired for emerges from corners and score calculation. | t wettands) collected 3 in each intensive C?=check when | | CLASSIFICATION | 2 | - | | |
| Module # | C? | Corner Corner | | TIT - excellent, Fit and Confidence | Confidence | | | |
| | | _ | 19.5 | Hydrocomorphic data (WETLANDS ONLY) | WETLANDS ON | 2 | | |
| | | | | DEPRESSION | | | Fit Conf | ľ |
| 200 | = | 177 | | DIMPOUNDMENT o Beaver o Human | Beaver o Human | | Fits Confs_ | * |
| | | | | o RIVERINE o Headwater o Mainstein o Channel | iter o Mainstein o | Channel | Fil=Conf= | ľ |
| | | U- | | OPE (ground water by drology or on a physical slop) | rdrology or on a physi | al slope | Fit Conf | ľ |
| | | | | o FRINGING o Reservoir o Natural Lake | oir o Natural Lake | | Fit Conf | " |
| | | | | u COASTAL (specify subclass) | bclass) | | Fit= Conf= | 117 |
| | | | | n BOG (strongly, moderately, weekly ombrotrophic | ately, weekly ombro | drophic) | Fil= Confr | a a |
| | | | | Ohio EPA VIBI Plant Community Class (WETLANDS ONLY): | Summanity Class C | WETLANDS OF | STATE OF THE PERSON | |
| | | | | OREST Lamp forest to bog forest to forest seep | est to bog forest to fo | usy seeb | L | 1 |
| | | | | o SHRUB o shrub swamp o tall sh, bog o tall sh fe | | tall sh fen | Fit Conf | * [*] |
| feature is absent or functionally absent from the wetland feature is present in the wetland in very small amounts or if more common, of few quality feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality feature is present in moderate or greater amounts and of highest quality | ally absent from the land in very small ar de amounts, but not ide or greater amou | wetland nounts or if more common of highest quality, or in its and of highest quality | oon, of low quality smeal emounts of h | ghest quality | | | Ŧ | |
| | no. of | no. of | no, macro, | c.w.d cour | c.w.d court for pieces with minimum im length | cw.d | microhab. | microhab. |
| | tussocks | hummocks uplands (Tip-Ups) | depressions | (2-12 cm) | (12-40cm) | ¥8 cm | interspers. | |
| | depth 3 | depth 2 | depth I | depth 1 | depth (| depth 1 | depth 1 | STOPE |
| | lxim | 3,16x3,16m | 10x10m | 10x10m | 10x10m | 10110 | 10x10m | 10x10m |
| med# corner | (count) | (count) | (count) | (count) | (count) | (oount) | (rank) | (rank) |
| a | 0 | 0 | 0 | 10 | 0 | 0 | ຍ | 0 |
| 3 | 0 | 0 | 0 | 5 | CJ | 0 | B | |
| 6 | 0 | 0 | 0 | DT DT | | 0 | R | |
| +7 | 0 | 0 | 0 | 9 | 0 | 0 | B | 26 |
| | | | | | | | | - |
| | | | | | | | | |

| " Terrain Shape Index (site microtopographic shape) | · Landlom l | +3 | +2 | +2 | <u>*</u> | <u>.</u> | ±_ | | | | MLLED OU | McNAB I |
|---|---|----------------|--------------|----------------|------------------|--------------|------------------|-----------------|-----------------|-------|--|---|
| ape Index (| ndex (positio | +3 5 degrees | +270 degrees | 225 degrees | + I \$0 degrees | +135 degrees | +90 degrees | + 15 degrees | Al aspeci | | T USING O | IDICES (|
| Whe microtope | andlom lindex (position within landscape) | WW | W | WS | 'n | SE | (II) | NE | Z | | IS PROGRA | degrees) - |
| ographic shep | (cape) | | | | | | | | | LFI | M- DO NOT | MCNAB INDICES (degrees) + for up - for down |
| . | | | | | | | | | | TSI** | TALLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] | or down |
| | | | away. | e) e of person | recorders eye lo | TSI measure | angles formed by | horizon. TSI is | LFI is might of | | HELDI | |

Oleveland Websparts Page: 1 of 1

CROWN COVER (DENSIOMETER) Make 4 readings per module facing N. S. E. W. Place dol count in correlanding space. (4 dost per grid square)

| + 7 | 26 | <u></u> | 12_ | Mediale |
|-----|----|---------|-----|---------|
| t | 0 | 0 | _ | z |
| 2 | શ | 6 | 88 | Ç5 |
| # | - | hi | 9 | m |
| 4 | 5 | 2 | 6 | * |

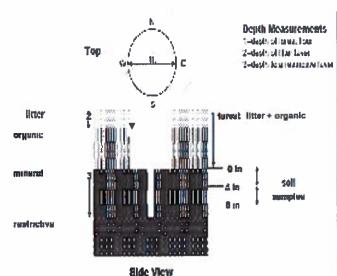
NOTE: bussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

COVER BY STRATA

| STRATUM | GENERAL FORM |
|------------------------------|---|
| Tree (generally >5 m) | Tree (overstory), very tall shrubs*, tiana, epiphyte) |
| Shrub (generally 0.5 to 5 m) | Tree (sapting), shrub, tiana, epiphyte) |
| Herb (Field) | Herb, dwarf-shrub**, tree (seedling***) |
| Floating | Floating |
| Aquatic (submerged) | Submerged |

"Very tall shrubs are sometimes included in the tree stratum
"Can also include seedlings of shrubs, i.e, all shrubs <0.5m

^{***}Tree seedlings are often defined as up to 1,4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



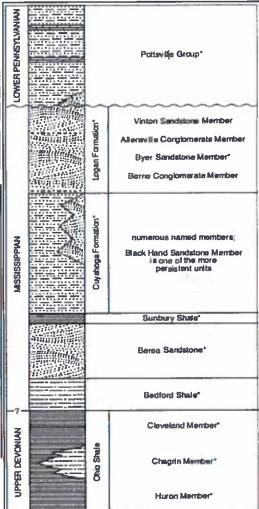


FIGURE 3-33.—Generalized section of Upper Devenian, Ministrynian, and Lower Pennsylvanian formations in northeastern Ohio. Asteriaks indicate units that are fossible rous. This companies section represents about 400 meters of rock exposed across the area. The section is not to cale, but the thicknesses indicated are propuritional. The term "Waverly" is used in the older literature in refer to Ministrypian rocks in Ohio. Some real-course use the European norm "Carboniferous," which encompasses the Ministrypian and Pennsylvanian Petrods of the U.S. Many, units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sametrone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Colma (1978) for more information on Ministrypian rocks in Ohio. See figure 3-16 for explanation of took types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 0382015
Plot No.: 1078

(P) Olicinchand Methoparies

Page: 1 of 1

SOIL PIT DESCRIPTION: Excavate 20 cm plug wih shove! Describe using Munsell chan, visual exam, texture, and odor.

Soll pit module #

(one per entire plot)

20 cm g cm matrix color tydro. cond *** redox features** stoor prix extrare xid roots mottle ottle color dox features** atrix color dr cond *** tile color I S M D < S M D z z z

refer to texture classes on reverse side

** e.g. hydrogen sulfide odor, gleying, etc.

astings, middena) indundated S-saturated M-moist D-dry oles: include evidence of earthworms (worms,

moot: None present moo3 None present mod 6 : Nord present MOD a Now present

> intensive module and composite the sample SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each

| DEALWAGE* DESCRIPTION OF SOMEWHAT EXCESSIVELY OF WELL drained Description of the Community | Parent Material | Depth to rest. Layer | Landform type: | Soil Series Source: Ohio Soil Survey | Soil Series/Type: | Web Sail Survey Informations | 2,3,8,9 composited A | Soil Collection Module Herizen (A. B. C) |
|--|-----------------|----------------------|----------------|--------------------------------------|-------------------|------------------------------|----------------------|--|
|--|-----------------|----------------------|----------------|--------------------------------------|-------------------|------------------------------|----------------------|--|

SOIL DEPTH MEASUREMENT: Measure to the neares

0.1 cm in center of intensive modules. If >30.5 cm, record as >30

| 4 | 6 | B | n | modif |
|-----|-----|----|-----|------------------------------------|
| h:0 | 02 | 02 | 02 | 1 litter+ organic depth (cm) |
| 0.4 | 0 3 | 02 | 0.2 | 2 litter depth (cm) |
| 1 | 1 | - | 1 | water depth (cm) |
| 1 | 1 | 1 | 1 | depth sat soil (cm) |

| Underlying Earth Surface* Ground Co | Surface" | Ground Cover | |
|-------------------------------------|----------|------------------------|--------|
| (NG001 - 18mg) | percent | (Each ≤ 100%) | percen |
| Histosol | ١ | Coarse Woody Debris*** | 00 |
| Mineral Soil | 001 | Fine Woody Debris**** | 1 |
| Gravel-Cobble* | - | Litter | W |
| Boulder** | 1 | Duff (Ferm.+ Humus) | 0 |
| Bedrock | 1 | Bryophyte- Lichen | |
| • Gravel-Cobble = 1/16-10* | 1/16-10* | Water | 0 |
| **Boulder = > 10 in | in | Bare Soil | ~ |
| *** >5 cm in diameter | neter | Road/Trail | 4 |
| and of the diameter | meter | Other | 71 |

3 Bridle 3 Hiking sanctioned

Bootleg unsanctioned

All Purpose ype

cord type and cover for each RAIL INFORMATION:

%Cover

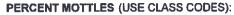
| es COV | |
|---|---|
| 報用 | l |
| Buist S AS | |
| COVER BY STRATA | |
| COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 | |
| o G | |
| e x | l |
| 3 3 | ľ |
| | |
| % | |
| | |

| (Aquatic)* | (Floating)* | Herb () - 10 | Shrub 1.0.5.0 | Tree 5,0. 1 | Strata Height Range (m) |
|------------|-------------|--------------|---------------|-------------|-------------------------|
| - | 1 | 98 | 42 | 72 | Total Cover (%) |

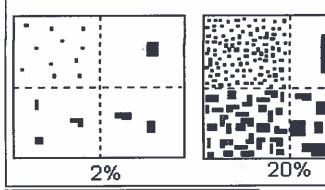
rooted and floating or slightly emersed

SEE BACK OF PAGE FOR "TYPICAL"STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. ** submersed, most plant mass below surface

| a < plot size | a 1-3 x plot size | a 3-10 x plot size | 10-100 x plot size | n > 100 x plot size | □ >600 x plot size | STAND SIZE |
|---------------|-------------------|--------------------|--------------------|---------------------|--------------------|------------|
| í | н | 35 | t sizze | ize | 120 | E. |



| Class | | code | Criteria: % of |
|--------|-------|-------|----------------------|
| | Сопу. | NASIS | Surface Area Covered |
| Few | ſ | # | < 2 |
| Common | С | # | 2 to < 20 |
| Many | m | # | ≥ 20 |

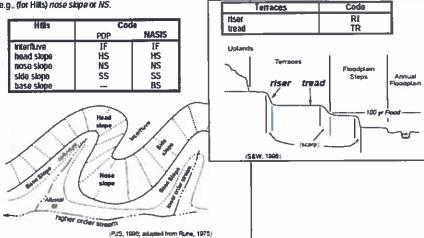


SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper, the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

- 0= Organic
- 1= Loamy
- 2= Clayey
- 3= Sandy
- 4= Coarse Sand
- 9= Not measured make plot note

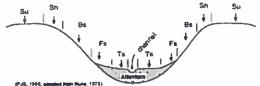
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique tors are available for Hills, Terraces, Mountains, and Flat Plains;

e.g., (for Hills) nose slope or NS.



Hillstope - Profile Position (Hillstope Position in PDP) - Twodimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

| Position | Code |
|-----------|------|
| summit | SU |
| shoulder | SH |
| backslope | BS |
| footslope | FS |
| toeslope | TS |



HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.)

UPLAND: Not a wetland. Very rarely flooded.

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season . Equivalent to Cowardin's Saturated modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

SEMIPERMANENTLY FLOODED (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently "behood

UNKNOWN: The hydrologic regime cannot be determined from the available information.