| CLEVELAND ME | TROPARKS Plant Community Asse | essment Program | : Quality Control Form |
|------------------------|------------------------------------|-----------------|--|
| Project Label: | РСАР | Plot N | c: Quality Control Form |
| | | | Comment required if item answer is NO |
| Parking/Access outsi | ide of Park Boundaries: | Y (N) | If yes, write details in Comments section below |
| Field journals compl | cted | (Y) N | |
| Site sketch made on | 1:3000 map? | (Y) N | 1307 |
| Check cover page | X-axis Bearing of plot recorded | (A) N | |
| | GPS coords. Recorded | (Y) N | |
| | North direction recorded | N (Y) | |
| | Photographs taken? | N N | |
| | Relocated Pins Mapped | Y N | |
| Plot No., Date agreer | nent on all pages? | И | |
| Header data complete | ed all pages? | Y N | |
| Cover classes record | ed in all Intensive modules | N (V) | |
| Browse Level By Spe | ecies | N (Q) | |
| Woody stem quality | control check | (Y) N | Check every line and cross check with the Tree Cover Sheet |
| Invasive plant quality | | YN | NA |
| Ash trees mapped | | (Y) N | |
| Completed Forest Pe | st/Pathogen Datasheet | (Y) N | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Cover by Strata? (cor | | (Y) N | |
| | d with matching plot #. | Y N | T |
| Cross check 2010 inf | | N (V) | Highlight any changes from 2010 information |
| | datasheet with initials and number | W W | |
| Vouchers labeled on | | (Y) N | |
| Pink flags removed | | (Ŷ) N | |
| Data sheet QA before | e leaving site? | (Y) N | |
| Common equipment | | YN | |
| Data sheets scanned? | | | Enter date to left |
| Final data sheets scar | nned? | | Enter date to left |
| Buffer Widths measu | | YN | |
| Web Soil Survey | 19.50 | Y N | 0-9 |
| Voucher Location | Refrigerator | YN | 2 |
| (# vouchers collected) | Press (#) | | Enter number to left |
| CKM378. | | Y N | |
| | der de d | YN | |
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| 25 KS2024 | Thrown away | YN | |
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| | | _ | |
| □ Yes | Original GRTS point is sampleable | | |

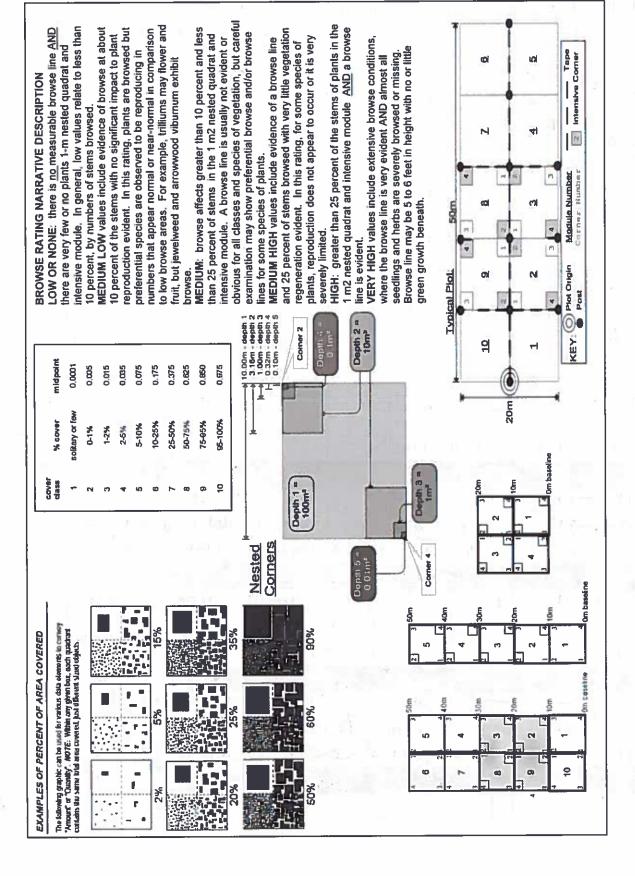
| GRTS point verifi | cation: Is plot sampleable? |
|-------------------|---|
| □ Yes | Original GRTS point is sampleable |
| □ No | Original GRTS point lands in a non-sampleable area (fill in category below) |
| | Point falls in a water (i.e. river, lake) |
| | Managed mowed area (i.e. golf course, pienic area, right-of-way) |
| | Paved area (i.e. parkinglot, road) |
| | Unsafe to sample (i.e. steep slope) |
| | D Other |

Additional Comments:

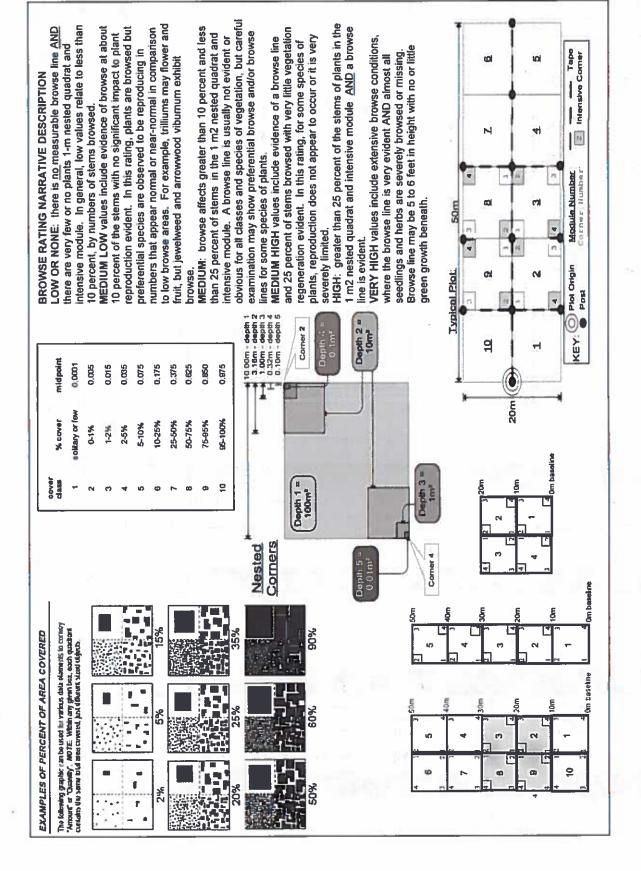
All pins except 50m centerline found.

| CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | nmunity Assessment P | rogram - Backg | round Data | Sheet | e. | | € | (Cluster and Matroparks |
|---|---------------------------------------|------------------------|----------------------------------|-------------------|-------------------|------------|---|--------------------------|
| Project Label: | PCAP | Project N | Project Name: 02 BR 2015 | R2015 | y. | Plot No.: | Plot No.: 10.89 | Page 2 of 2 |
| MODIFIED NATURESERVE CLASS* | | | DISTU | DISTURBANCES | | | | |
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| Beech-Red Oak Forest | ± 5 | εγ | Animal | W | 0 | 100 | Der Browse | |
| | | | Other | | , | | | |
| HOMOGENEITY | | | **L=low | . ML=med low | , M=med, | di-l=med h | **L=low. ML=med low. M=med, MH=med high, H=high, VH=very high | igh |
| | □ Compositional trend across the plot | | Current | Current Land Use: | CMP | | | |
| nclusions | ı mosaic | | Former | Former Land Use: | | | | |
| | HYDROLOGIC REGIME* | GIME* | | | | | | |
| | Upland (seldom flooded) | | □ Intermittently flooded | papad | | | | |
| SALINITY* | □ Intermittently/seasonally saturated | | □ Semipermanently flooded | y flooded | | | | |
| o Saltwater | (seldom flooded) | | - Permanently flooded | oded | 86 | | | |
| o Brackish | Permanently/Semipermanent. saturated | | n Tidal/Seiche flooded daily | oded daily | | | | |
| - Fresh | (dry <1/yr, seldom flooded) | | ☐ Tidal/Seiche flooded monthly | oded monthly | | | | |
| Vpland (n/a) | □ Occasionally flooded (<1/yr) | | □ Tidal/Seiche flooded irregular | oded irregular | ļ | | | |
| | ☐ Temporarily flooded | | (e.g. wind, storms) | ms) · · · · (sm | | | | |
| (by default unless plot is a wetland) | | | Unknown | | | | | |
| Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) | ess of plot to the stand, succes | ssional status, maturi | ly, etc.) | 370 | | | | |
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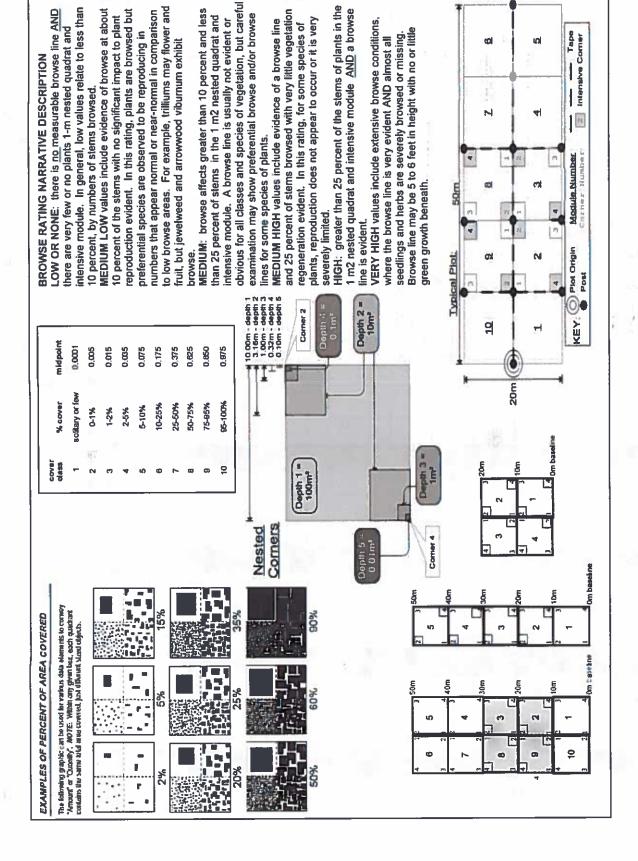
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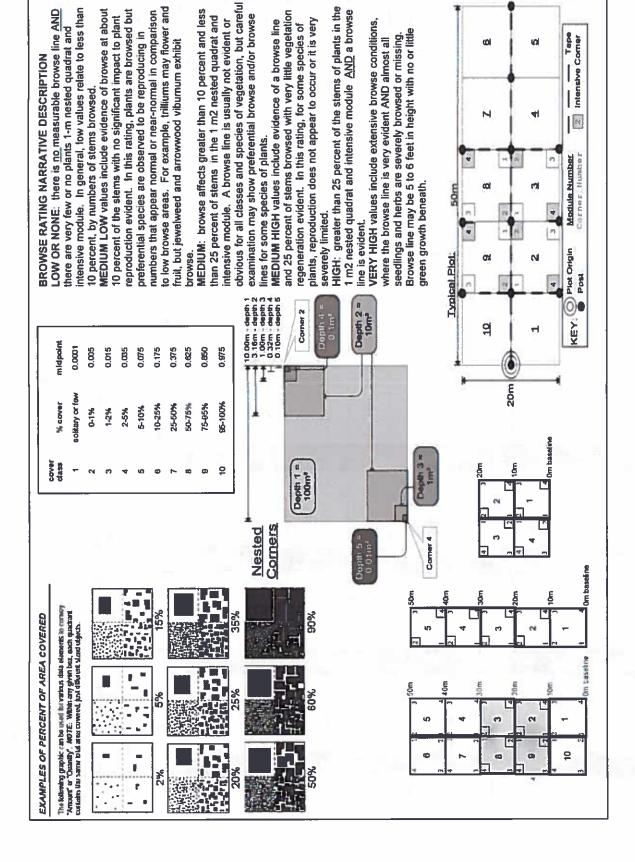
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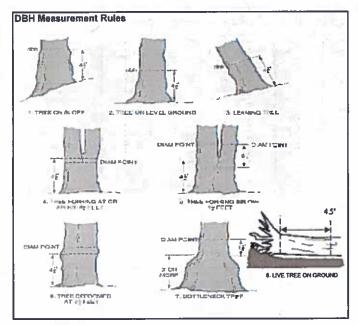
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Explain subsample (additional room on back) Viburama aurifolium Standing Dead Over rubum Quircus rubra tagus granditalia Quercus rubra Compa virginiara Ul fagus grandifolia. Fagus grandifolia Fagus grandifolia Lindendron tulipifea Bur socharum Givercus rubra Hadinus pemsylvania July socharum Faaus grandifiolia frans grandifolia nioznia prinzoin July saccharum liburnum aurifolium iriadendran tulipitua hur saucharum ACLY Subsum Imusso. Project Label: PCAP voucher# :1 browsed stems! 0-1.4m or super % sub Project Name: Q2Br 2015 区区区 ×: size class (cm) woody stems >1.4m :: 2 :1 1-<2.5 2.5-<5 Plot No : 1089 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - < 30 30 - <35 Wigereland Metroparts 35 - <40 ō 689,628 0.59.9.11 >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













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.



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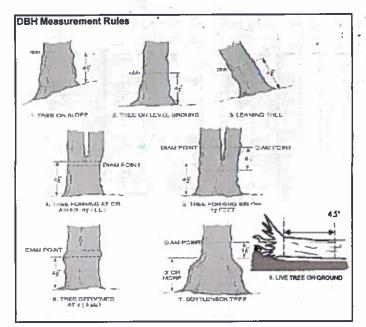
ASH CANOPY BREAKUP CONDITION (for dead trees):

(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 slem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 6 Standing Opad Nibram auadaim Xibumm aurifolium Viburium acert-blium Smilas roturdifolia Ostrya virginiana Explain subsample (additional room on back) Vibunim autifolium Standing-Dead Fagus grandifolia Quercus rubra Our whom Caverius alba Our sachanim JURICUS LUDIA Faqus qrandifolinia Pags gardifolia Jur sxchanm Jur sauhanm icur sachanum lur saccharum imunicachur so transling Dead irrodendran tolipitera INCUS TUDIOS Project Label: voucher# 9.0 . powsed 0-1.4m or super % sub Project Name: ORBr 2015 clumps size class (cm) woody stems >1.4m 区区 国区 2 :1 :: 1-<2.5 2.5-<5 Plot No.: 1089 5-<10 10-<15 15 - <20 20.-<25 Page: 2 25 - <30 30 - <35 Sieveland Metropaiks 35 - <40 855 56.0 99.5 >40 (record each tree) 042

was all



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













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- 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.



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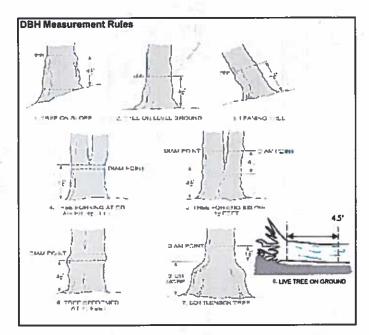
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ASH CANOPY BREAKUP CONDITION (for dead trees):

(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 Standing Dead Explain subsample (additional room on back): Quera's rubia Viburam aurifolium Project Label: PCAP voucher# # sterns browsed 0-1.4m or super % sub Project Name: QBr 2015 clumps size class (cm) woody stems >1.4m 0-<1 1-<2.5 2.5-<5 Plot No.: 1089 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 Surreland Metroparks 35 - <40 5 56.4 >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













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.
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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.

If Ash Condition scores 5 (dead) provide breakup score (A-E) Count EAB exit holes 1.25m≥ x ≥1.5m
 Woodpecker and epicormic marked present (1) or absent (0)

| | | | 7 | | | | | 184 | | | | | | | | | | | | 90 | | | | 1 | Module | |
|----|-----|----|----|---|----|------|----------|-----|---|---|----------|----------|-----|-----|-----|-----------------------|---|--|---|----|-----|----|-----|--------------|----------------------------------|------|
| 25 | 24 | 23 | 22 | 21 | 20 | 150 | ≅ | 17 | 6 | 5 | 4 | ದ್ದ | 12 | = | ð | 0 | œ | 7 | 0 | Ch | • | cu | N | - | ᅙᄛ | |
| | | | | | | | | | | | | | | | | | | | | | | | | None Present | Species. | |
| | | | | | | | | | | | | | | | | | | | | | 1 3 | | | | Dead | |
| | 200 | | | - | | - | | ┝ | | - | | \vdash | | - | | - | | | | ┝ | | ┝ | | | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Voucher # | |
| | | - | | | | - | | | | | | | | | | | | | | | | | | | DBH (cm) | |
| | | | | | | | | | | | <u>u</u> | | | | | | | | | | | | | | H80 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | Ash condition | |
| | | | | | | | | | | | | j | | | | | | | | | | | | | Ash 'Dead condition | |
| | | | | | | | | | | | | | | | | | | | | | | | | | # Exit | ASH |
| | | | | | | | | | | | | | | í | | | | | | | | | | | # Exit Epicamic holes present | DRIV |
| | | | | | | | | | | * | | | | | | | | | | | | 4 | | | Waadpecker hales | |
| | | | | 1 | | | 1 | | | 1 | Ва | selin | • | | | | | | | | | | eil | | | |
| | | | | Map all ash tre | | y de | I | | | | | | | | | | | *** Change in | | | | | | | | |
| | | | | Map all ash trees >10cm in each module using Tree ID number | | IVA | | [| 2 | | | | | _[• | 0 | | | *** Change intensive module numbers when necessary | | 1 | > | 2 |) | | | |
| | | | | module using T | | | Ì | | | i | | | 100 | H | ogi | MIII Mila Maria | | umbers when | | | | | | | | |
| | | | | ree ID nun | 1 | | | [| • | | | | | [| 3 | | | necessary | | | | | | | | |

all ash trees ≥10cm in each module using Tree ID number 6

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1; Early detecti | on/ Rapid response | | Pre | sence | | GP5 | |
|----------------------------------|--------------------------|---------------|----------|--------|--|---------------------------------------|--------------|
| | | NE | | sw | NW | | Presence |
| Aicrostegium vimineum | Japanese stiltgrass | | | | | | X: yes |
| tanunculus ficaria | Lesser Celandine | | | | 1 | | |
| | e) Black Swallow-wort | | | _ | - | | |
| | nd) Flowering Rush | | | | | | |
| leracleum mantegazzianum | Giant Hogweed | | | | | | |
| Tier 2: Asse: | | | # of | Plants | | comments | |
| | | NE | | SW | NW | | # of Plants |
| Acer platanoides | Norway Maple | | | | | | 1: 1-10 |
| Allanthus altissima | Tree of Heaven | | \top | | | | 2: 11-50. |
| onicera japonica (vir | | | + | | | | 3: 51-100 |
| | d) Purple Loosestrife | | _ | | | | 4: 101-1,000 |
| | er) Bishop's Goutweed | | | | | | 5: >1,000 |
| Celastrus orbiculatus (vir | | _ | + | + | | | |
| Forilis sp. | Hedgeparsley | | \dashv | - | | | _ |
| Conium maculatum | Poison Hemlock | \dashv | + | | | | _ |
| Rhamnus cathartica | | rub) | + | | | | |
| Berberis thunbergii | Japanese Barberry (shi | | \top | + | | | \dashv |
| Alnus glutinosa | European Alder | | | + | | | \dashv |
| Dipsacus laciniatus | Cut-leaf Teasel | | _ | + | 1 | | \dashv |
| laeagnus umbellata | Autumn Olive (shr | ub) | + | + | | | - |
| onicera maackii | Amur Honeysuckle (shr | | _ | + | | | \dashv |
| Euonymus fortunei | Wintercreeper | ub/ | + | + | | | |
| | e is of Interest | | # of | Plants | | comments | |
| The St Flesch | 2 13 01 11151 cos | NE | | sw | NW | | # of Plants |
| Convallaria majalis (G-cov | er) Lily of the Valley | 1,12 | | | | | 1: 1-10 |
| | er) Crown Vetch | - | _ | | | | 2: 11-50. |
| leutherococcus pentaphyllus | Five-leaf Aralia (shr | ub) | + | | | | 3: 51-100 |
| | er) Japanese Pachysandra | | + | | | · · · · · · · · · · · · · · · · · · · | 4: 101-1,000 |
| Philadelphus coronarius | | rub) | \top | 1 | | | 5: >1,000 |
| | er) Lungwort | ,, | | + | | *** | [21 1 2,222 |
| Rubus phoenicolasius | Wineberry | | + | 1 | | | |
| | nd) Yellow Flag Iris | _ | | + | | | |
| Ornithogalum umbellatum | Star of Bethlehem | $\overline{}$ | 1 | + | | | \dashv |
| /iburnum opulus var. opulus | European Cranberry (shr | ub) | + | + | | | \dashv |
| Viburnum plicatum | Doublefile Viburnum (shr | | \top | + | | | \neg |
| | ad and abundant | 45, | Pr | esence | | comments | |
| | | NE | | sw | NW | | # of Plants |
| Alliaria petiolata | Garlic Mustard | | | | | ···· | 1: 1-10 |
| igustrum vulgare | Common Privet (shr | ub) | | +- | | | 2: 11-50. |
| morrowii, L. tatarica | Bush Honeysuckles (shr | | \top | + | | | 3: 51-100 |
| Phalaris arundinacea | Reed Canarygrass | , | _ | +- | | | 4: 101-1,000 |
| Phragmites australis (wetlan | | | - | + | | | 5: >1,000 |
| Polygonum cuspidatum | Japanese Knotweed | \dashv | + | - | | | J. 72,000 |
| Frangula alnus | Glossy Buckthorn (shri | uh) | + | + | | | ┥ |
| rangura ainus Rosa multiflora | Multiflora Rose (shr | | + | + | - | | \dashv |
| | Cattails (wetland) | 2D) | + | + | | | |
| Typha angustifolia, T. x.glauca | | $\overline{}$ | + | + | | | |
| Cirsium arvense | Canada thistle | + | + | + | + | | \dashv |
| Dipsacus fullonum | Common Teasel | | + | +- | + | | \dashv |
| Hesperis matronalis | Dame's Rocket | | - - | + | + | | |
| Vinca minor (G-cove | r) Periwinkle | | l | | | | |

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

| | - Agent Fancel | | | | 400 | P | | | | | |
|---|----------------|-------------------------|---------------------------------|---------------------------------------|----------------|---|------------------|---------------------|--|---|------------------------|
| | | 11 | size class (cm) woody stems >1m |) woody stems | - ă | эл <u> </u> | 7 | - | • | 5 | : |
| mod # species | voucher# | clumps | <u> </u> | 2 3 1-<2.5 2.5-<5 | 5 5-<10 | 10 - <15 15 - | 6 - <20 20 - <25 | <25 25 - <30 | 30 - <35 | 35 - <40 >4 | >40 (record each tree) |
| 1 Nove Present | | | | | | | | | | | |
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| 3 | | | | | | 9 | To the second | | | | |
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| allouin pigenton | | | | 100 | | | I | - 15 | | | |
| ST. | | | | | | | | | | | |
| 6 | | | | e e e e e e e e e e e e e e e e e e e | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | ž | | | | | | | | | |
| 10 | | | I | | | | | | | | |
| | - 20 | | | | | | | | | | |
| * IF EVIDENCE OF PEST OR PATHOGEN RECORD TOTAL SPECIES POPULATION IN THE PLOT EVI | PATHOGEN RI | ECORD TOT. | AL SPECIE | S POPULA | TION IN TH | IE PLOT E | | | | | |
| Strata | of stem | Severity (H,M, or L) | 1: 1 | * Write None Present if no evidence | Present if | no evidenc | VEN THE | EN THE NOT INFECTED | CTED | | |
| Tree (size class 3 or above) | > | | | | Beech (| | VEN THE | NOT INFE | CTED | | |
| Shrub (size class 2 or below including shrub clumps) | XX X | | | Nou | | Beech (Fungus) | VEN THE | NOT INFE | CTED Asian Lon | ghomed | Beetle |
| | | | | | Hemioci | Beech (Fungus) Hemlock (HWA) | VEN THE | NOT INFE | Asian Longhorned Beetle Other Pest or Pathogen | nghomed st or Path | Beetle |
| | | | | None | Hemioci | Beech (Fungus) Hemlock (HWA) Walnut (Thousand Canker) | VEN THE | NOT INFE | CTED Asian Lon Other Pes | TeD Asian Longhorned Beetle Other Pest or Pathogen Tulip papular weevil present | athogen |
| Severity | | | | None | Hemioci | Fungus) ((HWA) | VEN THE | NOT INFE | Asian Longhomed Beetle Other Pest or Pathogen Tulip popular weavil present | T Pest or Pathogen program wavil problemen the Veins | Beetle Beetle |

SRE_CM PCAP Forest Pest and Pathogen Data.xls last revised 7/2/2015 jjm

Natural Resources Management FORM NR/2010-03a 20t di guis

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

PIOL NO.: 1089

Page: 1 of 1

| | CLASSIFICATION | | |
|-----|--|-------|--------|
| | (FII = excellent, g Fit and Confidence | | |
| | Hydroecomerchic class (WETLANDS ONLY): | | |
| (4) | o DEPRESSION | F | Conf. |
| 1 | o IMPOUNDMENT to Beaver to Human | F | Conf= |
| | D RIVERINE O Headwater O Mainstern O Channel | Fig. | Conf* |
| | D SLOPE (ground water hydrology or on a physical slope | EH. | Conf |
| | o FRINGING o Reservoir o Natural Lake | 7 | Conf= |
| | n COASTAL (specify subclass) | Fire | Conf* |
| | n BOG (strongly, moderately, weekly ombrotrophic) | File | Conf= |
| | Obio EPA VIBI Plant Community Class (WETLANDS ONLY) | KI'IX | |
| | th FOREST in swamp forest to boy forest to forest seep | Fig. | Conf= |
| | a EMERGENT a marsh a wet meadow a open bog | ₹ | Conf- |
| | a SHRUB a shoub swamp a tall sh. bog a tall sh. fen | F | Confin |

| Stope 2 = sight deviational grade across modules (skill) Stope 2 = talls on a stope automatically gets resided based on alterpress (1-3) to begin + inv features present fines 1 = sight deviational grade across modules (skill) Stope 2 = talls on stope -20° Stope 2 = maximum steepness that can be safely sampled -15° feature is present in moderate arrowns, but not of highest quality. or in small amounts of highest quality feature is present in moderate arrowns, but not of highest quality, or in small amounts of highest quality C. w.d count for places with minimum 1m length no. of no. of no. of repth 2 depth 1 length arrowdish tensor (count) (count) (count) (count) (count) (count) (count) (rmk) Stope 2 = maximum steepness that can be safely sampled -15° C. w.d count for places with minimum 1m length microbab. microbab. microbab. microbab. Stope 2 = talls on stope -20° Stope 3 = maximum steepness that can be safely sampled -15° c. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality C. w.d count for places with minimum 1m length no. of highest quality no. of highest quality no. of highest quality no. of | Slope 2 = titls on slope -20° Slope 3 = maximum steepness that can be safely sampled -45 Slope 2 = titls on slope -20° Slope 3 = maximum steepness that can be safely sampled -45 C.w.d count for placess with minimum 1m length c.w.d count for placess with minimum 1m length c.w.d count for placess with minimum 1m length depressions (2-12 cm) (2-12 cm) (12-10 cm) depth 1 (count) | MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only Revent for microhabitet features. Select one or select two and awarage the access.NOTE: If mod falls on a abops automatically gets ranked bessed on absopness (1-3) to bugin - leny features present flags 1 = sight elevational grade across module (NIII) Respect of select one or select two and awarage the access.NOTE: If mod falls on a abops automatically gets ranked bessed on absopness (1-3) to bugin - leny features present flags 1 = sight elevations (1-3) to bugin - leny features present flags 1 = sight elevations (1-3) to bugin - leny features present flags 1 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - leny features present flags 2 = sight elevations (1-3) to bugin - | | | _ | | |
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| Status for microhabits features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked bread on shepness (1-3) to begin + any features present Slope 3 = micrimum steepness that can be safely sampled -45. Slope 3 = micrimum steepness that can be safely sampled -45. | Rewark for microhabitat feetures. Select one or select two and average the score, NOTE: (f mod falls on a slope automatically gets ranked based on sleepness (1-3) to begin + any feetures present flaps 1 = slight elevational grade across module (hit) Slope 2 = talk on slope -20° Slope 3 = maximum sleepness that can be safely sampled -45° Feature is absent of functionally absent from the westernd | TURE COUNTS - Intensive modules only If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present ross module (kit) Slope 2 = talls on slope -20° Slope 3 = maximum steepness that can be safely sampled -45° | re common, of low quality | imail amounts or if me | he wedand in very | present in th | leature is |
| Realts for microhabits features. Select one or select two and average the score.NOTE: If mod fells on a slope automatically gets ranked bread on shepmess (1-3) to begin + sny features present fileps 1 = slight deviational grade across module (hit) Slope 2 = talls on slope -20° Slope 3 = micrimum steepness that can be safely sampled -45° | Rewis for microhabitat feetures. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + siny feetures present flaps 1 = slight elevational grade across module (rift) Slope 2 = talts on slope -20° Slope 3 = maximum steepness that can be safely sampled -45° | TURE COUNTS - Intensive modules onty If one of selective and everage the score,NOTE; if mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present rest module (NII) Slope 2 = talls on slope -20° Slope 3 = maximum steepness that can be safely sampled -45° | | om the wetland | incoonally absent t | absent or fu | feature is |
| Resilts for microhabitat features. Select one or select two and everage the score.NOTE: If mod fells on a slope automatically gets ranked based on sleepness (1-3) to begin + any features present flieps 1 = slight elevational grade across module (hig) Slope 2 = talls on slope -20° Slope 3 = maximum sleepness that can be safely sampled -45° | Revise for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + sny features present flags 1 = slight devalorational grade across module (hit) Slope 2 = talk on slope -20° Slope 3 = morrimum steepness that can be safely sampled -45° | TURE COUNTS - Intensive modules only If one of solective and everage the score,NOTE; if mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any feetures present rest module (Nit) Slope 2 = talls on slope -20° Slope 3 = matrimum steepness that can be safely sampled -45° | | | | | |
| Revits for microhabitat features. Select one or select two and average the score, NOTE; If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present | Rests for microhabitat features. Select one or select two and average the score.NOTE; If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present | TURE COUNTS - Intensive modules only drone of selective and average the score,NOTE; If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present | Slope 2 = talk on slop | odule (hill) | nal grade across m | ght elevation | lope 1 - s |
| | | TURE COUNTS - Intensive modules only | rage the score.NOTE: If mod fa | or select two and ave | setures. Select on | crohabitat (s | tards for m |
| | | TURE COUNTS - Intensive modules only | | | | | |

| MCNAB INDICES (degrees) + (or up - for down) FFILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FELD) At aspect NE LF1° TS1°* 445 degrees NE E spect single of in the local slopes. For the late of specific from the local slopes. For the late of specific from the late of speci |
|--|
|--|

** Temain Shape Index (site microtopographic shape)

CROWN COVER (DENSIOMETER) Made 4 readings per module facing N. S. E. W. Place dot count in corresponding space. (4 dots per grid square)

| •- 0 | | 0 | 14- | Mediale | comisonang space. (4) |
|---------|---|---|-----|---------|-------------------------------------|
| 0 | _ | 0 | 0 | s | ing space. (4 does per grid square) |
| 0 | ผ | 0 | 0 | e | To the |
| - | 0 | - | 0 | € | 1 |

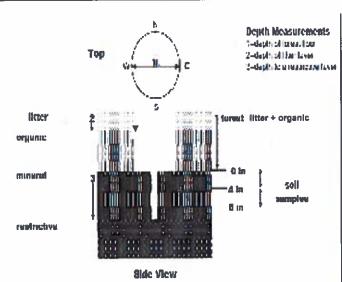
NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated.

| COVER BY STRATA | | | |
|-----------------|--|--|--|
| CUARD BA SIBVIV | | | |
| | | | |
| | | | |

| 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

^{***}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.



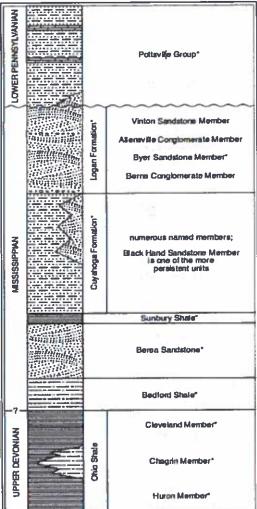


FIGURE 3.20.—Generalized section of Upper Devoman Missesppian, and Lower Pernaylvanian formations in northeastern Ohio Asteriaks indicate units that are feasiliferous. This compositie section represents about 400 meters of rock exposed across the area. The section is not to each, but the thicknesses indicated are propertional. The term "Wavesty is used in the older literature to refer to Mississippian rocks in Ohio. Some seedspits use the European nerm "Carbomiérous," which encompasses the Mississppian and Pennsylvanian Pernods 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 sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

^{**}Can also include seedlings of shrubs, i.e. all shrubs <0,5m

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
Project label: PCAP Project Name: 0387 205

(P) deretand Metropaids

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

(one per entire plot)

| | | | | | | 20 cm | | | | | | | ē cm |
|-----------------|------------------|----------|------------|---------|--------------|--------------|---------------|------------------|----------|------------|---------|--------------|--------------|
| hydro, cond *** | redox features** | texture* | oxid roots | %mottle | mottle color | matrix color | hydr cond.*** | redox features** | texture* | oxid roots | %mottle | mottle color | matrix color |
| - S | Υ | | Υ | | | L | N S I | Υ | | 4 | | | |
| D | Z | | z | | 200 | | D | z | Ire | z | | | Ite |

refer to texture classes on reverse side

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

*** Circle one:

1-indundated S-saturated M-moist D-dry:

Notes: include evidence of earthworms (worms, castings, middens)

MOD 2: NOW PRESENT

Moo 9: Castings present MOD 3: Costings present Mod 8: Noru present

00

0 23

80 Ġ

38

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

| Soil Series Source: Ohio Soil Survey Landform type: Depth to rest. Layer. Perent Material: DEXCessively dr. D Somewhat excessively O Excessively dr. D Somewhat excessively O Well drained D Moderately well dr. O Somewhat poorly dr. D Somewhat poorly dr. O Impermeable surface |
|--|
|--|

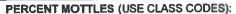
| 1 litter+ organic depth 2 litter water depth depth sat mod# (cm) depth (cm) (cm) soil (cm) | 0.1 cm in cent record as >30 | 0.1 cm in center of intensive modules, If >30,5 cm, record as >30 | tensive mox | jules, If >34 | 0,5 cm, |
|--|---------------------------------|---|-------------|---------------------|------------------------|
| – חח חח – | | 1 litter+ organic depth | | | 74 |
| 2 7.7 7.7 | modif | | _ | water depth (cm) | depth sat soil (cm) |

| Undertying Earth Surface* | Surface | Ground Cover |
|---------------------------|-----------------------|------------------------|
| (NGOO! — tomSy | percent | (Each ≤ 100%) |
| losostily | 1 | Coarse Woody Debris*** |
| Mineral Sod | 7997 | Fine Woody Debris**** |
| Gravel-Cobble* | W | Litter |
| Boulder** | 1 | Duff (Ferm + Hunus) |
| Bedrock | 1 | Bryophyte- Lichen |
| • Gravel-Cobble = 1/16-10 | 1/16-10* | Waler |
| • Boulder = > 10 in | 5 | Bare Soil |
| •••>5 cm in diameter | xeter | Road/Trail |
| | eeee & cm in diameter | Other |

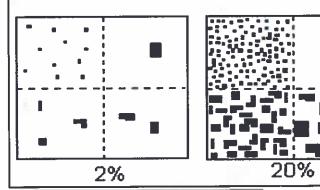
| COVER BY STRATA estimate using midpol | COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 | ex:3, 8, 13 |
|---------------------------------------|--|-----------------|
| Strata | Height Range (m) | Total Cover (%) |
| Tree | ر ا ا | 93 |
| Shrub | 5. 5 | 73 |
| Herb | 0 - •5 | 38 |
| (Floating)* | • [| 1 |
| (Aquatic)* | . 1 | 1 |
| " rooted and it | " rooted and floating or slightly emersed | sed. |
| ** submersed, | "submersed, most plant mass below surface | w surface |
| SEE BACK OF | SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE | L'STRATA |

| Dear | n Gravel | Bootleg unsanctioned | □ Haking sanctioned | o Bridle | o All Purpose | Туре | record type and cover for each | TRAIL INFORMATION: |
|------|----------|----------------------|---------------------|----------|---------------|--------|--------------------------------|--------------------|
| W | | = | | | | %Cover | w each | 2 |

| ^ - | 2/3 | v x | O I A |
|-----------------|--------------------|------------------|------------|
| l-3 x plot size | 10-100 x plot size | >600 x plot size | STAND SIZE |
| | plot size | of size | IZE |
| z csizz | 0-100 x plot size | lot size | 125 |



| Class | Code | | Criteria: % of |
|--------|-------|-------|----------------------|
| - | Conv. | NASIS | Surface Area Covered |
| Few | f | # | < 2 |
| Common | c | # | 2 to < 20 |
| Many | m | 품 | ≥ 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

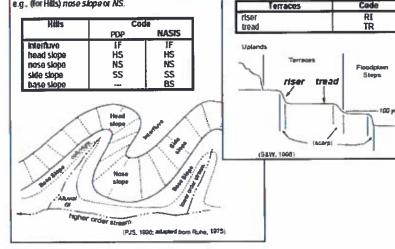
4= Coarse Sand

9= Not measured - make plot note

Position

Geomorphic Component - Three-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.



Hilisiope - Profile Position (Hilisiope Position in PDP) - Two-dimensional 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

| shoulder backslope footslope toeslope | SH BS FS TS | |
|--|----------------------|-------|
| Su Sh Bs | Fa Ta Gordon | Sh Su |
| (PJS, 1996; session from Flure,) | 9761 | |

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

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