

2005 NCR PILOT PROJECT: TERRESTRIAL HABITAT SURVEY DATASHEETS

Date (dd month) _____ **2005** **Observer (full name)** _____

Point # _____ Visit # _____

SURVEY TYPE: COVERBOARD NATURAL

Unit (circle park name):

CHOH ROCR

GPS (dd mm ss.ss) N _____ **W** _____ **Sky code**¹ _____ **Wind code**² _____ **%Canopy Closure**³ _____

Previous Day Precipitation? Y N **amount** (cm)_____ **duration** (hrs)_____

COVERBOARD SURVEY: Time Begin: _____ Time End: _____ Air Temp (°C) _____

NATURAL COVER SURVEY only: # Cover Objects Turned: Rocks (> 6 cm diam.) _____ Woody (>6 cm diam.) _____ Other _____

Time Begin: _____ **Time End:** _____ **Air Temp (°C)** _____

Coverboard							Natural					
	0m	5m	10m	15m	20m			0m	5m	10m	15m	20m
Soil Temp (°C)							Soil Temp (°C)					
Leaf Litter Depth (cm)	X		X		X		Leaf Litter Depth (cm)	X		X		X
Soil Moisture (%)							Soil Moisture (%)					

[illegible]

¹SKY CODE: Do not conduct surveys if sky codes are 6 or above.

Code	Sky Condition
0	Clear or few clouds (< 20% of sky)
1	Partly cloudy or variable (20-50% of sky)
2	Cloudy or overcast (> 50% of sky)
3	Fog
4	Mist
5	Showers or light rain
6	Heavy rain
7	Sleet/Hail
8	Snow

²WIND CODE: Do not conduct surveys if wind codes are 6 or above.

Code	mph	Indicators of Wind Speed
0	< 1	calm , smoke rises vertically
1	2-3	light air movement , smoke drifts
2	4-7	light breeze , wind felt on face, leaves rustle
3	8-12	gentle breeze , leaves/twigs in constant motion, raises dust
4	13-18	moderate breeze , small branches move
5	19-24	fresh breeze , small trees begin to sway
6	25-31	strong breeze , large branches move
7+	> 31	strong winds

³Canopy Closure calculation (using spherical densiometer):

Reading #	Direction (N, E, S, W)	# filled grid squares (veg. cover)	multiply	% canopy closure
			* 4.17	=
			* 4.17	=
			* 4.17	=
			* 4.17	=
			TOTAL	=
			AVE	=

⁴Decay Class Codes

Decay Class	Structural Integrity	Texture of Rotten Portions	Color of Wood	Invading Roots	Branches and Twigs
1	Sound, freshly fallen, intact logs	Intact, no rot; conks of stem decay absent	Original color	Absent	If branches are present, fine twigs are still attached and have tight bark
2	Sound	Mostly intact; sapwood partly soft (starting to decay) but can't be pulled apart by hand	Original color	Absent	If branches are present, many fine twigs are gone and remaining fine twigs have peeling bark
3	Heartwood sound; piece supports its own weight	Hard, large pieces; sapwood can be pulled apart by hand or sapwood absent	Reddish-brown or original color	Sapwood only	Branch stubs will not pull out
4	Heartwood rotten; piece does not support its own weight, but maintains its shape	Soft, small blocky pieces; a metal pin can be pushed into heartwood	Reddish or light brown	Through-out	Branch stubs pull out
5	None, piece no longer maintains its shape, it spreads out on ground	Soft; powdery when dry	Red-brown to dark brown	Through-out	Branch stubs and pitch pockets have usually rotted down

2005 NCR PILOT: TERRESTRIAL SITE COVARIATES DATASHEET
(Complete during Visit #1 only)

Date (dd month) _____ 2005 Observers (full names) _____

Unit Name (circle): **CHOH** **ROCR** _____

Point # _____ Visit # _____ GPS (dd mm ss.ss) N _____ W _____

Slope _____ Aspect _____ Elevation: _____

Distance nearest Road _____ m Type (circle): Paved Gravel Dirt
Distance to nearest Trail _____ m Type (circle): Paved Gravel Dirt

TNC Alliance (National Vegetation Classification System)

System: Terrestrial _____

Physiognomic Class (circle one)

Canopy	100-60%	60-25%	25-10%	<10%
Trees: (>5m)	Forest	Woodland	Sparse Woodland	
Shrubs: (0.5-5m)	Shrubland	Sparse Shrubland		
Dwarf Shrubs: (<0.5m)	Dwarf Shrubland	Sparse Dwarf Shrubland		

Tree/Shrub Subclass (circle one)

Evergreen Deciduous Mixed Evergreen/Deciduous

OR

Herbaceous, Subclass (circle one)

Perennial grassland Perennial Forb Annual grass/forb Hydromorphic vegetation

Non-Vascular, Subclass (circle one):

Lichens Mosses Algae

Sparse, Subclass (circle one):

consolidated rock boulder/gravel/cobble/talus unconsolidated material (soil, sand, or ash)

Adjacent Land Cover Types/Riparian Buffer Zone (within 50 meters of the Lentic site):

<u>Circle</u>	<u>Percent</u>	<u>Type</u>
Y N	_____	Mature Forest (> 12" dbh of most trees)
Y N	_____	Immature Forest ($\leq$ 12" dbh of most trees)
Y N	_____	Clearcut/Logged Area
Y N	_____	Old Field/Pasture/Orchard/Cropland
Y N	_____	Lawn
Y N	_____	Road
Y N	_____	Trail
Y N	_____	Residential
Y N	_____	Parking Lot/Industrial/Commercial
Y N	_____	Other: Describe _____

TO BE COMPLETED IN THE OFFICE using GIS :

Land Use characteristics within 1 km radius of the Lentic site:

Percent land cover/land use:

_____ urban _____ agricultural _____ forest _____ impervious surface

Road density _____ / m²

Wetland density _____ / m²

Stream density _____ /m²

Distance to nearest wetland _____ m

Distance to nearest stream _____ m