

**2010 New Hampshire FINAL WHIP Practice List**

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1/14/2010

| Practice   | Code | Cost of Typical Practice Scenario   | Standard Payment Offered (Percentage of Allowable Practice Costs)  | Payment - Historically Underserved (Percentage of Allowable Practice Costs)  | Practice Life (Years) | Practice Use and Restrictions  |
|--|------|---|--|--|-----------------------|--|
| Access Control (formerly Use Exclusion)            | 472  | Heavy Steel Gate<br>\$910.84 Ea   | Heavy Steel Gate<br>\$663.79 Ea  | Heavy Steel Gate<br>\$796.55 Ea  | 10                    | To protect sensitive wildlife habitat. Use in conjunction with Fence practice, if necessary.   |
| Conservation Cover                                 | 327  | Warm Season Grass \$1275.98/Ac<br>Cool Season grass/legume \$1052.70/Ac<br>Pollinator - Standard \$1157.12/Ac<br>Pollinator - Intensive Management \$2161.37/Ac   | Warm Season Grass \$913.48/Ac<br>Cool Season grass/legume \$767.59/Ac<br>Pollinator -Standard \$ 843.00/Ac<br>Pollinator -Intensive Management \$1574.25/Ac          | Warm Season Grass \$1096.18/Ac<br>Cool Season grass/legume \$921.11<br>Pollinator -Standard \$ 1011.60/Ac<br>Pollinator - Intensive Management \$1889.10/Ac            | 5                     | For soil cover and wildlife habitat. Includes seedbed preparation, lime, fertilizer, seed and mulching, if needed. Warm Season Grass includes 2 roundup applications and Pollinators includes 3 roundup applications to prepare seed bed. See guidance document for pollinators. |
| Early Successional Habitat Development/ Management | 647  | Rotary Mowing \$146.28/Ac<br>Brush Saw \$338.14/Ac<br>Delayed Mowing \$69Ac<br>Clear Openings, Average Site \$840/Ac<br>Clear Openings - Difficult Site \$1976/Ac | Rotary Mowing \$106.61/Ac<br>Brush Saw \$246.43/Ac<br>Delayed Mowing \$51.75/Ac<br>Clear Openings, Average Site \$630Ac<br>Clear Openings - Difficult Site \$1482/Ac | Rotary Mowing \$127.93/Ac<br>Brush Saw \$295.71Ac<br>Delayed Mowing \$62.10/Ac<br>Clear Openings, Average Site \$756Ac<br>Clear Openings - Difficult Site \$1778.40/Ac | 1                     | Maximum of three years for delayed mowing of grassland. Minimum of 5 contiguous acres for grassland management. EQUIP PAYMENT INCLUDES FOREGONE INCOME, WHIP DOES NOT.   |
| Fence  | 382  | Woven Wire \$6.05/Ft<br>Non Woven Wire \$3.03/Ft<br>Light-Duty \$1.21/Ft<br>Deer Exclusion/Special Use \$11.00/Ft   | Woven Wire \$4.33/Ft<br>Non Woven Wire \$2.17/Ft<br>Light-Duty \$0.87/Ft<br>Deer Exclusion/Special Use \$7.88/Ft   | Woven Wire \$5.20/Ft<br>Non Woven Wire \$2.60/Ft<br>Light-Duty \$1.04/Ft<br>Deer Exclusion/Special Use \$9.45/Ft   | 20                    | To protect riparian areas, restoration projects and other sensitive habitats.  |
| Field Border                                       | 386  | Cool season grass \$0.20/Ft   | Cool season grass \$0.14/Ft  | Cool season grass \$0.17/Ft  | 10                    | A 20 foot wide by 2,178 foot strip of permanent vegetation will be established at the edge of a field. Use "cool season grass" for wildlife habitat/cover & sediment/nutrient capture.   |
| Firebreak  | 394  | Partially Wooded \$4.54/LnFt<br>Open \$0.76/LnFt  | Partially Wooded \$3.26/LnFt<br>Openland \$0.55/LnFt   | Partially Wooded \$3.91/LnFt<br>Openland \$0.66/LnFt   | 5                     | Used in conjunction with Prescribed Burning  |
| Fish Passage                                       | 396  | Arch Culverts 20' x 8' 3.5" \$3255.00 LnFt<br>Arch Culverts 16' x 6' 7.5" \$2835.00 LnFt<br>Fish Ladder \$180,892.95 each<br>Dam Removal \$6398.39/ LnFt          | Arch Culverts 20' x 8' 3.5" \$2325.00 LnFt<br>Arch Culverts 16' x 6' 7.5" \$2025.00 LnFt<br>Fish Ladder \$129,209.25 each<br>Dam Removal \$4570.28/ LnFt             | Arch Culverts 20' x 8' 3.5" \$2790.00 LnFt<br>Arch Culverts 16' x 6' 7.5" \$2430.00 LnFt<br>Fish Ladder \$155,050.10 each<br>Dam Removal \$5484.34/ LnFt               | 5                     | Small Arch Culvert Approx. 16' Wide X 6' 7.5" Tall Or Smaller. Large Arch Culvert Approx. 20' Wide X 8' 3.5" Tall or Larger  |
| Forest Stand Improvement                           | 666  | Dense Softwood \$686.40/Ac<br>Hardwood & Softwood \$514.80  | Dense Softwood \$491.40/Ac<br>Hardwood & Softwood \$368.55/Ac  | Dense Softwood \$589.68/Ac<br>Hardwood & Softwood \$442.26   | 10                    | For cutting in stands to meet an identified wildlife habitat objective, such as managing softwood cover for deer yarding areas or cutting red maple to develop browse.   |

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|--|------|--|--|---|-----------------------|---|
| Forest Trails & Landings                         | 655  | Average Sites \$4,740/Ac<br>Moderately Difficult Sites \$10,942.64/Ac<br>Difficult Sites \$15,135/Ac<br>Landings \$2,472.00/Ac<br>Forest Trail Repair \$1905.00  | Average Sites \$3,393/Ac<br>Moderately Difficult Sites \$7,823.45/Ac<br>Difficult Sites \$10,818/Ac<br>Landings \$1,773.00/Ac<br>Forest Trail Repair \$1368.00   | Average Sites \$4,071.60/Ac<br>Moderately Difficult Sites \$9,388.15/Ac<br>Difficult Sites \$12,981.60/Ac<br>Landings \$2,127.60/Ac<br>Forest Trail Repair \$1641.60  | 5                     | Only available where necessary to facilitate access of heavy equipment to implement another wildlife practice that requires such equipment. To prevent erosion, soil must be stabilized with vegetation and BMPs. |
| Obstruction Removal                              | 500  | Tree and Boulder Removal \$3,141.60/Ac<br>Debris Removal \$2,490.40/Ac   | Tree and Boulder Removal \$2,249.10/Ac<br>Debris Removal \$1,782.90/Ac   | Tree and Boulder Removal \$2,698.92/Ac<br>Debris Removal \$2,139.48/Ac  | 10                    | To facilitate installation of habitat improvement and restoration practices. <u>Maximum of one acre per contract.</u>   |
| Pest Management                                  | 595  | <b>INVASIVE PLANT CONTROL</b><br>Invasives - Hand Tools \$580/Ac<br>Invasives - Cut Stem \$1,335.40/Ac<br>Invasives - Difficult Mowing \$2,016/Ac<br>Invasives - Average Mowing \$840/Ac<br>Invasives - Difficult Chemical \$1,980/Ac<br>Invasives - Lite treatment \$198/Ac<br>Invasives - Average Chemical \$357.50/Ac<br>Invasives- Moderate Density \$605/Ac | <b>INVASIVE PLANT CONTROL</b><br>Invasives - Hand Tools \$435/Ac<br>Invasives - Cut Stem \$956.03/Ac<br>Invasives - Difficult Mowing \$1,512/Ac<br>Invasives - Average Mowing \$630/Ac<br>Invasives - Difficult Chemical \$1417.50/Ac<br>Invasives - Lite treatment \$141.75/Ac<br>Invasives - Average Chemical \$255.94/Ac<br>Invasives- Moderate Density \$433.13/Ac | <b>INVASIVE PLANT CONTROL</b><br>Invasives - Hand Tools \$522/Ac<br>Invasives - Cut Stem \$1,147/Ac<br>Invasives - Difficult Mowing \$1,814/Ac<br>Invasives - Average Mowing \$756/Ac<br>Invasives - Difficult Chemical \$1,701/Ac<br>Invasives - Lite treatment \$170.10/Ac<br>Invasives - Average Chemical \$307.13/Ac<br>Invasives- Moderate Density \$519.75/Ac | 1                     | <b>Invasive and Non-Native Plant Species Control</b> -All agricultural and forest lands - invasive and non-native plant species control, maximum of three years treatment, does not need to be consecutive years. |
| Prescribed Burning                               | 338  | Open Land Burning \$1415.87/Ac<br>Pine/Scrub Oak \$4,876/Ac  | Open Land Burning \$1015.73/Ac<br>Pine/Scrub Oak \$3,498/Ac  | Open Land Burning \$1218.88/Ac<br>Pine/Scrub Oak \$4,197.60/Ac  | 1                     | State Office approval is required to plan this practices. Includes burning plan development and application by a qualified third party.   |
| Restoration and Management of Declining Habitats | 643  | Declining forest \$2,366/Ac<br>Eelgrass Restoration \$42,550/Ac<br>Oyster Bed Shell \$28,953.55/Ac<br>Oysters- spat on shell \$16,433.50/Ac<br>Barrens and Rare Forests \$1,680/Ac<br>T&E Species Habitat \$2,625/Ac   | Declining forest \$1,962/Ac<br>Eelgrass Restoration \$30,525/Ac<br>Oyster Bed Shell \$20771.03/Ac<br>Oysters spat on shell \$11,789.25/Ac<br>Barrens and Rare Forests \$1,200/Ac<br>T&E Species Habitat \$1,875/Ac   | Declining forest \$2,204.40/Ac<br>Eelgrass Restoration \$36,630/Ac<br>Oyster Bed Shell \$24925.23/Ac<br>Oysters spat on shell \$14,147.10/Ac<br>Barrens and Rare Forests \$1,440/Ac<br>T&E Species Habitat \$2,250/Ac   | 1                     | For restoration and management of priority declining habitats.  |
| Riparian Forest Buffer                           | 391  | Zone 1 and 2 \$9992.16/Ac<br>Zone 1, 2, and 3 \$12490.20/Ac  | Zone 1 and 2 \$7147.17/Ac<br>Zone 1, 2, and 3 \$8999.96/Ac   | Zone 1 and 2 \$8576.60/Ac<br>Zone 1, 2, and 3 \$10720.76/Ac   | 15                    | Includes shaping, seedbed preparation, soil amendments, seeding and tree/shrub planting stock and labor for establishing.   |

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| Stream Crossing                           | 578  | Culverts<br>12" - 24" \$55.94/Ft<br>36" \$103.96/Ft<br>>36" \$148.03/Ft<br>Concr Box Culv. \$511.95/Ft<br>Stone Fords \$49.24/Ft<br>Timber Bridge \$1,018.55/Ft<br>Steel Bridge \$1300.79/Ft<br>Pre Fab Bridge \$1,649.68/Ft | Culverts<br>12" - 24" \$40.84/Ft<br>36" \$75.90/Ft<br>>36" \$108.08 /Ft<br>Concr Box Culv \$373.77/Ft<br>Stone Fords \$35.95/Ft<br>Timber Bridge \$743.63/Ft<br>Steel Bridge \$949.69/Ft<br>Pre Fab Bridge \$1,204.41/Ft | Culverts<br>12" - 24" \$49.01/Ft<br>36" \$91.08/Ft<br>>36" \$129.69/Ft<br>Concr Box Culv \$448.52/Ft<br>Stone Fords \$43.14/Ft<br>Timber Bridge \$892.36/Ft<br>Steel Bridge \$1,139.63/Ft<br>Pre Fab Bridge \$1,445.29/Ft | 10                    | Culverts, stone fords, and bridges only where required for access of heavy machinery to install wildlife practices.  |
| Stream Habitat Improvement and Management | 395  | Culvert Removal \$2,173.31 Ea<br>Riparian Management \$140/Ac<br>Log Jam \$232 Ea<br>Streambank Habitat \$88.13/Ln Ft  | Culvert Removal \$1,412.51 Ea<br>Riparian Management \$67.50/Ac<br>Log Jam \$174 Ea<br>Streambank Habitat \$64.20/Ln Ft  | Culvert Removal \$1,695.01 Ea<br>Riparian Management \$81.00/Ac<br>Log Jam \$208.80 Ea<br>Streambank Habitat \$77.05/Ln Ft  | 5                     | Log Jam restoration DES permit required  |
| Streambank & Shoreline Protection         | 580  | \$154/Ln Ft  | \$110.25/Ln Ft   | \$132.30/Ln Ft  | 20                    | Includes removal of fallen trees, shaping, revegetation, and rock protection of the toe of the slope. To protect critical fish or wildlife habitat or significant cultural resources.                  |
| Structure for Water Control               | 587  | Gabion Structure \$996.18/Ft<br>In-line Water Control Level \$9,284.45/Ea<br>Instream Rock Chute \$278.89/Ln Ft<br>Pipe Replacement 12" - 18" \$26593.75<br>Pipe Replacement >21" \$42923.75                                 | Gabion Structure \$714.65/Ft<br>In-line Water Level Control \$6,552.98/Ea<br>Instream Rock Chute \$200.07/Ln /Ft<br>Pipe Replacement 12" - 18" \$19078.13<br>Pipe Replacement >21" \$30793.13                            | Gabion Structure \$857.58/Ft<br>In-line Water Level Control \$7,863.57/Ea<br>Instream Rock Chute \$240.09/Ln Ft<br>Pipe Replacement 12" - 18" \$22893.75<br>Pipe Replacement >21" \$36951.75                              | 20                    | Use Stream Crossing practice for culverts, fords and bridges   |
| Tree/Shrub Establishment                  | 612  | Softwoods \$1,185.84/Ac<br>Hardwood \$1,451.52/Ac<br>Hardwood-Deer Protection \$3,330.72/Ac<br>Native Shrubs \$1,965.60/Ac<br>Wildlife Shrubs \$27.04/Ea   | Softwoods \$848.21/Ac<br>Hardwood \$1,038.24/Ac<br>Hardwood-Deer Protection \$2,382.39/Ac<br>Native Shrubs \$1,405.95/Ac<br>Wildlife Shrubs \$20.28/Ea   | Softwoods \$1017.85/Ac<br>Hardwood \$1,245.89/Ac<br>Hardwood-Deer Protection \$2,858.87/Ac<br>Native Shrubs \$1,687.14/Ac<br>Wildlife Shrubs \$24.34/Ea   | 15                    | Not to be used to plant grassland or cropland to forest. Maximum stocking density for wildlife habitat improvement is 70 Trees/Ac or 450 Shrubs/Ac.  |
| Tree/Shrub Pruning                        | 660  | Mast Tree Pruning \$25.44/Tree   | Mast Tree Pruning \$18.54/Tree   | Mast Tree Pruning \$22.25/Tree  | 10                    | For pruning fruit trees for wildlife food production   |
| Tree/Shrub Site Preparation               | 490  | \$582.00/Ac  | \$423.00/Ac  | \$507.60/Ac   | 1                     | Was Forest Site Preparation. May be used for scarification to encourage natural seeding of white pine, aspen or other native species. May also be used to prepare a site for Tree/Shrub Establishment. |

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| Upland Wildlife Habitat Management  | 645  | Hardwood Mast \$617.12/Ac<br>Softwood Retention \$216/Ac<br>Large Bird Houses \$410.30/Ea<br>Small Birdhouses \$36.60/Ea<br>Duck Houses \$75.24/Ea | Hardwood Mast \$445.44/Ac<br>Softwood Retention \$187/Ac<br>Large Bird Houses \$293.74/Ea<br>Small Birdhouses \$27.45/Ea<br>Duck Houses \$56.43/Ea | Hardwood Mast \$534.53/Ac<br>Softwood Retention \$204/Ac<br>Large Bird Houses \$352.49/Ea<br>Small Birdhouses \$32.94/Ea<br>Duck Houses \$67.72/Ea | 1                     | Large bird houses (target species Purple Martins) for installation only where there are known populations in the state. Maximum of 1 Large Birdhouse/landowner, unless approved by NRCS Biologist. <u>Small and Duck birdhouses</u> - maximum 4/landowner. |
| Wetland Enhancement                 | 659  | Broadcast Native Wetland Mix \$2,827.10/Ac<br>Native Wetland Plugs \$5,995.00/Ac<br>Hydrologic Improvement \$42.41/Cu Yd                           | Broadcast Native Wetland Mix \$2,023.50/Ac<br>Native Wetland Plugs \$4291.88/Ac<br>Hydrologic Improvement \$30.31/Cu Yd                            | Broadcast Native Wetland Mix \$2,428.20/Ac<br>Native Wetland Plugs \$5,150.25/Ac<br>Hydrologic Improvement \$36.37/Cu Yd                           | 15                    | Use to enhance wetland functions in degraded wetlands, including vernal pools. Does not include dredging of existing ponds.  |
| Wetland Restoration                 | 657  | Salt Marsh \$54.57/Cy<br>Fresh Water Wetland \$13.72/Cy<br>Ditch Plugs \$2,642.22/Ac   | Salt Marsh \$39.07/Cy<br>Fresh Water Wetland \$9.82/cy<br>Ditch Plugs \$1,756.67/Ac  | Salt Marsh \$46.88/Cy<br>Fresh Water Wetland \$11.79/cy<br>Ditch Plugs \$2,108.00/Ac   | 15                    | Use to restore wetland functions and values to approximate "pre-disturbance" condition.  |
| Wetland Wildlife Habitat Management | 644  | Wetland Wildlife Habitat Management \$636/Ac   | Wetland Wildlife Habitat Management \$463.50/Ac  | Wetland Wildlife Habitat Management \$556.20/Ac  | 1                     | Mechanical Manipulation of Wetland Vegetation, encouraging soft mast, hard mast and dense softwood cover.  |
| Windbreak Establishment             | 380  | \$3,356/Ac   | \$2517/Ac  | \$3020.40/Ac   | 15                    |  |

NOTE: The above list of practices include all practices that may be used in WHIP contracts.