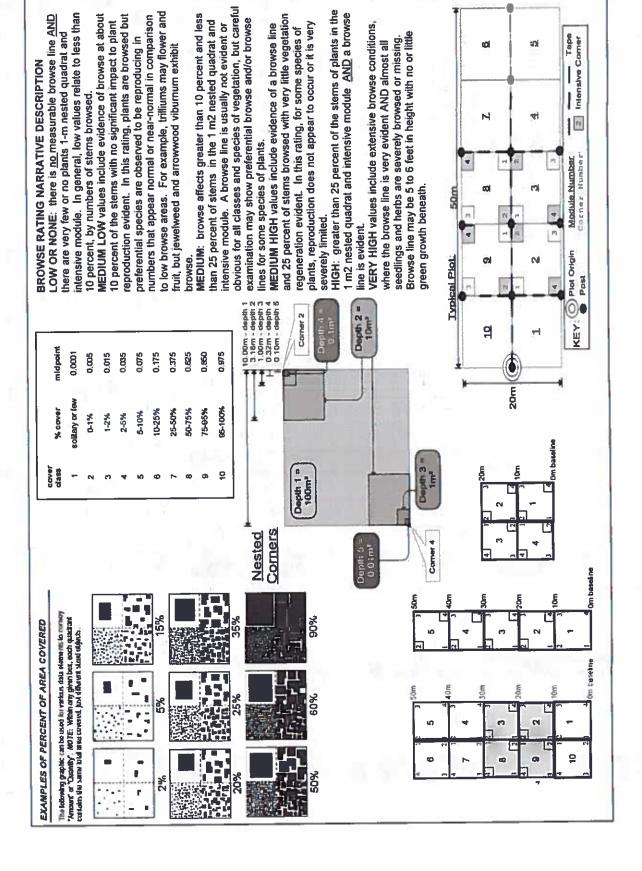
| CLEVELAND METI | ROPARKS Plant Community Assess | ment Prog | gram: | Quality Control Form |
|---------------------------|--|---|-----------|--|
| Project Label: | РСАР | Pi | ot No: | 3484 Date Sampled: 8/10/15 Lead: CKM |
| | | 48.00 | _ | Comment required if item answer is NO |
| Parking/Access outside | e of Park Boundaries | Y | (N) | If yes, write details in Comments section below |
| Field journals complete | · | (Y) | N | ar yes, with details in Comments section below |
| Site sketch made on 1: | | T (S) | N | |
| Check cover page | X-axis Bearing of plot recorded | V | N | 2000 |
| Check cover page | GPS coords. Recorded | (Y) | N | |
| | North direction recorded | (Y) | N | |
| | Photographs taken? | (A) | N | |
| | Relocated Pins Mapped | (Y) | N N | |
| Plot No., Date agreeme | | T TO | N N | |
| Header data completed | • | (4) | N N | |
| 1 | in all Intensive modules | M | | |
| 14 | | M | N N | |
| Browse Level By Spec | | 7-3 | N N | |
| Woody stem quality co | | (<u>y</u>) | N | Check every line and cross check with the Tree Cover Sheet |
| Invasive plant quality of | iontrol check | Y | N | NA- |
| Ash trees mapped | | (Y) | N | |
| Completed Forest Pest | | | N | |
| Cover by Strata? (confi | | | N | WA |
| Soil samples collected | | | N | |
| Cross check 2010 info | | (V) | N | Highlight any changes from 2010 information |
| | atasheet with initials and number | <u>D</u> | N | |
| Vouchers labeled on co | Ilection bag | (A) | N | |
| Pink flags removed | · | (V) | N | |
| Data sheet QA before ! | eaving site? | (Y) | N | |
| Common equipment re | turned to tub. | Y | N | |
| Data sheets scanned? | | _ | | Enter date to left |
| Final data sheets scann | ed? | ļ | | Enter date to left |
| Buffer Widths measure | ed? | Y | N | popular = |
| Web Soil Survey | | Y | N | |
| Voucher Location | Refrigerator | Y | N | (197 ST 177 |
| (# vouchers collected) | Press (#) | | | Enter number to left |
| CKM341- | Drier | Y | N | |
| 341 | Identified | Y | N | |
| 511 | Mounted | Y | N | |
| | Thrown away | Y | N | |
| | | | | |
| GRTS point verificat | ion: Is plot sampleable? | | | |
| □ Yes | Original GRTS point is sampleable | | | |
| □ No | Original GRTS point lands in a non-sa | ampleable : | area (fi | III in externey below) |
| 2 110 | Dent falls in a water (i.e. river, tal | | area (ti | n meangery below) |
| | Managed mowed area (i.e. golf or | 3.5.5. | rea, righ | it-of-way) |
| | ☐ Paved area (i.e. parkinglot, road) | | | |
| | Unsafe to sample (i.e. steep slope) | | | <u></u> |
| | □ Other | | | |
| Additional Comments | <u> </u> | 1 a C 4 | | |
| All pins c | except som on | 16++ | SIC | le tound |

| CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | ommunity Assessment F | Program - Backgrou | nd Data S | Sheet | | | | (A Clewlund Mulmparks |
|---|---------------------------------------|--------------------------------|---|----------------------------------|-------------|--------------|---|-----------------------|
| Project Label: | el: PCAP | Project Name: O2 WC ZO15 | 02 W | 51023 | | Plot No.: | 3484 | Page 2 of 2 |
| MODIFIED NATURESERVE CLASS* | | | DISTU | DISTURBANCES | | | | |
| CODE (on separate form): | Fit- Conf= | | type | severity** | yrs ago 🧖 | % of plot | description | |
| A COA | | | Human | | | | | |
| TOF | 0 | | Natural | | | | | |
| COMMUNITY NAME: | | | Fire | | | | | |
| 1 - L - V | | 0.00 | Cut | _1 | 10+3 | M | Old cut branches in | s in plot |
| Why-Oak brest | | v | Animal | 3 | 0 | 00 | Deer browse | - |
| | | | Other | | | | | |
| HOMOGENEITY | | | **L=low | ML=med low | , M=med, } | √H=med I | **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high | |
| Homogeneous a Compositions | Compositional trend across the plot | | Current | Current Land Use: CMP | MP | | | |
| □ Conspicuous inclusions □ Irregular/pattern mosaic | em mosaic | | Former Land Use: | and Use: | | | | |
| | HYDROLOGIC REGIME* | GIME* | | | | | | |
| | Upland (seldom flooded) | D Intern | D Intermittently flooded | papa | | | | |
| SALINITY* | □ Intermittently/seasonally saturated | | □ Semipermanently flooded | , flooded | | | | |
| a Saltwater | (seldom flooded) | o Perm | Deminiently flooded | ded | | | | |
| D Brackish | Permanently/Semipermanent. saturated | | Tidal/Seiche flooded daily | ded daily | | | | |
| a Fresh | (dry <1/yr, seldom flooded) | | VSeiche floo | Tidal/Seiche flooded monthly | | | | |
| Upland (n/a) | □ Occasionally flooded (<1/yr) | | //Seiche floo | □ Tidal/Seiche flooded irregular | | | | |
| | □ Temporarily flooded | (e.g. | (e.g. wind, storms) | ns) | | | | |
| (by default unless plot is a wetland) | | □ Unknown | nwor | | | | X | |
| Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) | ness of plot to the stand, succes | ssional status, maturity, etc | c.) | | | | | |
| The plot is somew | hat un-evenaged | d. secondary | Spaces | Tonal Sp | Ecies | greh | as as Red 1 | Maple |
| and Cherry are present | t. Plat 15 mid | Slope, very | dry. | and h | 7 701 | . 6 S | I brows | - د |
| man extended of | pried. The Low | - L | / / | | 7 - | ž - | | |
| Constant the species /1st | | 1 myer 13 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Sparsk | ر م م | + + + | species 17st | |
| TTOM THE LOSI SAMPLING had | I'm had with | seneral things I did not find. | I sbi | p o | ナち | - 6 · | | |
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| | CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet Project Label: PCAP Project name: 02 WC 2015 | ent Program Specie Project name: | S Cover Data S | er Da | ta Sh | et | Plot | | 3 | 133 | | | | 70 | Page | 17 | <u>Q</u> | Н |
|--|--|----------------------------------|----------------|--------------------|---------------------|----------|------------|-----------|-------|-------|--|-------|-------|-----------------|------|-------|----------|------|
| | 10 | Intensive modules: | - | 2 | Plot configuration: | figura | tion: | tion: 2×5 | S | | | | ot a | Plot area (ha): | ha): | | | |
| | | | 8 | comer mod | d come | - - | corner mod | | | | | | | | | | | |
| | The state of the s | Estimate for each | \rightarrow | | | softia. | H | | 1 | | 4 | œ | 7 | _ | 4 | ۵ | 19 | 20 3 |
| | Br = Browse Level. Use cover classes to | | Н | cov depth | th cov | depth | VØ2 | depth | | depth | CBy | depth | ğ | de de de | 8 | depen | | g |
| | describe amount of browse per species over | e e | _ | 0 | 100 | _ | | | - | - | | 60 | - | | - | | _ | |
| | entire plot | %unvegetated open water | _ | | | - | 0 | | | | 0 | 9 | | -1 | 0 | | | |
| | | %unveg. ground (bare soil) | 12 | | | - | 1 | | | - | 7 | 2 | | - | 2 | | | |
| 7 7 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | Species | C Volicher# | - | 1 | | | į | | - | L | + | د | - | ŀ | ъ. | 100 | - | |
| <u> </u> | Smilax act multolia | | -1 | 4 | | <u>r</u> | Ŋ | 2 | | _ | ١ | N | | W | ַנע | ٨ | 9 | 18 |
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| 2 55 64 | a (| | N | | | | 10218 | | | | | | | | | | | |
| 2 55 | Sassafras albi | | 7 | 73 | | W | 2 | | | 17 | 7 | | | 1 | 2 | | | 74 |
| 2 5 5 | . Ny | | 2 | | | | | | 8 | | | | | | | | | |
| 4 5,5 | seedli | | 2 7 | 23 | | L | 2 | | | | | | | 5 | 2 | 7 | | |
| 2 5,5 | - | (KM34) | 7 2 | 1 | | | 2 | | | | | | Ε, | | | | | |
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| Z Z | Amelanchier sp. | | | 12 | | | | | | | 7 | N | | | | | | |
| ä | RHAM NUS FRANGULA | | _ | 212 | | | - | | | | | | | | | | ĮŮ. | |
| ä | Moss sp. | 2 | - 37 | | H | 2 | 2 | 7 | | W | 7 | 7 | | | | | × | |
| Z Z | | | | | W. | 2 | 2 | | | | | | 00000 | _ | W | | | |
| | | | | | 47 | | | 3000 | | _ | 2 | | | | 2 | 4 | | |
| | msd | | | | | | | | | | 2 | 3 | | S | 9 | | | |
| | Quercus sp. (seedling) | | 20 | | <u> </u> | | | | | 1 | | CA. | W. | _ | - | | L | |
| | tum bit | | _ | | | | | | | | | | Щ | | _ | | | |
| | Leers la virginica | | L | | IJ | | | | | | | - | | | | | | N |
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2 Showb

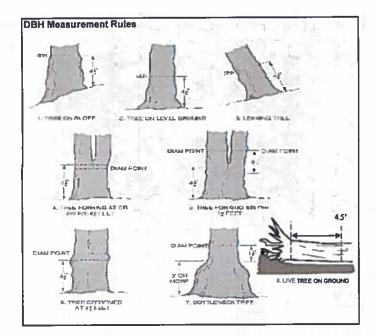


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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back) THOMS SECOND try your BY COCA BY YOR YOU 1000 Project Label: XAPPE OU STANKE PCAP voucher# 3 browsed 0-1,4m Stems # or super % sub Project Name: DZWC 2015 dumps shub # size class (cm) woody stems >1.4m 2 1-<2.5 25-<5 Plot No.: 3484 . • 5-<10 . • . 10 - <15 15 - < 20 20 - <25 Page: 25 - <30 30 - <35 Way reland Metroparks 35 - <40 ö 0.89 8.bh FH VS 41-65.1 >40 (record each tree) レン 500

250



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

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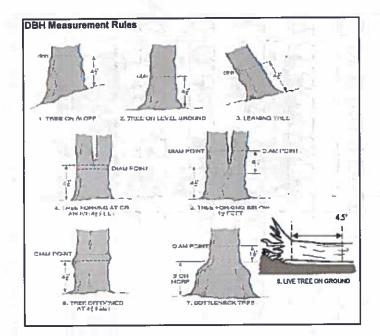
E

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

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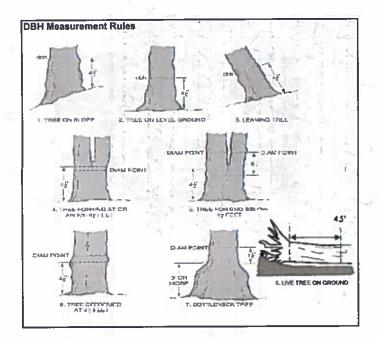
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| | | | | | | | | | 20.23 | W | | | 400 | | | | | | | | | | | 0-41 | size class (cm) woody stems >1.4m | | 6 |
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| | | 11.8 | | | | | | | | | | | | | | | | | | | | | | 2 1-<2.5 | m) wo | | 6 |
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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ | Rapid response | - 1 | | Pre | sence | | GPS | |
|---|--------------------------------|-----------------|--|--|--------------|--|--------------|--------------|
| The It carry acteurs in | | | NE | SE | sw | NW | | Presence |
| Aicrostegium vimineum | Japanese stiltgrass | | | | - | 1000 | | X: yes |
| Ranunculus ficaria | Lesser Celandine | 1 1 | | | 1 | 1 1 | | 7 |
| | Black Swallow-wort | | | | | 1 | · <u> </u> | ┑ |
| | Flowering Rush | | | | | | | ┪ |
| deracleum mantegazzianum | Giant Hogweed | - " | | † | | | | (C |
| Tier 2: Assess a | | | | # of | Plants | | comments | |
| Her E. Assess a | J11444468 | | NE | SE | sw | NW | | # of Plants |
| Acer platanoides | Norway Maple | | 114 | - | 311 | | | 1: 1-10 |
| Ailanthus altissima | Tree of Heaven | | | 1 | + | - | | 2: 11-50. |
| onicera japonica (vine) | Japanese Honeysuckle | | - | | +- | 1 1 | | 3: 51-100 |
| | Purple Loosestrife | _ | | + | | 1 | | 4: 101-1,000 |
| | Bishop's Goutweed | | | +- | - | 1 1 | | 5: >1,000 |
| Aegopodium podagraria (G-cover) Celastrus orbiculatus (vine) | Asian Bittersweet | | | + | 1 | | | 31,000 |
| · · · · · · · · · · · · · · · · · · · | Hedgeparsley | | | 1 | | - | | ┥ |
| Forilis sp. Conium maculatum | Poison Hemlock | | | + | \vdash | | · | \dashv |
| | | (shrub) | | + | ┼ | \vdash | <u> </u> | — |
| Rhamnus cathartica | | (shrub) | | + | +- | | | _ |
| Berberis thunbergil | | (SIN UD) | | + | + | + | | ┪ |
| Alnus glutinosa Dipsacus laciniatus | European Alder Cut-leaf Teasel | | | | +- | | | \dashv |
| | | (shrub) | | +- | - | | | \dashv |
| Elaeagnus umbellata | + | | | - | + | | | \dashv |
| Lonicera maackii | | (sh <u>rub)</u> | _ | + | ╂ | \vdash | | - |
| Euonymus fortunei Tier 3: Presence i | Wintercreeper | | | 4 -6 | Plants | | comments | |
| Her 3: Presence i | S OT INCERESC | | NE | SE | SW | NW | comments | # of Plants |
| Complete maialis (Company) | Lily of the Valley | | IAC | 36 | 311 | 1444 | 11000 | 1: 1-10 |
| | Crown Vetch | | ├ | | + | + + | <u></u> | 2: 11-50. |
| | | (shrub) | - | +- | + | 1 | . | 3: 51-100 |
| Eleutherococcus pentaphyllus | | (SIII UD) | | + | + | 1 1 | · | 4: 101-1,000 |
| | Japanese Pachysandra | (chrub) | \vdash | + | ╁ | 1 | | 5: >1,000 |
| Philadelphus coronarius | Mock Orange | (shrub) | \vdash | +- | + | + | | [J. >1,000 |
| Pulmonaria officinalis (G-cover) | | | | + | ╁ | + + | | _ |
| Rubus phoenicolasius | Wineberry | = | - | ┼─ | + | 1 | - | - |
| Iris pseudacorus (wetland) | | | ⊢ | - | + | 1 | · | - |
| Ornithogalum umbellatum | Star of Bethlehem | (check) | \vdash | +- | +- | + + | | \dashv |
| Viburnum opulus var. opulus | | (shrub) | \vdash | + | | + + | | - |
| Viburnum plicatum | Doublefile Viburnum | (snrub) | | Dan | sence | | | |
| Tier 4: Widespread | and adundant | 110 | NE | SE | SW | NW | comments | # of Plants |
| | le di Marand | - 10 | NE | 35 | 244 | 1444 | | 1: 1-10 |
| Alliaria petiolata | Garlic Mustard | (abar -1-1 | | - | + | ┿ | | 2: 11-50. |
| Ligustrum vulgare | | (shrub) | - | + | ╫ | ╫┉┼ | <u></u> | 3: 51-100 |
| L. morrowii, L. tatarica | | (shrub) | - | +- | + | + | | 4: 101-1,00 |
| Phalaris arundinacea | Reed Canarygrass | | | - | + | 1 | <u> </u> | 5: >1,000 |
| Phragmites australis (wetland) | Phragmites | | | + | +- | + + | | 3: >1,000 |
| Polygonum cuspidatum | Japanese Knotweed | ala and A | | +- | + | ++ | | \dashv |
| Frangula alnus | | shrub) | - | + | + | ++ | | - |
| Rosa multiflora | | (shrub) | | + | + | | <u></u> | \dashv |
| Typha angustifolia, T. x.glauca | Cattails (wetland) | | _ | - | + | + | - | |
| Cirsium arvense | Canada thistle | | _ | +- | + | | | \dashv |
| | | | | | | . 1 | | |
| Dipsacus fullonum | Common Teasel | | - | + | -├ | ++ | | _ |
| Dipsacus fullonum Hesperis matronalis Vinca minor (G-cover) | Dame's Rocket Periwinkle | | | | | | | |

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

| | 1 | - | 6 | 5 | 4 | ω | N | - | mod # | | þ |
|--|---|------|---|---|---|---|---|------------|-----------------------------|---|--|
| | | | | | | | | DUCTION OF | species | | CLEVELAND METROPARKS Plant Community Assessment Program Forest Pest and Pathogens Data Sheet Project Label: PCAP Project Name (2005) Plot No. 3 |
| | | | | | | | | 1100 | voucher# | | nt Communi |
| | | | | | | | | | shrub clumps | * | PCAP |
| | | | | | | | | | 0 1 | size class (c | nt Program Projec |
| | | | | | | | 2 | | 2 1-<2.5 | m) woody si | ogram Forest Pest and Pathog Project Name |
| | | | | | | | | | | lems >1m | est and I |
| | | | | | | | | | | \dashv | athogen |
| | | | | | | | | | <15 15-<2 | - | s Data Sh Plot No |
| | | | | | | | | | | | Plot No.: 3-184 |
| | | | | | | | | | e 25 - <30 | | |
| | | | | | | | | | 9 30 - <35 3 | | Page: |
| | | | | | | | | | 10 15 - <40 >4 | | Clevel |
| | | | | | | | | | 11 40 (record each tree) | | ord Metroperics Of |
| State of the state | | | | | | | | | | Voucher# clumps 0~1 1 2 3 4 5 6 7 8 9 10 VOUCHER# clumps 0~1 1~2.5 2.5~6 5~10 10~15 15~20 20~25 25~30 30~35 35~40 >40 (max VOUCHER# clumps 0~1 10~25 2.5~6 5~10 10~415 15~420 20~425 25~430 30~430 35~400 >40 (max VOUCHER# clumps 0~2 2.5~6 5~10 10~415 15~420 20~425 25~430 30~430 35~440 >40 (max VOUCHER# clumps 0~2 2.5~6 5~10 10~415 15~420 20~425 25~430 30~430 35~440 >40 (max VOUCHER# clumps 10~40 15~420 20~425 25~430 30~435 35~440 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 35~40 | # size class (cm) woody stems > 1m shrub 1 2 3 4 5 6 voucher# clumps 0-<1 1-<2.5 2.5-<5 5-<10 10 -<15 15 -<20 |

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

| (H,M, or L) | * Write None Present if no evidence: | |
|-------------|--------------------------------------|-------------------------|
| | | |
| | Beech (Fungus) | Asian Longhorned Beetle |
| | | |
| | Homlock (HMA) | Other Bast or Bathogan |
| - | | |
| | Walnut (Thousand Canker) | nker) |
| | | |
| | | |

High = more than 50% of leaf/needle cover exhibiting symptoms

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

Low = Only a few leaves or branches are exhibiting symptoms

Severity

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Covey and Earth Surface

Project Label: PCAP Project Name.

Plot No.: 3484

Oleverand Metroparts Page: 1 of 1

STANDING BIOMASS (required for emergent wetlands) collected in 0.1 in clip plots (32-32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C7=check when collected

| CLASSIFICATION | | |
|---|--------|-------|
| (FIT = excellent g Fit and Confidence | | |
| Hydrogromerable class (WETLANDS ONLY) | | |
| n DEPRESSION | 1 | Conf |
| a IMPOUNDMENT a Beaver a Human | .₹ | Confe |
| a RIVERINE a Headwater a Mainstein a Channel | File | Conf- |
| a SLOPE (ground water by drology or on a physical slop) | F | Conf= |
| o FRINGING o Reservoir o Natural Lake | - T | Conf= |
| a COASTAL (specify subclass) | 7 | Conf* |
| a BOG (strongly, moderately, weekly ombrotrophic) | Fija | Conf* |
| Ohio EPA YIBI Plant Community Class (WETLANDS ON LY): | ST.TIN | |
| o FOREST o swamp forest o bog forest o forest seep o EMERGENT o marsh o wet meadow o open bog | 7.7 | Conf* |
| 1 | | 1 |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

SHRUB a shrub swamp to tall sh. bog a tall sh. fen

Hope 1 = sight elevational grade across module (hill) with for microhabitat features. Gelect one or select two and everage the econs.NOTE: If mod falls on a stope automatically gets ranked based on steepness (1-3) to begin + sny features present Slape 2 = fails on slope -20* Slope 3 = maximum sleepness that can be safely sampled -45"

- feature is absent or functionally absent from the wedland
- leature is present in the wetland in very small amounts or if more common, of low quality
- feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
- 10 feature is present in moderate or greater amounts and of highest quality

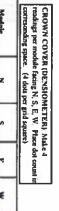
NOTE: bassock and hummocks are counted in 80TH nested quadrat corners but counts are aggregated. depth 3 ix im no. of plands (Tip-Ups) 3.16c3 | 6cm depth 2 hummocks 100, Of depressions по пъсто 10x10m depth I (count) (2-12 cm) 10x10m depth I CW.d c.w.d. - count for pieces with min (12-40cm) 10x10m depth I 6 C.n.d rum im length 10:10:0 depth I ×40 cm D.W.D interspers. 10% (020) depth I microhab. 10x10m SLOPE microhab

McNAB INDICES (degrees) + for up - for down

(FILLED OUT USING BIS PROGRAM - DO NOT FILL OUT IN FIELD)

| +315 degrees | +270 degrees | +225 degrees | + i Si) degroes | +135 degroes | +90 degrees | +45 degrees | At aspect | |
|--------------|--------------|-----------------|------------------|---------------------------|-------------------|-----------------|-----------------|-------|
| NW | ¥ | SW | sa : | SE | m | N. | z | |
| | | | | | | | | LF1 |
| | | | | | | | | TSI** |
| | anay | standing ~ 10 m | recorders eye to | TSI measure angle from | local slopes. For | horizon, TSI is | LFI is angle of | |

- Landform Index (position within landscape)
- Terrain Shape Index (site microtopographic shape)



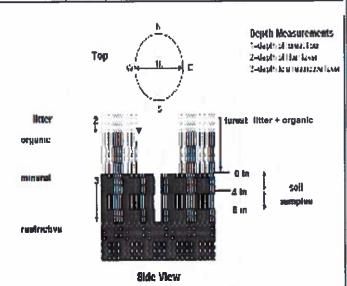


| COL | VER | DV | 21 | DA' | TA |
|-----|-----|----|----|-----|----|
| | | | | | |

| STRATUM | GENERAL FORM |
|------------------------------|---|
| Tree (generally >5 m) | Tree (overstory), very tall shrubs*, liana, epiphyte) |
| Shrub (generally 0.5 to 5 m) | Tree (sapling), shrub, liana, 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.



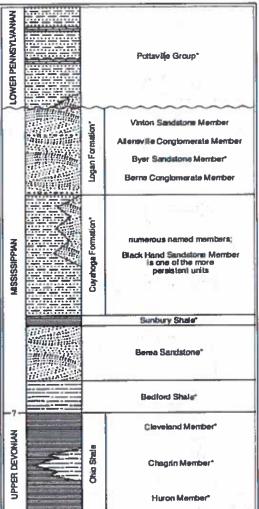


FIGURE 3-20.—Generalized section of Upper Devenian, Ministrypian, and Lower Pennsylvanian formations in northeastern Ohio. Asterials indicate units that are fossiliferous. This composite section represents about 400 meters of ruck exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Ministrypian rocks in Ohio. Some geologies use the European term "Carboniferous," which encompasses the Ministrypian and Pennsylvanian Periods 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 measure sandatone that is fairly widespread, but discontinuous. See Hyde (1953), Horver (1960), and Collins (1979) for more information on Ministrypian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: You Cover, Standing Biomass Data Sheet 6a

Cicroband Metroparks

Page: 1 of 1

SOIL PIT DESCRIPTION: Excavate 20 cm plug with shovel. Describe using Munsell chart, visual exam, texture, and odor:

Soll pit module # ____ (one per entire plot)

20 cm 60 matrix color hydr cond.*** matrix color redox features** oxud roots oxid roots exture* mottle mottle ortile color dox features** ottle color < I S M D z z

refer to texture classes on reverse side

0.1 cm in center of intensive modules SOIL DEPTH MEASUREMENT: Meas

record as >30

hydro. cond ***

I S M D

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

indurdated S*saturated M*moist D*dry.

Ness: include evidence of earthworms (worms,

organic depth litter (cm)

2 litter

Shurses NOW

SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each

| **** <5 cm in diameter | *** >5 cm in diameter | **Boulder = > 10 in | * Gravel-Cubble = 1/16-10* | Bedrock | Boulder** | Gravel-Cobble* | Mineral Sou | Histosol | (Sum - 100)4J | Underlying Earth Surface | EARTH SURFACE & GROUND COVER |
|------------------------|-----------------------|---------------------|----------------------------|-------------------|----------------------|----------------|-----------------------|------------------------|---------------|--------------------------|------------------------------|
| Incler | neta | 5 | 1/16-10" | 0 | O | 0 | 8 | 0 | percent | h Surface* | CE & GROU |
| Other | RoadTrail | Bare Soil | Water | Bryophyte- Lichen | Duff (Ferm. + Humus) | Litter | Fine Woody Debris**** | Coarse Woody Debris*** | (Each < 100%) | Ground Cover | ND COVER |
| (| 0 | 417 | 0 | _ | 0 | 82 | C | 00 | percent | | |

3 Bridle a All Purpose Type

TRAIL INFORMATION

NOVE

cord type and cover for each

%Cover

a Hiking sanctioned

Bootleg unsanctioned

⊒ Dear

1 Gravel

| 1 | 1 | | 7 | em) soil (cm) | | | sure to the nearest , if >30.5 cm, | |
|-------------------|----------------------|------------|-------------|---------------|-------|------|---------------------------------------|--|
| ** submersed, mos | * rooted and floatin | (Aquatic)* | (Floating)* | Herb | Shrub | Tree | Strate | |

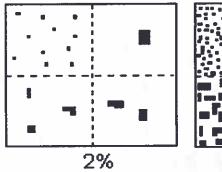
| 2 2 | <u> </u> | _ | | | | - 50 | 8.0 | ameter | acto | 5 | - | _ | | | | | | Ž. |
|---|------------|-------------|------|-------|------|------------------|---|--------|-----------|-----------|----------|-------------------|---------------------|-------|---------------------|----------------------|---------------|--------------|
| oted and 1 | (Aquatic)* | (Floating)* | Herb | Shrub | Tree | Strata | COVER BY | 24 | | | 1/16-10" | 0 | Q | 0 | 8 | 0 | percent | Surface* |
| rooted and floating or slightly emersed | . [| . (| 20 | どん | 8 | Height Range (m) | COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 | Other | RoadTrail | Bare Soil | Water | Bryophyte- Lichen | Duff (Ferm + Humus) | Liter | Fine Woody Debris** | Coarse Woody Debris* | (East < 100%) | Ground Cover |
| e . | ı | t | 80 | 12 | 88 | Total Cover (%) | ax:3, 8, 13 % | (| 0 | 4917 | 0 | | 0 | 28 | 5 | 09 | percen | |

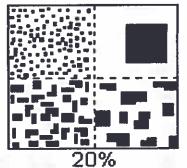
| STAND SIZE |
|---------------------|
| o > 100 x plot size |
| 10-100 x plot size |
| □ 3-10 x plot size |
| a 1-3 x plot size |
| o < plot size |

6aCM PCAP Soils_Crown cover_Landform_Standing Biomass_balls blass_ver 3.x4s last revised 6/4/2012 ceh

PERCENT MOTTLES (USE CLASS CODES):

| Class | C | ode | Criteria: % of |
|--------|-------|-------|----------------------|
| | Conv. | NASIS | Surface Area Covered |
| Few | f | # | < 2 |
| Common | □_C | # | 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

Position

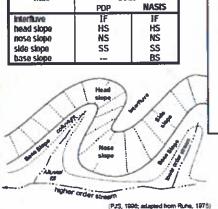
sumenti

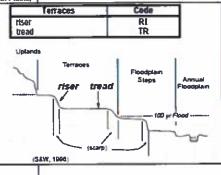
shoulder

hackslope

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

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





Hilistope - Profile Position (Hilistope 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.

Code

\$U

SH

| footslope toeslope | FS TS | | |
|--------------------------------|----------|------|---------|
| Su Sh Bs | - , | Sh H | Su ↓ |
| F.S. 1994, seasons have flower | Allowan | Fi | |

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 flooded".

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

| FORM B-1: | | | | | | | | | | ER | SAI | WPL | ΕP | LOT | mill-uil | | | Review | Name and | SCHOOL S | | | • |
|--|---|----------------|---------------|----------|-------|------|------------|-------------------------------|--------------------------|-----------------|--------------------|----------|---------|-------------|--------------|----------------------------------|------------------------------|------------|----------|-------------|-------|--------|----------|
| Site ID: 3484 BP WCE DATE: 08 1 10 1 1 Location: Fill in bubble(s) if plot(s) could not be sampled and file | | | | | | | | | | | | | | - | 15 | 2 | | | | | | | |
| Carrie Daniel | - | | | | | | | | | | | | di De | | | | sample | ed a | nd fl | ag - | - | | |
| OAA | enter | C | N | 0 | 8 | 0 | EO | W | | Plot ' | | No. of | Piot | 100 H | May A. | Plot 3 | 40,000 | | | 1000 | | _ | |
| | | | | | | | | s; E = Evergre | | ype: E | = Bro | oadlea | ; N = | Needl | e Leaf. / | Absent: No tree oderate(10-40 | | ıvy (40 | -75%); | 4 = V | ery H | eavy (| (>75%) |
| Buffer Plot 1 | Canopy | y Typ f Typ | $\overline{}$ | | | bser | t: O | Buffer Plot 2 | Сапор | y Typ If Typ | | | 4 | bseni | t: O Flag | Buffer Plot 3 | | | | | | sent | Flag |
| Big Trees (> | ees (>0.3m DBH) O O Big Trees | | | | | | | | | 0 | 0 | ② | 0 | 0 | | Big Trees | (>0.3m DBH) | 9 | 0 | 0 | 0 | 0 | |
| mall Trees (< | Trees (<0.3m DBH) ① ① ② ③ ⑤ Small Trees | | | | | | | | <0.3m DBH | 0 | 0 | 0 | 0 | 0 | | Small Trees | (<0.3m DBH) | 0 | O | (9) | 0 | 0 | |
| Woody Shrubs (0.5m- | , Saplings 5m HIGH) | 0 | 0 | 0 | 0 | 0 | | Woody Shrub: (0.5m | s, Saplings -5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | rbs, Saplings im-5m HIGH) | | 0 | 9 | 0 | 0 | |
| Woody Shrubs (<0. | , Saplings 5m HIGH) | (| 0 | 0 | 0 | 0 | | Woody Shrub: (<0 | s, Saplings :5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | bs, Saplings 40.5m HIGH) | | 0 | 0 | 0 | 0 | |
| Herbs, F | orbs and Grasses | 0 | (b) | 0 | 0 | 0 | | Herbs, F | orbs and Grasses | 0 | 0 | 0 | 0 | 0 | | | Forbs and Grasses | 0 | 0 | 0 | Ō | 0 | 11/2 |
| | ground | 0 | 1 | 0 | 0 | Ō | | Bare | ground | 0 | Ō | 0 | Ō | Ō | 3 | Bar | e ground | Ō | Ö | _ | 0 | Ö | 1 |
| Litt | ter, duff | 0 | 0 | 0 | 0 | 1 | | Lit | ter, duff | Ō | Ō | 0 | <u></u> | Ŏ | | L | itter, duff | Ō | =+ | 0 | Ō | Ŏ | |
| ···· | Rock | 6 | 0 | 0 | 0 | O | | 374 | Rock | 6 | Ō | 0 | Ŏ | Ō | | | Rock | (3) | | ō | Ō | Ŏ | |
| - | Water | ② | Ō | 0 | 0 | Ō | | | Water | 3 | Ō | 0 | Õ | Ŏ | | | Water | ® | ŏ | ŏl | ŏ | Ŏ | - 5 |
| | bmerged egetation | Q | Ō | <u> </u> | 0 | 0 | | | ibmerged egetation | Ŏ, | $\overline{\odot}$ | 0 | 0 | ŏ | | | Submerged Vegetation | a | =+ | ŏl | ŏ | ŏ | - 10 |
| | | | | senc | | | rm that | | | _ | les pr | esen | _ | | unfilled | bubble indic | | - | | _ | | | Q |
| Resid | dential | and | Urba | an S | tres | sors | | Hydrology Stressors | | | | | | | | tres | sors | | | | | | |
| FIII bubble | If prese | ent - l | Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | | | | | 2 | 3 | Flag | | | _ | | 1 | 2 | 3 | Flag |
| Road - gra | ivel | | | 0 | 0 | 0 | | Ditches, Channelization | | | | | 0 | 0 | | Pasture/Ha | ıy | | | 0 | 0 | 0 | |
| Road - two | lane | 10 | | o | 0 | 0 | | Dike/Dam/ | | ₹ Bed | | 0 | O | ō | | Range | | | | ō | Ō | Ō | |
| Road - fou | ır lane | BROI | | o | 0 | 0 | | Water Level Control Structure | | | | | 0 | O | | Row Crops | | Щ | | Ö | 0 | O | |
| Parking Lo | t/Pavem | ent | Juli | 0 | 0 | 0 | | Excavation | , Dredgir | ng | | О | 0 | 0 | | Fallow Field | | RESTIN | IG | 0 | 0 | 0 | 15.4 |
| Golf Cours | :8 | | | 0 | 0 | 0 | | Fill/Spoil Ba | anks | | | 0 | 0 | 0 | | Fallow Field | | o | 0 | 0 | | | |
| Lawn/Park | | 1 10 | | 0 | 0 | 0 | | Freshly De | | Sedim | ent | 0 | 0 | 0 | | Nursery | | | | 0 | 0 | 0 | |
| Suburban | Residen | tial | | 0 | 0 | 0 | | Soil Loss/R | loot Expo | osure | | 0 | 0 | 0 | | Dairy | | | | 0 | 0 | 0 | |
| Urban/Mul | tifamily | | | 0 | 0 | 0 | | Wall/Riprag | • | | | 0 | 0 | 0 | | Orchard | iji us | | | 0 | 0 | 0 | |
| Landfill | | | | 0 | 0 | 0 | | Inlets, Outl | and the second | | | 0 | 0 | 0 | | Confined A | nimal Fee | ding | | 0 | 0 | 0 | |
| Dumping | | | | 0 | 0 | 0 | | Point Source (EFFLUENT O | RSTORMY | | | 0 | 0 | 0 | | Rural Resid | dential | | | 0 | 0 | 0 | |
| Trash | | | 24016 | 0 | 0 | 0 | | Impervious (SHEETFLOW | | input | | 0 | 0 | 0 | | Gravel Pit | | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Irrigation | | | | 0 | 0 | 0 | |
| Other: | | 100 | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | |
| Indus | strial De | evelo | pme | ent S | itres | BOL | , | | | | | ı | labit | at/V | egetai | tion Stress | OIS | | | | | | |
| Fill bubble | if prese | ent - i | Plot | 1 | 2 | 3 | Flag | Fill bubble | if preser | nt - F | lot | 1 | 2 | 3 | Flag | Fill bubb | le if prese | ent - F | Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | | M | | 0 | 0 | 0 | | Forest Clear | Cut | - | | 0 | 0 | 0 | | Herbicide U | se | 3 3 | . 8 | 0 | 0 | 0 | |
| Gas Wells | | | | | | | | Forest Selec | tive Cut | | | 0 | 0 | 0 | | Mowing/Shr | ub Cutting | 1 | 00100 E | o | 0 | 0 | |
| Mine (surfa | ne (surface) OOO Tree Pl | | | | | | | | ion | | | 0 | 0 | 0 | | Trails | | | | o | o | 0 | |
| Mine (unde | ne (underground) O O O Tree Canop | | | | | | | | The second second | огу | ı | 0 | 0 | O | | Soil Compa (ANIMAL OR H | ction | | _ | o | o | 0 | |
| Military | | | | 0 | 0 | 0 | | Shrub Layer | Browse | d | | 0 | Ø | 0 | | Offroad veh | | ae | - | ŏ | ō | 0 | |
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| Landfill | | | | 0 | 0 | 0 | | Inlets, Out | | | | 0 | 0 | 0 | | Confined A | | eding | | 0 | 0 | 0 | |
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| Stressor Presence/Absence - Confirm that a filled data bubble indicates p | resen | ice an | d an | unfilled | bubble indicates absence by fil | ling th | is bub | ble. (| 9 |
| Residential and Urban Stressors Hydrology Stres | SOFS | | | | Agricultural & R | ural S | tres | SOFS | |
| Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fili bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel O O Ditches, Channelization | 0 | 0 | 0 | | Pasture/Hay | 0 | 0 | 0 | |
| Road - two lane OOO Dike/Dam/Road/RR Bed | 0 | 0 | 0 | | Range | 0 | 0 | 0 | |
| Road - four lane OOO Water Level Control Structure | 0 | 0 | 0 | | Row Crops | 0 | 0 | 0 | |
| Parking Lot/Pavement O O Excavation, Dredging | 0 | 0 | 0 | | Fallow Field (RECENT-RESTING ROW CROP FILLD) | 0 | 0 | 0 | |
| Golf Course OOO Fill/Spoil Banks | 0 | 0 | 0 | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | 0 | 0 | 0 | |
| Lawn/Park O O O Freshly Deposited Sediment (UNVEGETATED) | 0 | 0 | 0 | | Nursery | 0 | 0 | 0 | |
| Suburban Residential O O Soil Loss/Root Exposure | 0 | 0 | 0 | | Dairy | 0 | 0 | 0 | |
| Urban/Multifamily O O O Wall/Riprap | 0 | 0 | 0 | | Orchard | 0 | 0 | 0 | |
| Landfill O O Inlets, Outlets | 0 | 0 | 0 | | Confined Animal Feeding | 0 | 0 | 0 | -0.3 |
| Dumping O O Point Source/Pipe (EFFLUENT OR STORMWATER) | 0 | 0 | 0 | | Rural Residential | 0 | 0 | 0 | |
| Trash O O O Impervious surface input (SHEETFLOW) | 0 | 0 | 0 | | Gravel Pit | 0 | 0 | 0 | |
| Other:O O O Other: | 0 | 0 | 0 | | Irrigation | 0 | 0 | 0 | |
| Other: O O O Other: | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Industrial Development Stressors | | Habi | tat/V | egetat | tion Stressors | | | | |
| Fill bubble if present - Plot 1 2 3 Fiag Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling O O O Forest Clear Cut | 0 | 0 | 0 | | Herbicide Use | 0 | 0 | 0 | |
| Gas Wells OOO Forest Selective Cut | 0 | 0 | 0 | | Mowing/Shrub Cutting | 0 | 0 | 0 | |
| Mine (surface) O O Tree Plantation | 0 | 0 | O | | Trails | 0 | 0 | 0 | |
| Mine (underground) Tree Canopy Herbivory | 0 | 0 | 0 | | Soil Compaction | 0 | 0 | 0 | |
| Adilitary Shrub Layer Browsed | 0 | | 1 | | (ANIMAL OR HUMAN) Offroad vehicle damage | 0 | 0 | 0 | |
| Links Connect | - | 0 | | - | Soil erosion (FROM WIND, WATER, | - | | - | |
| OVERALL S'HIGH) | 0 | 0 | 0 | | OR OVERUSE) | 0 | 0 | 0 | |
| Omer. Canopy Canopy Rumad Grassland | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Other: O O O (BLACKENED) | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. Explain all flags in comment section on the base Buffer Sample Plots 05/27/2011 | = mis ack of | c. flag this fo | s assi om | gned by | y each field crew. 242 | 8168 | 304 | | |

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