Appendix 2.3-1

Summary Statistics for the Vegetation Parameters
Measured in Study Area Cover Types
Appendix 2.3-1
Vegetation Data Tables

Shrub Cover by Species, and Tall Shrub/Low Shrub/Tall Forb Groups
Herbaceous Cover (Sum of %, Average)
Average Shrub Height
Low Herbaceous Height
Low Shrub/Tall Forb Height
Snag dbh Analysis
Appendix 2.3-1
Vegetation Data Tables

Shrub Cover by Species, and Tall Shrub/Low Shrub/Tall Forb Groups
### Shrub Cover

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Appendix 2.3-1
Vegetation Data Tables

Herbaceous Cover (Sum of %, Average)
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Appendix 2.3-1
Vegetation Data Tables

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Total Min of Height (cm): **34.0**  
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## Habitat OG

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### Habitat P

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Vegetation Data Tables

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Total StdDev of Low (cm)  | 13.1
Total Min of Low (cm)     | 3.0
Total Max of Low (cm)     | 100.0
Total Count of Low (cm)   | 80.0
## Habitat MX

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Total Count of Low (cm)   | 60.0

## Habitat OG

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Total StdDev of Low (cm)  | 10.4
Total Min of Low (cm)     | 5.0
Total Max of Low (cm)     | 61.0
Total Count of Low (cm)   | 60.0
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Total Count of Low (cm)  | 60.0
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**Total**

- Average of Low (cm): 20.9
- StdDev of Low (cm): 12.2
- Min of Low (cm): 5.0
- Max of Low (cm): 68.0
- Count of Low (cm): 120.0
Appendix 2.3-1
Vegetation Data Tables

Low Shrub/Tall Forb Height
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Total Min of High (cm) 5.0  
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Total Count of High (cm) 60.0  

### Habitat M

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Total Min of High (cm) 12  
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### Habitat MD

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Total Count of High (cm) 17.0

### Habitat MS

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   Count of High (cm) 20.0

2  1 Average of High (cm) 53.7
   StdDev of High (cm) 25.9
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   Max of High (cm) 100.0
   Count of High (cm) 20.0

2  2 Average of High (cm) 63.3
   StdDev of High (cm) 28.0
   Min of High (cm) 13.0
   Max of High (cm) 114.0
   Count of High (cm) 20.0

Total Average of High (cm) 68.2
Total StdDev of High (cm) 27.2
Total Min of High (cm) 13.0
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Total Count of High (cm) 80.0
### Habitat MX

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Total Count of High (cm) 60.0

### Habitat OG

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### Habitat P

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Total Min of High (cm) 21.0
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Appendix 2.3-1
Vegetation Data Tables

Snag dbh Analysis
## Habitat LPP

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- Count of Snag DBH (cm)  | 30.0  
- Max of Snag DBH (cm)    | 87.0  
- Min of Snag DBH (cm)    | 5.0   
- StdDev of Snag DBH (cm) | 20.3  

## Habitat M

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**Total**
- Average of Snag DBH (cm) | 42.9  
- Count of Snag DBH (cm)  | 32.0  
- Max of Snag DBH (cm)    | 110.0 |
- Min of Snag DBH (cm)    | 8.0   
- StdDev of Snag DBH (cm) | 24.2  

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Page 1
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### Habitat MX

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Appendix 3.3-1

List of Plant Species Identified in the Yale Study Area
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### List of plant species identified in the Yale Project study area.

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# List of plant species identified in the Yale Project study area.

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<td>woodland strawberry</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Fragaria virginiana var. platypetala</em></td>
<td>large petal strawberry, wild strawberry</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Geum macrophyllum</em></td>
<td>large leaved avens</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Holodiscus discolor</em></td>
<td>creambush oceanspray</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Oemleria cerasiformis</em></td>
<td>osoberry</td>
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<tr>
<td>Rosaceae</td>
<td><em>Potentilla glandulosa</em></td>
<td>sicky cinquefoil</td>
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<tr>
<td>Rosaceae</td>
<td><em>Rosa gymnocarpa</em></td>
<td>little wild rose</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rosa sp.</em></td>
<td>rose</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rubus laciniatus</em></td>
<td>evergreen blackberry, cut leaved blackberry</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rubus leucodermis var. leucodermis</em></td>
<td>western black raspberry, western blackcap</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rubus procerus</em></td>
<td>Himalayan blackberry</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rubus spectabilis</em></td>
<td>salmonberry</td>
</tr>
<tr>
<td>Rosaceae</td>
<td><em>Rubus ursinus</em></td>
<td>Pacific blackberry, Pacific dewberry</td>
</tr>
<tr>
<td>Rubiaceae</td>
<td><em>Galium asperrimum</em></td>
<td>rough bedstraw</td>
</tr>
<tr>
<td>Rubiaceae</td>
<td><em>Galium cymosum</em></td>
<td>Pacific bedstraw</td>
</tr>
<tr>
<td>Rubiaceae</td>
<td><em>Galium trifidum</em></td>
<td>small bedstraw</td>
</tr>
<tr>
<td>Rubiaceae</td>
<td><em>Galium triflorum</em></td>
<td>sweetscented bedstraw</td>
</tr>
<tr>
<td>Salicaceae</td>
<td><em>Populus trichocarpa</em></td>
<td>black cottonwood</td>
</tr>
<tr>
<td>Salicaceae</td>
<td><em>Salix sitchensis</em></td>
<td>Sitka willow</td>
</tr>
<tr>
<td>Salicaceae</td>
<td><em>Salix sp.</em></td>
<td>willow</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Boykinia occidentalis</em></td>
<td>slender boykinia, coast boykinia</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Castilleja hispida</em></td>
<td>harsh paintbrush</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Heuchera micrantha</em></td>
<td>alumroot</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Mitella caulescens</em></td>
<td>leafy mitrewort</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Saxifraga ferruginea</em></td>
<td>rusty saxifrage</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Tellima grandiflora</em></td>
<td>large fringecup</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Tiarella trifoliata</em></td>
<td>foam flower</td>
</tr>
<tr>
<td>Saxifragaceae</td>
<td><em>Tolmiea menziesii</em></td>
<td>piggyback plant</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Digitalis purpurea</em></td>
<td>foxglove</td>
</tr>
</tbody>
</table>
List of plant species identified in the Yale Project study area.

<table>
<thead>
<tr>
<th>Family</th>
<th>Taxon</th>
<th>Common</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scrophulariaceae</td>
<td><em>Mimulus guttatus</em></td>
<td>seep monkeyflower, common monkeyflower</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Mimulus moschatus</em></td>
<td>musk monkeyflower</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Nothochelone nemorosa</em></td>
<td>woodland beard tongue</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Penstemon serrulatus</em></td>
<td>coast penstemon, Cascades penstemon</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Scrophularia californica ssp. californica</em></td>
<td>California figwort</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Veronica americana</em></td>
<td>American brooklime</td>
</tr>
<tr>
<td>Scrophulariaceae</td>
<td><em>Veronica officinalis</em></td>
<td>common speedwell, heath speedwell</td>
</tr>
<tr>
<td>Selaginellaceae</td>
<td><em>Selaginella wallacei</em></td>
<td>Wallace’s selaginella, Wallace’s spikemoss</td>
</tr>
<tr>
<td>Solanaceae</td>
<td><em>Solanum dulcamara</em></td>
<td>bittersweet, climbing nightshade</td>
</tr>
<tr>
<td>Sparganiaceae</td>
<td><em>Sparganium emersum</em></td>
<td>simplestem bur reed</td>
</tr>
<tr>
<td>Typhaceae</td>
<td><em>Typha latifolia</em></td>
<td>common cattail, broad leaf cattail</td>
</tr>
<tr>
<td>Urticaceae</td>
<td><em>Urtica dioica</em></td>
<td>stinging nettle</td>
</tr>
<tr>
<td>Valerianaceae</td>
<td><em>Valeriana sitchensis</em></td>
<td>Sitka valerian</td>
</tr>
<tr>
<td>Violaceae</td>
<td><em>Viola glabella</em></td>
<td>stream violet, pioneer violet</td>
</tr>
<tr>
<td>Violaceae</td>
<td><em>Viola orbiculata</em></td>
<td>darkwoods violet, round leaved violet</td>
</tr>
<tr>
<td>Violaceae</td>
<td><em>Viola sempervirens</em></td>
<td>redwoods violet, evergreen violet</td>
</tr>
</tbody>
</table>
Appendix 4.2-1

Standard Field Forms
Yale Hydroelectric Project
SEASONAL WILDLIFE SURVEY OBSERVATION FORM

Survey Location Ref. No.________ Habitat:__________ Date:______________ Observer(s):_______________________

Weather Conditions (circle one): clear partly cloudy cloudy light rain heavy rain foggy snow

Wind Conditions (circle one): calm light wind strong wind Estimated Temperature (°F):________

<table>
<thead>
<tr>
<th>Start/Stop Time</th>
<th>Species Observed Within Survey Plot</th>
<th>Observation Type</th>
<th>Singing Adult Male</th>
<th>Other Adult</th>
<th>Juvenile</th>
<th>Total Number</th>
<th>Activity/Comments*</th>
<th>Species Observed/Heard Outside Survey Plot or Fly-overs (include habitat)</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

* Include habitat data for wetlands and riparian areas (i.e., shrub, cattails, etc.)

Notes:
Yale Hydroelectric Project
INCIDENTAL WILDLIFE OBSERVATION FORM

Date: ___________  Observer(s): ___________

Weather Conditions (circle one): clear  partly cloudy  cloudy  light rain  heavy rain  foggy  snow

Wind Conditions (circle one):  calm  light wind  strong wind

Estimated Temperature (°F): ___________

<table>
<thead>
<tr>
<th>Time</th>
<th>Species Observed</th>
<th>Observation Type</th>
<th>Observation Location (e.g., plot no.)</th>
<th>Note No. of Each, If Possible</th>
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</thead>
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</tbody>
</table>

* Include habitat data for wetlands and riparian areas (i.e., shrub, cattails, etc.)

Notes:
Yale Project Stream Amphibian Survey Form

<table>
<thead>
<tr>
<th>Sampling Station/ Location</th>
<th>Species Observed</th>
<th>Stage</th>
<th>Total Length (mm)</th>
<th>S-V Length (mm)</th>
<th>General Habitat Type</th>
<th>Specific Habitat Characteristics</th>
<th>Stream Substrate</th>
<th>Distance from Stream (m)</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>
| Length of Stream Surveyed (ft): _____________
Yale Terrestrial Amphibian Survey Form Instructions

Site Name: descriptive site name and habitat type
Survey Type: record as transect, total area, or night
Observers initials of observers
Date: month/day/year
Start/Stop Time survey time for stream as a whole (not survey points)
Site Aspect: N, S, E, W, NE, SE, SW, or NW
Site Slope: approximate slope in degrees
Rock Type: gravel, cobble, bolder, bedrock
Soil Temp.: degrees C (measure at 25m intervals)
Soil Moisture dry, moist, wet
Canopy Coverage: approximate canopy coverage (%)
Fog? Is it foggy in immediate area?
Cloud cover: cloudy, p. cloudy, clear
Temperature: air temperature (degrees C)
Precipitation: none, l. rain, moderate rain, heavy rain, snow
Dominant Plant Species: list up to 3 dominant species
Stand Age: OG = old-growth, M=mature, Y=young, P=pole, S=sapling, CC=clearcut
Transect No.: numerical transect number
Sampling Station/Location: feet from downstream end; enter the location of important features (e.g., waterfalls) and the end-point of the survey
Species enter common name of species observed
Stage adult, subadult, juvenile, hatchling, larvae, neotenic
Total Length total length (mm)
S-V Length snout to vent length (mm)
General Habitat Type i.e., RUB, RUS, PSS, etc.
Specific Habitat Characteristics i.e., found under log, in litter, under rocks, etc.
CWD coarse woody debris--BARK, SLAB, BRAN (< 10 cm dia), LOG1 (11-25cm)
LOG2 (26-50cm), LOG3 (51-100cm), LOG4 (>100cm)
Comments photo number and additional comments
Yale Project Terrestrial Amphibian Survey Form

Site Name: ___________________________  Start Time: ___________________________  Rock Type: ___________________________  Fog? ___________________________

Survey Type: transect, total, or night  Stop Time: ___________________________  Soil Temp. (C): ___________________________

Observers: ___________________________  Site Aspect: ___________________________  Soil Moisture: D M W

Date: ___________________________  Site Slope: ___________________________  Temperature (C): ___________________________

Dominant Plant Species: ___________________________

<table>
<thead>
<tr>
<th>Transect Number</th>
<th>Sampling Station/ Location</th>
<th>Species</th>
<th>Stage</th>
<th>Total Length (mm)</th>
<th>S-V Length (mm)</th>
<th>General Habitat Type</th>
<th>Specific Habitat Characteristics</th>
<th>Comments</th>
</tr>
</thead>
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</tbody>
</table>

Length of Each Transect Surveyed (ft): ____________________________________________________________
Yale Terrestrial Amphibian Survey Form Instructions

Site Name: descriptive site name and habitat type
Survey Type: record as transect, total area, or night
Observers initials of observers
Date: month/day/year
Start/Stop Time survey time for stream as a whole (not survey points)
Site Aspect: N, S, E, W, NE, SE, SW, or NW
Site Slope: approximate slope in degrees
Rock Type: gravel, cobble, bolder, bedrock
Soil Temp.: degrees C (measure at 25m intervals)
Soil Moisture: dry, moist, wet
Canopy Coverage: approximate canopy coverage (%)
Fog? Is it foggy in immediate area?
Cloud cover: cloudy, p. cloudy, clear
Temperature: air temperature (degrees C)
Precipitation: none, l. rain, moderate rain, heavy rain, snow
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Stage adult, subadult, juvenile, hatchling, larvae, neotenic
Total Length total length (mm)
S-V Length snout to vent length (mm)
General Habitat Type i.e., RUB, RUS, PSS, etc.
Specific Habitat Characteristics i.e., found under log, in litter, under rocks, etc.
CWD coarse woody debris--BARK, SLAB, BRAN (< 10 cm dia), LOG1 (11-25cm)
LOG2 (26-50cm), LOG3 (51-100cm), LOG4 (>100cm)
Comments photo number and additional comments
Appendix 4.3-1

List of Common and Scientific Names for Wildlife Species
<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Amphibians</strong></td>
<td></td>
</tr>
<tr>
<td>western red-backed salamander</td>
<td><em>Plethodon vehiculum</em></td>
</tr>
<tr>
<td>rough-skinned newt</td>
<td><em>Taricha granulosa</em></td>
</tr>
<tr>
<td>ensatina</td>
<td><em>Ensatina eschscholtzii</em></td>
</tr>
<tr>
<td>Pacific giant salamander</td>
<td><em>Dicamptodon tenebrosus</em></td>
</tr>
<tr>
<td>Cope’s giant salamander</td>
<td><em>Dicamptodon copei</em></td>
</tr>
<tr>
<td>Cascade torrent salamander</td>
<td><em>Rhyacortiton cascadae</em></td>
</tr>
<tr>
<td>Larch Mountain salamander</td>
<td><em>Plethodon larselli</em></td>
</tr>
<tr>
<td>Van Dyke’s salamander</td>
<td><em>Plethodon vandykei</em></td>
</tr>
<tr>
<td>long-toed salamander</td>
<td><em>Ambystoma macrodactylum</em></td>
</tr>
<tr>
<td>northwestern salamander</td>
<td><em>Ambystoma gracile</em></td>
</tr>
<tr>
<td>Pacific chorus frog</td>
<td><em>Hyla regala</em></td>
</tr>
<tr>
<td>northern red-legged frog</td>
<td><em>Rana aurora</em></td>
</tr>
<tr>
<td>tailed frog</td>
<td><em>Ascaphus truei</em></td>
</tr>
<tr>
<td>bullfrog</td>
<td><em>Rana catesbeiana</em></td>
</tr>
<tr>
<td>western toad</td>
<td><em>Bufo boreas</em></td>
</tr>
<tr>
<td><strong>Reptiles</strong></td>
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<tr>
<td>common garter snake</td>
<td><em>Thamnophis sirtalis</em></td>
</tr>
<tr>
<td>northwestern garter snake</td>
<td><em>Thamnophis ordinoides</em></td>
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<tr>
<td>rubber boa</td>
<td><em>Charina bottae</em></td>
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<tr>
<td>northern alligator lizard</td>
<td><em>Elgaria coerulea</em></td>
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<tr>
<td>painted turtle</td>
<td><em>Chrysemys picta</em></td>
</tr>
<tr>
<td><strong>Waterfowl and Waterbirds</strong></td>
<td></td>
</tr>
<tr>
<td>common loon</td>
<td><em>Gavia immer</em></td>
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<tr>
<td>western grebe</td>
<td><em>Aechmophorus occidentalis</em></td>
</tr>
<tr>
<td>pied-billed grebe</td>
<td><em>Podilymbus podiceps</em></td>
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<tr>
<td>double-crested cormorant</td>
<td><em>Phalacrocorax auritus</em></td>
</tr>
<tr>
<td>Canada goose</td>
<td><em>Branta canadensis</em></td>
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<td>mallard</td>
<td><em>Anas platyrhynchos</em></td>
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<td>American wigeon</td>
<td><em>Anas americana</em></td>
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<td>blue-winged teal</td>
<td><em>Anas discors</em></td>
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<td>wood duck</td>
<td><em>Aix sponsa</em></td>
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<td>lesser scaup</td>
<td><em>Aythya affinis</em></td>
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<td>ring-necked duck</td>
<td><em>Aythya collaris</em></td>
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<td><em>Bucephala albeola</em></td>
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<td><em>Mergus merganser</em></td>
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<td>hooded merganser</td>
<td><em>Lophodytes cucullatus</em></td>
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<td><strong>Gulls and Shorebirds</strong></td>
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<tr>
<td>Caspian tern</td>
<td><em>Sterna caspia</em></td>
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<tr>
<td>glaucous-winged gull</td>
<td><em>Larus glaucescens</em></td>
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<tr>
<td>ring-bill gull</td>
<td><em>Larus delawarensis</em></td>
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<tr>
<td>California gull</td>
<td><em>Larus californicus</em></td>
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<td>great blue heron</td>
<td><em>Ardea herodias</em></td>
</tr>
<tr>
<td>green-backed heron</td>
<td><em>Butorides striatus</em></td>
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<tr>
<td>killdeer</td>
<td><em>Charadrius vociferus</em></td>
</tr>
<tr>
<td>spotted sandpiper</td>
<td><em>Actitis macularia</em></td>
</tr>
<tr>
<td><strong>Raptors, Vultures, and Owls</strong></td>
<td></td>
</tr>
<tr>
<td>bald eagle</td>
<td><em>Haliaeetus leucocephalus</em></td>
</tr>
<tr>
<td>sharp-shinned hawk</td>
<td><em>Accipiter striatus</em></td>
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<tr>
<td>red-tailed hawk</td>
<td><em>Buteo jamaicensis</em></td>
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<tr>
<td>osprey</td>
<td><em>Pandion haliaetus</em></td>
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<td>great horned owl</td>
<td><em>Bubo virginianus</em></td>
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<tr>
<td>barred owl</td>
<td><em>Strix varia</em></td>
</tr>
<tr>
<td>northern spotted owl</td>
<td><em>Strix occidentalis</em></td>
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</table>
List of common and scientific names for wildlife species at the Yale Hydroelectric Project.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
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<tbody>
<tr>
<td>pygmy owl</td>
<td>Glaucidium gnoma</td>
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<tr>
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<td>Cathartes aura</td>
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<td><strong>Gamebirds</strong></td>
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<tr>
<td>band-tailed pigeon</td>
<td>Columba fasciata</td>
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<tr>
<td>mourning dove</td>
<td>Zenaida macroura</td>
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<tr>
<td>blue grouse</td>
<td>Dendragapus obscurus</td>
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<tr>
<td>ruffed grouse</td>
<td>Bonasa umbellus</td>
</tr>
<tr>
<td>common snipe</td>
<td>Gallinago gallinago</td>
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<tr>
<td>wild turkey</td>
<td>Meleagris gallopavo</td>
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<tr>
<td><strong>Nightjars, Swifts, and Hummingbirds</strong></td>
<td></td>
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<tr>
<td>belted kingfisher</td>
<td>Ceryle alcyon</td>
</tr>
<tr>
<td>Vaux’s swift</td>
<td>Chaetura vauxi</td>
</tr>
<tr>
<td>common nighthawk</td>
<td>Chordeiles minor</td>
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<td>rufous hummingbird</td>
<td>Selasphorus rufus</td>
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<tr>
<td>black-chinned hummingbird</td>
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<td><strong>Woodpeckers</strong></td>
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<td>Sphyrapicus ruber</td>
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<td>Dryocopus pileatus</td>
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<tr>
<td>common flicker</td>
<td>Colaptes auratus</td>
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<td>downy woodpecker</td>
<td>Picoides pubescens</td>
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<td>hairy woodpecker</td>
<td>Picoides villosus</td>
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<td><strong>Flycatchers and Swallows</strong></td>
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</tr>
<tr>
<td>Hammond’s flycatcher</td>
<td>Empidonax hammondii</td>
</tr>
<tr>
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<td>Empidonax alnorum</td>
</tr>
<tr>
<td>western flycatcher</td>
<td>Empidonax difficilis</td>
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<tr>
<td>Pacific slope flycatcher</td>
<td>Empidonax occidentalis</td>
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<tr>
<td>willow flycatcher</td>
<td>Empidonax traillii</td>
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<tr>
<td>olive-sided flycatcher</td>
<td>Contopus borealis</td>
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<tr>
<td>western wood-pewee</td>
<td>Contopus sordinulus</td>
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<tr>
<td>tree swallow</td>
<td>Tachycineta bicolor</td>
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<tr>
<td>violet green swallow</td>
<td>Tachycineta thalassina</td>
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<tr>
<td>cliff swallow</td>
<td>Hirundo pyrrhonta</td>
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<tr>
<td>barn swallow</td>
<td>Hirundo rustica</td>
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<tr>
<td>northern rough-winged swallow</td>
<td>Stelgidopteryx serripennis</td>
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<td><strong>Jays and Crows</strong></td>
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<tr>
<td>scrub jay</td>
<td>Aphelocoma coerulescens</td>
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<tr>
<td>Steller’s jay</td>
<td>Cyanocitta stelleri</td>
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<td>American crow</td>
<td>Corvus brachyrhynchos</td>
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<tr>
<td>common raven</td>
<td>Corvus corax</td>
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<tr>
<td>brown-headed cowbird</td>
<td>Molothrus ater</td>
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<tr>
<td>brown creeper</td>
<td>Certhia americana</td>
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<tr>
<td><strong>Chickadees, Wrens and Thrushes</strong></td>
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</tr>
<tr>
<td>black-capped chickadee</td>
<td>Parus atricapillus</td>
</tr>
<tr>
<td>mountain chickadee</td>
<td>Parus gambeli</td>
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<tr>
<td>chestnut-backed chickadee</td>
<td>Parus rafescens</td>
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<tr>
<td>bushtit</td>
<td>Psaltriparus minimus</td>
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<td>Sitta carolinensis</td>
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<td>red-breasted nuthatch</td>
<td>Sitta canadensis</td>
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<td>winter wren</td>
<td>Troglodytes troglodytes</td>
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<td>Cistothorus palustris</td>
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<td>Regulus satrapa</td>
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<tr>
<td>ruby-crowned kinglet</td>
<td>Regulus calendula</td>
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<td>Catharus guttatus</td>
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<tr>
<td>Swainson’s thrush</td>
<td>Catharus ustulatus</td>
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</table>
List of common and scientific names for wildlife species at the Yale Hydroelectric Project.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
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<tbody>
<tr>
<td>varied thrush</td>
<td>Isoreus naevius</td>
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<td>Turdus migratorius</td>
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<td>American dipper</td>
<td>Cinclus mexicanus</td>
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<td>cedar waxwing</td>
<td>Bombycilla cedrorum</td>
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<td>European starling</td>
<td>Sturnus vulgaris</td>
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<td><strong>Vireos and Warblers</strong></td>
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<tr>
<td>Hutton’s vireo</td>
<td>Vireo huttoni</td>
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<tr>
<td>solitary vireo</td>
<td>Vireo solitarius</td>
</tr>
<tr>
<td>warbling vireo</td>
<td>Vireo gilvus</td>
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<tr>
<td>orange-crowned warbler</td>
<td>Vermivora celata</td>
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<tr>
<td>black-throated gray warbler</td>
<td>Dendroica nigrescens</td>
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<tr>
<td>yellow warbler</td>
<td>Dendroica petechia</td>
</tr>
<tr>
<td>yellow-rumped warbler</td>
<td>Dendroica coronata</td>
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<tr>
<td>Nashville warbler</td>
<td>Vermivora ruficapilla</td>
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<td>MacGillivary’s warbler</td>
<td>Oporornis tolmiei</td>
</tr>
<tr>
<td>Heto warbler</td>
<td>Dendroica occidentalis/townsendii</td>
</tr>
<tr>
<td>hermit warbler</td>
<td>Dendroica occidentalis</td>
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<tr>
<td>Wilson’s warbler</td>
<td>Wilsonia pusilla</td>
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<tr>
<td>common yellowthroat</td>
<td>Geothlypis trichas</td>
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<tr>
<td>Townsend’s warbler</td>
<td>Dendroica townsendi</td>
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<td><strong>Grosbeaks, Buntings, and Sparrows</strong></td>
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<td>black-headed grosbeak</td>
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<td>Coccothraustes vespertinus</td>
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<td>Lazuli bunting</td>
<td>Passerina amoena</td>
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<td>song sparrow</td>
<td>Melospiza melodia</td>
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<td>chipping sparrow</td>
<td>Spizella passerina</td>
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<td>dark-eyed junco</td>
<td>Junco hyemalis</td>
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<td>Zonotrichia leucophrys</td>
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<td>golden-crowned sparrow</td>
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<td>pine siskin</td>
<td>Carduelis pinus</td>
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<td><strong>Blackbirds, Orioles, and Finches</strong></td>
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<td>red-winged blackbird</td>
<td>Agelaius phoeniceus</td>
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<td>Brewer’s blackbird</td>
<td>Euphagus cyanocephalus</td>
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<td>Icterus galbula</td>
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<tr>
<td>Bullock’s oriole</td>
<td>Icterus galbula bullockii</td>
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<td>western tanager</td>
<td>Piranga ludoviciana</td>
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<td>American goldfinch</td>
<td>Carduelis tristis</td>
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<td>red crossbill</td>
<td>Loxia curvirostra</td>
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<td>purple finch</td>
<td>Carpodacus purpureus</td>
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<tr>
<td><strong>Mammals</strong></td>
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<tr>
<td>Pacific western big-eared bat</td>
<td>Corynorhinus townsendii towsendii</td>
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<tr>
<td>Townsend chipmunk</td>
<td>Tamias townsendii</td>
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<tr>
<td>Douglas squirrel</td>
<td>Tamiasciurus douglasii</td>
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<td>beaver</td>
<td>Castor canadensis</td>
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<tr>
<td>mink</td>
<td>Mustela vison</td>
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<tr>
<td>striped skunk</td>
<td>Mephitis mephitis</td>
</tr>
<tr>
<td>coyote</td>
<td>Canis lupus</td>
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<tr>
<td>bobcat</td>
<td>Lynx rufus</td>
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<tr>
<td>black bear</td>
<td>Ursus americanus</td>
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<tr>
<td>black-tailed deer</td>
<td>Odocoileus hemionus</td>
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<td>elk</td>
<td>Cervus elaphus</td>
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<td>pocket gopher</td>
<td>Thomomys spp.</td>
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<td>raccoon</td>
<td>Procyon lotor</td>
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</table>
Appendix 4.3-2

Survey Data for Amphibians and Reptiles
Appendix 4.3-2
Survey Data for Amphibians and Reptiles

September 1996 Electroshocking survey results
  1996 Amphibian Trapping Data
  1997 Amphibian Trapping Data
March 3-4 1997 Terrestrial amphibian survey results
  1996-1997 Terrestrial amphibian survey results
  1996-1997 In-stream amphibian survey results
Appendix 4.3-2
Survey Data for Amphibians and Reptiles

September 1996 Electroshocking survey results
## September 1996 Electroshocking survey results, Yale Hydroelectric Project.

<table>
<thead>
<tr>
<th>Creek/Pond (Date)</th>
<th>Species</th>
<th>Number</th>
<th>Stage</th>
<th>Location</th>
<th>Habitat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ole Creek (9/9)</td>
<td>Red-legged frog</td>
<td>1</td>
<td>Adult</td>
<td>87 ft</td>
<td>RUS/RUB</td>
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<tr>
<td></td>
<td>Northwestern garter snake</td>
<td>1</td>
<td>Adult</td>
<td>195 ft</td>
<td>RUS/RD</td>
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<tr>
<td></td>
<td>Pacific giant salamander</td>
<td>1</td>
<td>Larva</td>
<td>1,815 ft</td>
<td>RUB</td>
</tr>
<tr>
<td></td>
<td>Pacific giant salamander</td>
<td>1</td>
<td>Larva</td>
<td>2,548 ft</td>
<td>RUB</td>
</tr>
<tr>
<td></td>
<td>Red-legged frog</td>
<td>1</td>
<td>Adult</td>
<td>3,787 ft</td>
<td>RUS</td>
</tr>
<tr>
<td></td>
<td>Cascade torrent salamander</td>
<td>1</td>
<td>Adult</td>
<td>5,535 ft</td>
<td>RUS/Seep</td>
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<tr>
<td>Rain Creek (9/10)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Panamaker Creek (9/11)</td>
<td>Western toad</td>
<td>1</td>
<td>Adult</td>
<td>2,365 ft</td>
<td>RUS</td>
</tr>
<tr>
<td>Dog Creek (9/10)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cougar Creek (9/11)</td>
<td>Cascade Torrent Salamander</td>
<td>2</td>
<td>Adult</td>
<td>headwater RUS</td>
<td></td>
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<tr>
<td>Beaver Bay Wetland (9/11)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Perennial IP Road Stream (9/11)</td>
<td>None</td>
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<td>IP Road Tributary/Pond (9/11)</td>
<td>None</td>
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<td>IP Road Wetlands (9/11)</td>
<td>Bullfrog</td>
<td>20</td>
<td>Adult</td>
<td>Pond</td>
<td>PUB/AB</td>
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<tr>
<td></td>
<td>Chorus Frog</td>
<td>1</td>
<td>Adult</td>
<td>Forest</td>
<td>RF</td>
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<td></td>
<td>Northwestern Salamander</td>
<td>3</td>
<td>Larvae</td>
<td>Pond</td>
<td>PUB/AB</td>
</tr>
<tr>
<td>Lower Bypass Reach (9/12, 17-20)</td>
<td>Red-legged Frog</td>
<td>1</td>
<td>Adult</td>
<td>Side Channel</td>
<td>RD/RUB</td>
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<tr>
<td></td>
<td>Tailed Frog</td>
<td>4</td>
<td>Larvae</td>
<td>Riffle</td>
<td>RUB</td>
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<tr>
<td>Upper Bypass Reach Pond</td>
<td>Northwestern Salamander</td>
<td>4</td>
<td>Larvae</td>
<td>Pond</td>
<td>PUB/PEM</td>
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Appendix 4.3-2
Survey Data for Amphibians and Reptiles

1996 Amphibian Trapping Data
<table>
<thead>
<tr>
<th>Trap No.</th>
<th>Trap Placement/ Vegetation</th>
<th>Water Depth (in.)</th>
<th>Funnel Depth (in.)</th>
<th>Species¹</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Species¹</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>WL-1-1</td>
<td>near shore</td>
<td>34&quot;</td>
<td>14&quot; from bottom</td>
<td>NWS</td>
<td>neotenic</td>
<td>1</td>
<td></td>
<td></td>
<td>dragonfly</td>
<td>larval</td>
<td></td>
<td></td>
<td></td>
<td>salamander injured; no sample collected</td>
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<tr>
<td>WL-1-2</td>
<td>near shore</td>
<td>28&quot;</td>
<td>20&quot; from surface</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>WL-1-3</td>
<td>near shore</td>
<td>29&quot;</td>
<td>9&quot; from surface</td>
<td>dragonfly</td>
<td>larval</td>
<td>RSN</td>
<td></td>
<td></td>
<td>adult</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>small hole in bottom of trap</td>
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<tr>
<td>WL-1-4</td>
<td>near shore</td>
<td>28&quot;</td>
<td>5&quot; from surface</td>
<td>empty</td>
<td></td>
<td>RSN</td>
<td></td>
<td></td>
<td>adult</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>WL-1-5</td>
<td>near shore</td>
<td>28&quot;</td>
<td>16&quot; from surface</td>
<td>empty</td>
<td></td>
<td>RSN</td>
<td></td>
<td></td>
<td>adult</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
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<td>WL-1-6</td>
<td>away from shore,</td>
<td>19&quot;</td>
<td>10&quot; from bottom</td>
<td>empty</td>
<td></td>
<td>RSN</td>
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<td></td>
<td>adult</td>
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<td></td>
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<tr>
<td>WL-1-7</td>
<td>away from shore,</td>
<td>24&quot;</td>
<td>8&quot; from surface</td>
<td>RSN</td>
<td>adult</td>
<td>RSN</td>
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<td>4</td>
<td>adult</td>
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<td>2</td>
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<td>WL-1-8</td>
<td>away from shore,</td>
<td>19&quot;</td>
<td>10&quot; from surface</td>
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<td></td>
<td>RSN</td>
<td></td>
<td></td>
<td>adult</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td></td>
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<tr>
<td>WL-1-9</td>
<td>away from shore,</td>
<td>21&quot;</td>
<td>10&quot; from surface</td>
<td>empty</td>
<td></td>
<td>RSN</td>
<td></td>
<td></td>
<td>adult</td>
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<td></td>
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</tr>
<tr>
<td>WL-1-10</td>
<td>away from shore,</td>
<td>7&quot;</td>
<td>3&quot; from surface</td>
<td>empty</td>
<td></td>
<td>RSN</td>
<td></td>
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<td>adult</td>
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<td></td>
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<td>WL-1-11</td>
<td>near shore</td>
<td>11.5&quot;</td>
<td>9&quot; from bottom</td>
<td>CF</td>
<td>tadpole</td>
<td>RSN</td>
<td></td>
<td>5</td>
<td>adult</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
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</tr>
<tr>
<td>WL-1-12</td>
<td>near shore</td>
<td>16&quot;</td>
<td>12&quot; from bottom</td>
<td>CF</td>
<td>tadpole</td>
<td>NWS</td>
<td></td>
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</tr>
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¹Species codes:
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog
### Trap Descriptions

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<th>Water Depth (in.)</th>
<th>Funnel Depth (in.)</th>
<th>Species’</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Species’</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
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<td>empty</td>
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<td>16&quot; from surface</td>
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<td>RSN adult</td>
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<td>RSN adult</td>
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<td>9&quot; from surface</td>
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<tr>
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<td>7&quot; from surface</td>
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Species codes:
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog
### 1996 Amphibian Trapping Data - Beaver Bay Wetland

<table>
<thead>
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<th>Trap Placement/ Vegetation</th>
<th>Water Depth (in.)</th>
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<th>Total Length SVL</th>
<th>No. of Individuals</th>
<th>Species' Stage</th>
<th>Total Length SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
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<td></td>
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<td>stickleback</td>
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<td>1</td>
<td>rana sp. tadpole</td>
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</tr>
<tr>
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<td>10&quot; from bottom</td>
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<td>1&quot; from surface</td>
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<td>13&quot; from surface</td>
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<td>12&quot; from surface</td>
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<tr>
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<td>13.5&quot; from surface</td>
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- CF = Chorus Frog
Appendix 4.3-2
Survey Data for Amphibians and Reptiles

1997 Amphibian Trapping Data
### 1997 Amphibian Trapping Data - IP Large Wetland

<table>
<thead>
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<th>SVL</th>
<th>Total No. of Individuals</th>
<th>Species</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
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</tr>
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<td>13</td>
<td>7</td>
<td>RSN</td>
<td>larvae</td>
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</tr>
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<td>13</td>
<td>5</td>
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<td>5</td>
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<td>1</td>
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<td></td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>6</td>
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<td>19</td>
<td>14</td>
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<td>larvae</td>
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<td>RLF</td>
<td>tadpole</td>
<td></td>
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</tbody>
</table>

*Species codes:*
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog

### 1997 Amphibian Trapping Data - IP Small Wetland

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<th>Water Depth (in.)</th>
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<th>Stage</th>
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<th>Species</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
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<td>19</td>
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<tr>
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*Species codes:*
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog
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<th>Stage</th>
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<th>No. of Individuals</th>
<th>Species¹</th>
<th>Stage</th>
<th>Total Length SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
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<td>5</td>
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<td>26</td>
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<td>adjacent to fallen log, 5 ft. from pond edge, sedges</td>
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<td>5</td>
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<td>56</td>
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<td>adult</td>
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<td>5</td>
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<td>tadpole</td>
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<td>RSN</td>
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<tr>
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<td>RLF</td>
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<td>RLF</td>
<td>tadpole</td>
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</tr>
<tr>
<td>8</td>
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</table>

¹Species codes:
- RSN = Rough-skinned Newt
- NWS= Northwestern Salamander
- RLF= Red-legged Frog
- CF= Chorus Frog
<table>
<thead>
<tr>
<th>Trap No.</th>
<th>Trap Placement/ Vegetation</th>
<th>Water Depth (in.)</th>
<th>Funnel Depth (in.)</th>
<th>Species (^1)</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Species (^1)</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
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\(^1\)Species codes:
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog
<table>
<thead>
<tr>
<th>Trap No.</th>
<th>Trap Placement/ Vegetation</th>
<th>Water Depth (in.)</th>
<th>Funnel Depth (in.)</th>
<th>Species</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Species</th>
<th>Stage</th>
<th>Total Length</th>
<th>SVL</th>
<th>No. of Individuals</th>
<th>Comments</th>
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<td>1 year old BF</td>
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Species codes:
- RSN = Rough-skinned Newt
- NWS = Northwestern Salamander
- RLF = Red-legged Frog
- CF = Chorus Frog
Appendix 4.3-2
Survey Data for Amphibians and Reptiles

March 3-4 1997 Terrestrial amphibian survey results
### March 3/4, 1997 egg mass survey results, Yale Hydroelectric Project.

<table>
<thead>
<tr>
<th>Sampling Location</th>
<th>Species</th>
<th>Eggs</th>
<th>Larva</th>
<th>Adults</th>
<th>substrate</th>
<th>water depth</th>
<th>water temp.</th>
<th>comments</th>
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</thead>
<tbody>
<tr>
<td>Beaver Bay</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, leaves, twigs</td>
<td>14 cm</td>
<td>39</td>
<td>6x10' pool near log, on twig</td>
</tr>
<tr>
<td>Beaver Bay</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, leaves, twigs</td>
<td>26 cm</td>
<td>39</td>
<td>30 m from above, on twig</td>
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<tr>
<td>Beaver Bay</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, herbaceous</td>
<td>36 cm</td>
<td>39</td>
<td>attached to herb. stem</td>
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<tr>
<td>Beaver Bay</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, herbaceous</td>
<td>42 cm</td>
<td>39</td>
<td>same area as above</td>
</tr>
<tr>
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<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, herbaceous</td>
<td>48 cm</td>
<td>39</td>
<td>same area as above</td>
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<tr>
<td>Winter Creek</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt, herbaceous</td>
<td>41 cm</td>
<td>39</td>
<td>auditory, perhaps chorus frog</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swift #1</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>14 cm</td>
<td>39</td>
<td>Attached to horsetail; top of mass=8cm below sur.</td>
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<tr>
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<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>22 in</td>
<td>39</td>
<td>Attached to horsetail</td>
</tr>
<tr>
<td>Swift #1</td>
<td>red-legged frog</td>
<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>21 in</td>
<td>39</td>
<td>Attached to horsetail; near one above</td>
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<tr>
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<td></td>
<td></td>
<td>silt</td>
<td>17 in</td>
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<td>22 in</td>
<td>39</td>
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<td></td>
<td>silt</td>
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<td></td>
<td>silt</td>
<td>10.5 in</td>
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<td></td>
<td>silt</td>
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<td>39</td>
<td>24 masses on horsetail</td>
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<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>40-80 cm</td>
<td>39</td>
<td>14 masses on bottom attached to stem</td>
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<tr>
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<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>40-80 cm</td>
<td>39</td>
<td>On bottom</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>silt</td>
<td>50 cm</td>
<td>39</td>
<td>On bottom</td>
</tr>
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<td>X</td>
<td></td>
<td></td>
<td>silt</td>
<td>20-60 cm</td>
<td>39</td>
<td>On bottom</td>
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<td></td>
<td></td>
<td>silt</td>
<td>20 cm</td>
<td>39</td>
<td>On bottom</td>
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<td></td>
<td></td>
<td>twigs</td>
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<td>39</td>
<td>6 ft to shore</td>
</tr>
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<tr>
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<td></td>
<td></td>
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<td></td>
<td>equisetum</td>
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<td></td>
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<td></td>
<td></td>
<td>equisetum</td>
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<td>rough-skinned newt</td>
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<td></td>
<td>mud, branches=20 cm</td>
<td>NA</td>
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<td>20-50 cm</td>
<td>40</td>
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<tr>
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<td></td>
<td></td>
<td>twigs, potomogeton, juncus</td>
<td>30-90 cm</td>
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<td></td>
<td>twigs, rock, cobble</td>
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<td>42</td>
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<tr>
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<td>mud-firm</td>
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<td>mud, sm rocks, hard</td>
<td>57 cm</td>
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<td>mud, sm rocks, hard</td>
<td>61 cm</td>
<td>attached to RCG</td>
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</tr>
<tr>
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<td>red-legged frog</td>
<td>7</td>
<td>mud, sm rocks, hard</td>
<td>60 cm</td>
<td>attached to RCG</td>
<td></td>
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<tr>
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<td>4</td>
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<td>53 cm</td>
<td>attached to RCG</td>
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<tr>
<td>IP wetland #3 (upper arm, N of road)</td>
<td>red-legged frog</td>
<td>1</td>
<td>mud, sm rocks, hard</td>
<td>53 cm</td>
<td>attached to RCG</td>
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<tr>
<td>IP wetland #3 (upper arm, N of road)</td>
<td>red-legged frog</td>
<td>32</td>
<td>mud, sm rocks, hard</td>
<td>40-65 cm</td>
<td>attached to RCG</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>IP wetland #2 (N of road)</td>
<td>red-legged frog</td>
<td>1</td>
<td>mud-soft</td>
<td>80 cm</td>
<td>attached to potamogeton</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>IP wetland #2 (N of road)</td>
<td>northwestern salamander</td>
<td>1</td>
<td>mud-soft</td>
<td>80 cm</td>
<td>attached to potamogeton</td>
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Appendix 4.3-2
Survey Data for Amphibians and Reptiles

1996-1997 Terrestrial amphibian survey results
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<th>Rock Type</th>
<th>Soil Temp</th>
<th>Soil Moisture</th>
<th>Canopy Cover</th>
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## 1996-1997 Terrestrial amphibian survey results, Yale Hydroelectric Project.

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<th>Stage</th>
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<th>SVL (mm)</th>
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### 1996-1997 Terrestrial amphibian survey results, Yale Hydroelectric Project.

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<th>SVL (mm)</th>
<th>Habitat</th>
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### 1996-1997 Terrestrial amphibian survey results, Yale Hydroelectric Project.

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Date</th>
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<th>Stage</th>
<th>Tot. Len. (mm)</th>
<th>SVL (mm)</th>
<th>Habitat</th>
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<td>in log</td>
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Appendix 4.3-2

Survey Data for Amphibians and Reptiles

1996-1997 In-stream amphibian survey results
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<th>Total Length</th>
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<th>Specific Habitat</th>
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<td>bark</td>
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<td>rocks</td>
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<td>1 f</td>
<td>rocks</td>
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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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**1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.**
### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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## 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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## 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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## 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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### 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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## 1996-1997 In-stream amphibian survey results, Yale Hydroelectric Project.

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<td>soil</td>
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Appendix 4.3-3

Seasonal Survey Data by Plot and Survey
### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Lodgepole Pine

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<thead>
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<th>Species</th>
<th>Spring 1996</th>
<th>Relative Abundance (%)</th>
<th>Summer 1996</th>
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<th>Fall 1996</th>
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- **Total No. of Individuals**: 4.0 5 3 12 7 8 4 19 3 2 14 19
- **Total No. of Species**: 4 3 3 8 5 4 3 8 1 1 6 6
- **Mean Species Richness**: 3.3 4.0 2.7

### Mammals or Mammal Sign Observed During Seasonal Surveys

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<th>Fall 1996</th>
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<td>Spring 1997</td>
<td>Summer 1997</td>
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Yale Hydroelectric Project, Seasonal Wildlife Surveys: Lodgepole Pine
### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Lodgepole Pine

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#### Mammals or Mammal Sign Observed During Seasonal Surveys

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<tr>
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<td>WINTER WREN</td>
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| Total No. of Individuals | 71 | 38 | 15.0 |
| Total No. of Species     | 19 | 9  | 5    |
| Mean Species Richness    | 3.6| 6.3| 1.3  |

Mammals or Mammal Sign Observed During Seasonal Surveys

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Mammals or Mammal Sign Observed During Seasonal Surveys

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## Yale Hydroelectric Project, Seasonal Surveys: Mature Conifer

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### Mammals or Mammal Sign Observed During Seasonal Surveys

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## Yale Hydroelectric Project, Seasonal Surveys: Mature Conifer

### Bird Species Observed

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<tr>
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</table>

**Total No. of Individuals** | 11  5  16 |                      |             | 5  8  13 |
**Total No. of Species**     | 4  4  7  4 |                      |             | 2  2  4 |
**Mean Species Richness**    | 4.0 |                      |             | 2.0 |

### Mammals or Mammal Sign Observed During Seasonal Surveys

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### Yale Hydroelectric Project, Seasonal Surveys: Mature Conifer

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**Mammals or Mammal Sign Observed During Seasonal Surveys**

- COYOTE
- DOUGLAS SQUIRREL
- ELK**

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Mammals or Mammal Sign Observed During Seasonal Surveys

- Beaver
### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Meadow

#### Bird Species Observed

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#### Mammals or Mammal Sign Observed During Seasonal Surveys

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Mean Species Richness: 0.0 (Winter 1997), 6.0 (Spring 1997), 8.0 (Summer 1997)
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| Total No. of Individuals      | 10                      | 6                               |                          |                                   |
| Total No. of Species          | 4                       | 3                               |                          |                                   |
| Mean Species Richness         | 4.0                     | 3.0                             |                          |                                   |

**Mammals or Mammal Sign Observed During Seasonal Surveys**

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<th>Species</th>
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<tr>
<td>Rufous Hummingbird</td>
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<td>Song Sparrow</td>
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Total No. of Individuals: 50
Total No. of Species: 16
Mean Species Richness: 6.3

Mammals or Mammal Sign Observed During Seasonal Surveys

Beaver
### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Mid-Successional Conifer

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Mammals or Mammal Sign Observed During Seasonal Surveys

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** indicates species observed during all three seasons.
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<tr>
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Yale Hydroelectric Project, Seasonal Wildlife Surveys: Mid-Successional Conifer

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## Yale Hydroelectric Project, Seasonal Wildlife Surveys: Mixed Conifer/Deciduous

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# Yale Hydroelectric Project, Seasonal Wildlife Surveys: Old-growth Conifer

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Mammals or Mammal Sign Observed During Seasonal Surveys

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Mammals or Mammal Sign Observed During Seasonal Surveys
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ELK**                           |                          |                        |                          |                        |                          |                        |
STRIPED SKUNK                    |                          |                        |                          |                        |                          |                        |
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| Total No. of Species     | 3   | 4   | 5   | 8    | 2   | 3   | 5   | 4.0  |
| Mean Species Richness    | 2.7 |  |  |      |  |  |  |   |

Mammals or Mammal Sign Observed During Seasonal Surveys

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# Yale Hydroelectric Project, Seasonal Wildlife Surveys: Old-growth Conifer

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Mammals or Mammal Sign Observed During Seasonal Surveys

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### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Pole Conifer

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**Mammals or Mammal Sign Observed During Seasonal Surveys**

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## Yale Hydroelectric Project, Seasonal Wildlife Surveys: Pole Conifer

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| Total No. of Individuals              | 12 | 5 | 9 | 26 | 3 | 7 | 9 | 19 |
| Total No. of Species                  | 4 | 4 | 5 | 7 | 2 | 3 | 5 | 5 |
| Mean Species Richness                 | 4.3 | | | | | | | |

### Mammals or Mammal Sign Observed During Seasonal Surveys

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## Yale Hydroelectric Project, Seasonal Wildlife Surveys: Pole Conifer

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Mammals or Mammal Sign Observed During Seasonal Surveys:

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Mammals or Mammal Sign Observed During Seasonal Surveys

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DEER (SP.)
ELK**
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<td>1-1 2-1 2-2 2-3 Total</td>
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<td>1 1</td>
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<td>2 2.1</td>
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<td>4 4 4.8</td>
<td>1 1</td>
<td>2 2.1</td>
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<td>AMERICAN ROBIN</td>
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Mammals or Mammal Sign Observed During Seasonal Surveys

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- ELK**
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Mammals or Mammal Sign Observed During Seasonal Surveys

| BLACK-TAILED DEER** | X | X |
| DEER (SP.)          |   |   |
| ELK**               |   |   |
|----------------------------------|---------------------------|----------------|------------------|
|                                  | Total No. Observed | Relative Abundance (%) | Total No. Observed | Relative Abundance (%) | Total No. Observed | Relative Abundance (%) |
| AMERICAN CROW                    | 6                         | 2.1             | 17               | 22.4             | 1               | 1.9              |
| AMERICAN DIPPER                  | 3                         | 1.0             | 3                | 3.9              | 5               | 9.6              |
| AMERICAN GOLDFINCH               | 7                         | 2.4             |                  |                  |                 |                  |
| AMERICAN ROBIN                   | 11                        | 3.8             | 2                | 2.6              | 2               | 3.8              |
| BALD EAGLE**                    | 3                         | 1.0             | 1                | 1.3              |                 |                  |
| BARN SWALLOW                     | 17                        | 5.9             |                  |                  |                 |                  |
| BELTED KINGFISHER                | 4                         | 1.4             | 1                | 1.3              |                 |                  |
| BLACK-CAPPED CHICKADEE          |                           |                 | 11               | 14.5             | 2               | 3.8              |
| BLACK-THROATED GRAY WARBLER      | 5                         | 1.7             |                  |                  |                 |                  |
| BROWN-HEADED COWBIRD            | 3                         | 1.0             |                  |                  |                 |                  |
| BUSHTIT                          |                           |                 |                  |                  | 3               | 5.8              |
| CALIFORNIA GULL                  |                           | 1               | 1.3              |                  |                 |                  |
| CEDAR WAXWING                    | 2                         | 0.7             |                  | 1                | 1.9              |                  |
| CHESTNUT-BACKED CHICKADEE        | 3                         | 1.0             | 10               | 13.2             |                 |                  |
| CLIFF SWALLOW                    | 39                        | 13.6            |                  |                  |                 |                  |
| COMMON FLICKER                   | 3                         | 1.0             | 1                | 1.3              | 2               | 3.8              |
| COMMON MERGANSER                 |                           | 1               | 1.9              |                  |                 |                  |
| COMMON RAVEN                     | 2                         | 0.7             |                  | 2                | 3.8              |                  |
| COMMON YELLOWTHROAT              | 5                         | 1.7             |                  |                  |                 |                  |
| DARK-EYED JUNCO                  | 3                         | 1.0             |                  | 4                | 7.7              |                  |
| DOWNY WOODPECKER                 | 2                         | 0.7             |                  |                  |                 |                  |
| EUROPEAN STARLING                | 1                         | 0.3             |                  | 2                | 3.8              |                  |
| GOLDEN-CROWNED KINGLET          | 3                         | 1.0             | 7                | 9.2              | 3               | 5.8              |
| GREAT BLUE HERON**               |                           | 1               | 1.3              |                  |                 |                  |
| GULL (SP.)                       |                           |                 |                  |                  | 3               | 5.8              |
| HAMMOND’S FLYCATCHER             | 1                         | 0.3             |                  |                  |                 |                  |
| HUMMINGBIRD (SP.)                | 2                         | 0.7             |                  |                  |                 |                  |
| KILLDEER                         | 4                         | 1.4             |                  | 3                | 5.8              |                  |
| MALLARD                          | 5                         | 1.7             |                  | 3                | 5.8              |                  |
| MOURNING DOVE                    |                           | 1               | 1.3              |                  |                 |                  |
| NORTHERN ROUGH-WINGED SWALLOW    | 23                        | 8.0             |                  |                  |                 |                  |
| ORANGE-CROWNED WARBLER           | 1                         | 0.3             |                  |                  |                 |                  |
| OSPREY***                        | 1                         | 0.3             | 1                | 1.3              |                 |                  |
| PACIFIC SLOPE FLYCATCHER         | 10                        | 3.5             |                  |                  |                 |                  |
| PILEATED WOODPECKER***           | 1                         | 0.3             |                  |                  |                 |                  |
| RED-BREASTED SAPSUCKER           | 1                         | 0.3             |                  |                  |                 |                  |
| RED-TAILED HAWK                  |                           |                 | 2                | 2.6              |                 |                  |
| RUFOUS HUMMINGBIRD               | 1                         | 0.3             |                  |                  |                 |                  |
| SONG SPARROW                     | 6                         | 2.1             | 3                | 3.9              | 5               | 9.6              |
| SPOTTED SANDPIPER                | 4                         | 1.4             |                  |                  |                 |                  |
### Yale Hydroelectric Project, Seasonal Surveys: Riparian Deciduous/Riverine

#### STELLER’S JAY
- Total No. Observed: 7
- Relative Abundance (%): 2.4
- Fall 1996-1997: 3
- Relative Abundance (%): 3.9
- Winter 1997-1998: 2
- Relative Abundance (%): 3.8

#### SWAINSON’S THRUSH
- Total No. Observed: 1
- Relative Abundance (%): 0.3

#### TREE SWALLOW
- Total No. Observed: 7
- Relative Abundance (%): 2.4

#### TURKEY VULTURE
- Total No. Observed: 1
- Relative Abundance (%): 0.3

#### VIOLET GREEN SWALLOW
- Total No. Observed: 46
- Relative Abundance (%): 16.0

#### WARBLING VIREO
- Total No. Observed: 5
- Relative Abundance (%): 1.7

#### WESTERN TANAGER
- Total No. Observed: 5
- Relative Abundance (%): 1.7

#### WHITE-CROWNED SPARROW
- Total No. Observed: 11
- Relative Abundance (%): 3.8

#### WILLOW FLYCATCHER
- Total No. Observed: 5
- Relative Abundance (%): 1.7

#### WILSON’S WARBLER
- Total No. Observed: 1
- Relative Abundance (%): 0.3

#### WINTER WREN
- Total No. Observed: 10
- Relative Abundance (%): 3.5
- Fall 1996-1997: 11
- Relative Abundance (%): 14.5
- Winter 1997-1998: 8
- Relative Abundance (%): 15.4

#### WOOD DUCK**
- Total No. Observed: 1
- Relative Abundance (%): 0.3

#### WOODPECKER (SP.)
- Total No. Observed: 1
- Relative Abundance (%): 0.3

#### YELLOW WARBLER
- Total No. Observed: 4
- Relative Abundance (%): 1.4

#### Total No. of Individuals
- Breeding Season 1996-1997: 287
- Fall 1996-1997: 76
- Winter 1997-1998: 52

#### Total No. of Species
- Breeding Season 1996-1997: 46
- Fall 1996-1997: 17
- Winter 1997-1998: 18

#### Mean Species Richness
- Breeding Season 1996-1997: 8.7
- Fall 1996-1997: 5.5
- Winter 1997-1998: 3.8

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**Mammals or Mammal Sign Observed During Seasonal Surveys**

- **BLACK-TAILED DEER**
- **DEER (SP.)**
- **ELK**
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Mammals or Mammal Sign Observed During Seasonal Surveys

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Yale Hydroelectric Project, Seasonal Wildlife Surveys: Reservoir/ Shoreline

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Total No. of Individuals
Total No. of Species
Mean Species Richness

Mammals or Mammal Sign Observed During Seasonal Surveys

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### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Reservoir/ Shoreline

#### Species

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#### Total No. of Individuals
- Breeding Season 1996-1997: 308
- Fall 1996-1997: 96

#### Total No. of Species
- Breeding Season 1996-1997: 42
- Fall 1996-1997: 22
- Winter 1997-1998: 4

#### Mean Species Richness
- Breeding Season 1996-1997: 5.3
- Fall 1996-1997: 2.5

### Mammals or Mammal Sign Observed During Seasonal Surveys

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- DUGLAS SQUIRREL
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Mammals or Mammal Sign Observed During Seasonal Surveys

- BLACK-TAILED DEER**
- DOUGLAS SQUIRREL X X
- ELK**
### Shrubland Species

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#### Total No. of Individuals

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#### Total No. of Species

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Yale Hydroelectric Project, Seasonal Wildlife Surveys: Shrubland

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|                                | Fall 1997    |                        | Winter 1998  |                        |
| Total No. of Individuals       | 7            | 6                      | 7            | 20                     | 11   | 1 | 6 | 18 |
| Total No. of Species           | 3            | 4                      | 4            | 6                      | 5    | 1 | 2 | 6  |
| Mean Species Richness          | 3.7          |                        |              |                        | 2.7  |

Mammals or Mammal Sign Observed During Seasonal Surveys

|                  |              |                        |
| BLACK-TAILED DEER**|              |                        |
| DOUGLAS SQUIRREL   | X            | X                      | X            |
| ELK**              |              |                        |              |
## Yale Hydroelectric Project, Seasonal Wildlife Surveys: Shrubland

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### Mammals or Mammal Sign Observed During Seasonal Surveys

- BLACK-TAILED DEER**
- DOUGLAS SQUIRREL
- ELK**
# Yale Hydroelectric Project, Seasonal Wildlife Surveys: Seedling/Sapling

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Yale Hydroelectric Project, Seasonal Wildlife Surveys: Seedling/Sapling

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Mean Species Richness: 1.0 4.3 6.7

Mammals or Mammal Sign Observed During Seasonal Surveys

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### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Seedling/Sapling

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### Yale Hydroelectric Project, Seasonal Wildlife Surveys: Seedling/Sapling

**Species** | **Breeding Season 1996-1997** | **Fall 1996-1997** | **Winter 1997-1998**
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| Total No. Observed | Relative Abundance (%) | Total No. Observed | Relative Abundance (%) | Total No. Observed | Relative Abundance (%) |
--- | --- | --- | --- | --- | --- |
**AMERICAN ROBIN** | 17 | 14.8 | 1 | 2.9 |  |  |
**BAND-TAILED PIGEON** | 1 | 0.9 |  |  |  |  |
**BLACK-CAPPED CHICKADEE** | 4 | 3.5 |  |  |  |  |
**CEDAR WAXWING** | 5 | 4.3 |  |  |  |  |
**CHESTNUT-BACKED CHICKADEE** | 7 | 6.1 | 3 | 8.8 | 4 | 30.8 |
**COMMON Flicker** | 4 | 3.5 |  |  |  |  |
**DARK-EYED JUNCO** | 13 | 11.3 |  |  | 2 | 15.4 |
**GOLDEN-CROWNED KINGLET** |  |  | 8 | 23.5 | 4 | 30.8 |
**HAIRY WOODPECKER** | 1 | 0.9 |  |  |  |  |
**HUTTON’S VIRO** |  |  | 1 | 2.9 |  |  |
**MACGILLIVARY’S WARBLER** | 10 | 8.7 |  |  |  |  |
**PACIFIC SLOPE FLYCATCHER** | 1 | 0.9 |  |  |  |  |
**PURPLE FINCH** | 1 | 0.9 |  |  |  |  |
**RED-BREASTED SAPSUCKER** | 1 | 0.9 |  |  |  |  |
**RUBY-CROWNED KINGLET** | 1 | 2.9 |  |  |  |  |
**RUFFED GROUSE** | 1 | 0.9 |  |  |  |  |
**RUFOUS HUMMINGBIRD** | 1 | 0.9 |  |  |  |  |
**SHARP-SHINNED HAWK** | 1 | 0.9 |  |  |  |  |
**SONG SPARROW** | 2 | 1.7 | 2 | 5.9 |  |  |
**SPOTTED TOWHEE** | 3 | 2.6 |  |  |  |  |
**STELLER’S JAY** | 4 | 3.5 | 1 | 2.9 |  |  |
**SWAINSON’S THRUSH** | 4 | 3.5 |  |  |  |  |
**VARIED THRUSH** | 1 | 2.9 |  |  |  |  |
**WESTERN TANAGER** | 4 | 3.5 |  |  |  |  |
**WHITE-CROWNED SPARROW** | 14 | 12.2 |  |  |  |  |
**WILLOW FLYCATCHER** | 16 | 13.9 |  |  |  |  |
**WINTER WREN** | 15 | 44.1 | 3 | 23.1 |  |  |

**Total No. of Individuals**

- **Breeding Season 1996-1997**: 175
- **Fall 1996-1997**: 34
- **Winter 1997-1998**: 15

**Total No. of Species**

- **Breeding Season 1996-1997**: 25
- **Fall 1996-1997**: 10
- **Winter 1997-1998**: 4

**Mean Species Richness**

- **Breeding Season 1996-1997**: 5.8
- **Fall 1996-1997**: 2.8
- **Winter 1997-1998**: 1.3

---

### Mammals or Mammal Sign Observed During Seasonal Surveys

- **BLACK-TAILED DEER**
- **COYOTE**
- **DOUGLAS SQUIRREL**
- **ELK**
- **POCKET GOPHER (SP.)**
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<th>Species</th>
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Mammals or Mammal Sign Observed During Seasonal Surveys

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Mammals or Mammal Sign Observed During Seasonal Surveys

| BLACK-TAILED DEER**            | X          | X        | X          |
| CHIPMUNK (SP.)                 | X          | X        |
| DOUGLAS SQUIRREL               | X          | X        |
| ELK**                          | X          | X        |
| TOWNSEND’S CHIPMUNK            |            |          |            |
# Yale Hydroelectric Project, Seasonal Wildlife Surveys: Upland Deciduous

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| Total No. of Species     | 8 1 5 3 10 4 15 | 5 5 9 6 8 4 17 |
| Mean Species Richness    | 5.2             | 6.2                   |

Mammals or Mammal Sign Observed During Seasonal Surveys

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Mammals or Mammal Sign Observed During Seasonal Surveys

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DOUGLAS SQUIRREL
ELK** X X
MINK** X X
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Mammals or Mammal Sign Observed During Seasonal Surveys

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## Yale Hydroelectric Project, Seasonal Surveys: Wetland

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**Total No. of Individuals**

| 35 | 22 | 31 | 35 | 9 | 35 | 167 |
| 30 | 16 | 23 | 14 | 10 | 32 | 125 |

**Total No. of Species**

| 15 | 15 | 8 | 15 | 8 | 16 | 41 |
| 11 | 10 | 15 | 10 | 7 | 10 | 36 |

**Mean Species Richness**

| 12.8 | 10.5 |

**Mammals or Mammal Sign Observed During Seasonal Surveys**

- **BEAVER**
- **BLACK-TAILED DEER**
- **DOUGLAS SQUIRREL**
- **ELK**
- **MINK**
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Total No. of Individuals     115 | 121 | 42
Total No. of Species        22  | 28  | 13
Mean Species Richness       12.0 | 7.0 | 9.0

Mammals or Mammal Sign Observed During Seasonal Surveys

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DOUGLAS SQUIRREL
ELK**
MINK**
### Yale Hydroelectric Project, Seasonal Surveys: Wetland

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- MINK **
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## Yale Hydroelectric Project, Seasonal Surveys: Wetland

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- ELK**
- MINK**
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Mammals or Mammal Sign Observed During Seasonal Surveys

- BEAVER
- BLACK-TAILED DEER**
- DOUGLAS SQUIRREL
- ELK**
- MINK**
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Mammals or Mammal Sign Observed During Seasonal Surveys

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