Seasonal Wetland Scorecard

| Property Name/Location: | | | | | Wetland/Unit Name: | | | | | | | | | | |
|---|---|-----------|-------------|----------|--------------------|-----------|--|----------|----------------------------------|--|---------------|----------|-----------|---------------|-------------|
| Person Reviewing: | | | | | Date of Review: | | | | | | | | | | |
| Objective: (e.g. Sea | sonal we | etland m | anagem | ent that | provides | quality | moist so | il foods | and wat | er condi | tions for | waterfo | wl and o | ther migra | tory birds) |
| | Hydrograph | | | | | | | | | | | | | | |
| | 100 | | | | | - | | • | | | | | |] | |
| | 80 | | | | | | | | | | | | | | |
| | 70 | | | | | | | | | | | | | | |
| | 60 | | | | | | | | | | | | | | |
| | 50 | | | | | | | | | | | | | | |
| | 40 | | | | | | | | | | | | | | |
| | 30 | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | |
| | 10 | | | | | | | | | | | | | | |
| | 0 | | | | | | | | | | | | | | |
| | -10 | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | | |
| | SPRING FLOODING & DRAWDOWN (April 15-June 30) | | | | | | | | | | | | | | |
| | | | <u> 211</u> | KING F | LOODI | NG & I | JKAW | | I (APIII ithin Con | | <u>ne 30)</u> | | | | |
| | | Sco | ring Crite | aria | | | | VV | landowner? Potential Remediation | | | | | | |
| | | 300 | ing Citte | ila | | | | (N | <u>lo, Y</u> es, <u>M</u> aybe) | | | | | | |
| 1. Flooding Freque | ncy | | | | | | | _ | , <u>.</u> , <u></u> | ,, | | | | | |
| Able to flo | | ı year dı | iring the | time pe | riod | | | 1 | | | ○ Impr | ove wate | er source | e reliability | |
| Able to flo | | | | | | | (| 0.6 | | | ○ Impr | ove wate | er source | e infrastruc | ture |
| Able to flo | | ast 1 ou | t every 3 | years, b | out less t | han 2 | | | | | | | | | |
| out of 3 y | | | | | | | _ | 0.3 | | | | | | | |
| Able to flo | | | | | ars | | (| 0.1 | | | | | | | |
| Not able | Not able to flood during this season | | | | | | | 0 | | | | | | | |
| | | | | | | SCORE | | |]n □y | □м | | | SC | ORE AFTER | ₹ |
| | | | | | | | | | | | | | | | |
| 2. Flood or Drawdown Extent (portion of wetland area that can be flooded &/or dried) Re-contour or level field | | | | | | | | | | | | | | | |
| | >75% can be flooded and/or drawn-down | | | | | 1 | | | Fill-in borrow areas | | | | | | |
| | 50-75% can be flooded and/or drawn-down | | | | | | 0.75 | | | Improve inflow/drainage infrastructure | | | | | |
| 25%-50% can be flooded and/or drawn-down <25% can be flooded and/or drawn-down | | | | | _ | 0.5 25 | Increase water source quantityDecrease wetland size | | | | | | | | |
| SCORE | | | | i | _ | | | | , | | | | | | |
| | | | | | | SCORE | | |]n □y | Шм | | | 30 | OKE AFTER | ` |
| 3. Drawdown Rate | | | | | | | | | | | | | | | |
| Drawdown lasts over 2 weeks long | | | | | | 1 | | | | age outf | lows | | | | |
| Drawdown over 1 to 2 weeks | | | | | 0. | 75 | ○ Manage inflows | | | | | | | | |
| Drawdow | Drawdown 3 to 7 days, -OR- | | | | | | | | ○ Improve infrastructure | | | | | | |
| Drawdown <3 days, groundwater maintains moisture | | | | (| 0.5 | | | ○ Impr | ove wate | er retent | ion (clay) | | | | |
| Drawdown less 3 days and quickly dries, -OR- No drawdown occurs (permanenly wet or dry) | | | | | | | | | | | | | | | |
| No drawd | down occ | urs (per | manenly | wet or | dry) | | | 0 | | | | | | | |
| | | | | | | SCORE | | |]n □y | □м | | | SC | ORE AFTER | ₹ |

| | | | VEGETATIO | N | | | | | |
|--|---|---|--|--|--|--|---------------------------------|--|--|
| | Scoring Criteria | | | Within Control of landowner? (No, Yes, Maybe) | Potential Remediation | | | | |
| 4. Persistent, Woody, or Invasiv | e Vegetation | | | | | | | | |
| Hydrologic conditions and/or ma | anagement of we | tlands minimize | persistent wetl | and vegetation sucl | n as cattails and b | ulrushes, woody | | | |
| vegetation such as cottonwoods | - | | | - | | , , | | | |
| 0-50% Cover by non-de | | • | | • • | Carlier drawdowns | | | | |
| as described above, pr | | | 1 | Faster drawdowns | | | | | |
| 50-75% Cover non-des | | | 0.3 | () Improve summer drainage | | | | | |
| >75% Cover non-desira | | | 0 | | <u> </u> | • | Disturbance (e.g. Mow, disk, or | | |
| | | SC | CORE | \square N \square Y \square M | | SCORE AFTER | | | |
| 5. Food Value (Based on the pol According to the table below and plants by food category, and (3) determine food value category of Category plant may be scored 0. | d plant list on pag quality of seed pr of plants. If plant o | ge 4, score the v roduction that is | vetland's duck for s able to mature | ood value based on by late-summer. L | (1) the plant spec Jse "Overall Value | " from the plant l | list to | | |
| | Food Value Category (refer to list) | | | | | | | | |
| | of Plants & Seed Heads | 8-10 6-7 3-5 | | | 1-2 | Bare ground | | | |
| Points for each 25% cover within the | Average to Good fo | .5 or every 25% | .3 for every 259 | .2 6 for every 25% | .1 for every 25% | 0 | | | |
| wetland basin (up to a max. score of 1.0) | Poor | .4 | .2 | .1 | 0 | 0 | | | |
| SCORE FOR | R CATEGORY | | | | | | | | |
| POTEN | NTIAL SCORE | | | | | | | | |
| | • | SC | CORE | □n □y □m | | SCORE AF | TER | | |
| creeping s b. A wetland score 1.0 (c. A wetland | pikerush (categ with 75% cove (the maximum) with 100% cov r stress prior to | gory 4), all in er with smartv l. ver with spike o seed-set) wo | 'average' con weed and 25% rush (categor ould have a to | ard grass (categ dition, would tot 6 cover in spikeru y 4) in poor cond stal score of 0.4. | al 0.9 for all ca ish (all good co lition (e.g. most | tegories. ndition) would t plants died | | | |
| | | Conditions | C | onditions Favoring | Condition | Conditions Favoring Cattails & Perennials | | | |

| | Conditions <u>Unfavorable</u> for Target Vegetation | Conditions Favoring good Moist Soil Vegetation | Conditions Favoring Cattails & Perennials |
|---|---|--|---|
| Hydroperiod | Short | Medium | Long |
| Drawdown Date | O Before April 15 | O April 15-June 15 | AfterJune 15 |
| Drawdown Duration | Ouick (<1 week or 5 days) | ○ Slow to medium | O Very Slow (>1 month) |
| Hydrologic Connectivity/ Groundwater Depth | ○ Deep groundwater | O Deep to Medium depth to groundwater | ○ High/Shallow groundwater |
| Time since disturbance | ○ Short < 1yr | ○ Short to medium (1- 4 years) | OLong (>4 years) |
| Salinity | High | ○ Medium to Low | ○ Medium to Low |
| Soil | ○ High clay content, pure sand or gravel | O Loamy sand to clay loam | ○ High clay content, pure sand or gravel |

| FALL/WINTER FLOODING | (Sept 1-Feb 30) | | | | | | |
|--|---|--|--|--|--|--|--|
| | Within Control of | | | | | | |
| Scoring Criteria | landowner? | Potential Remediation | | | | | |
| 6. Flooding Frequency | (<u>N</u> o, <u>Y</u> es, <u>M</u> aybe) | | | | | | |
| Able to flood each year | | ○ Improve water source reliability | | | | | |
| Able to flood at least 2 out of 3 years 0.6 | | Improve water source infrastructure | | | | | |
| Able to flood at least 1 out every 3 years, but less than 2 | | <u> </u> | | | | | |
| out of 3 years 0.3 | | | | | | | |
| Able to flood less than 1 out of every 3 years 0.1 | | | | | | | |
| Not able to flood during this season 0 | ı. | | | | | | |
| SCORE | \square N \square Y \square M | SCORE AFTER | | | | | |
| 7. Flooding Extent (portion of wetland area that is typically flooded when water | r is available) | Re-contour or level field | | | | | |
| Able to flood >90% of expected basin 1 | 1 13 6 4 6 11 6 2 , | Fill-in borrow areas | | | | | |
| Able to flood 75-90% of basin 0.75 | | Larger inflow infrastructure | | | | | |
| Able to flood 50-85% of basin 0.5 | | ○ Increase water source quantity | | | | | |
| Able to flood <50% of basin 0.25 | | O Decrease wetland size | | | | | |
| SCORE | \square N \square Y \square M | SCORE AFTER | | | | | |
| | | | | | | | |
| 8. Flooding Duration | | | | | | | |
| At least some open water all Fall & Winter 1 | | Increase water source quantity | | | | | |
| Fall water until freeze 0.9 >1 month during time period 0.75 | | Improve water retention (clay) | | | | | |
| >1 month during time period 0.75 2-4 weeks during time period 0.5 | | ☐ Improve water retention (clay)☐ Increase flow-through | | | | | |
| Up to 2 weeks during time period 0.25 | | Use of aerator to prevent freezing | | | | | |
| Does not flood 0.25 | | O use of actator to prevent recently | | | | | |
| SCORE | \square N \square Y \square M | SCORE AFTER | | | | | |
| | ⊔N ⊔т шıvı | | | | | | |
| 9. Flooding Depth: Majority (>75%) of flooded area is: | | | | | | | |
| <10" deep 1 | | Re-contour or level field | | | | | |
| <18" deep, with ability to flood slowly 0.9 | | Control inflow rate | | | | | |
| <18" deep, no ability to flood slowly 0.7 | | Control outflow rate | | | | | |
| >18" deep, with ability to flood slowly 0.5 >18" deep, no ability to flood slowly 0.3 | | | | | | | |
| | | SCORE AETED | | | | | |
| SCORE | \square N \square Y \square M | SCORE AFTER | | | | | |
| SOIL SALINI | TY | | | | | | |
| 10. Salinity | | - | | | | | |
| Salinity <u>not</u> an apparent problem 1 | | Earlier Drawdown (cool) | | | | | |
| There appears to be salinity build-up 0.5 Salinity build-up present and severely affecting plant | | Shorter Drawdown | | | | | |
| growth or species composition 0.1 | | ☐ Improve Summer Drainage☐ Fill & Flush (pull all boards) | | | | | |
| | | | | | | | |
| SCORE | \square N \square Y \square M | SCORE AFTER | | | | | |
| OVERALL METLAND COORE | | | | | | | |
| OVERALL WETLAN | D SCORE | | | | | | |
| TOTAL SCORE, ALL BOXES | TOT | TAL POTENTIAL SCORE AFTER REVIEW | | | | | |
| Action Items & Notes: | 101 | AL POTENTIAL SCORE AFTER REVIEW | | | | | |
| Action items & notes: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

Waterfowl Food Values

Range of 1-10, with 10 being the highest. Rated for Invertebrates and Seed Value.

| | Invert. | Overall | |
|---|---------|---------|-----------------|
| Plant Name | Value | Value | |
| BARNYARD GRASS (Echinochloa crusgalli) | 5 | 10 | |
| CORN (Zea maize) | 2 | 10 | |
| CHUFA, YELLOW NUTSEDGE (Cyperus esculentes) | 5 | 9 | Food Value |
| MILO (Sorghum bicolor) | 2 | 8 | Category |
| BEGGARTICKS (Bidens frondosa) SMARTWEED (Polygonum or Persicaria ssp.) | 8 10 | 8 8 | 8-10 |
| BEGGARTICKS (Bidens spp.) | 8 | 8 | = 0.5 pts |
| FLATSEDGE (Cyperus spp.) | 5 | 8 | (for 25% cover, |
| WHEAT (Triticum aestivum) | 4 | 8 | good cond.) |
| PONDWEED (Potamogeton spp.) | 1 | 8 | |
| ARROW-HEAD (Sagittaria spp.) | 3 | 7 | |
| BEARDED SPRANGLE-TOP (Leptochloa fascicularis) | 6 | 7 | |
| GREEN FOXTAIL (Setaria viridis) | 5 | 7 | Food Value |
| YELLOW BRISTLE GRASS (Setaria pumila) | 5 | 7 | Category |
| BLUE MUD-PLANTAIN (Heteranthera limosa) | 5 | 6 | 6-7 |
| DOCK (Rumex spp.) | 2 | 6 | = 0.3 pts |
| DUCKWEED (Lemna spp.) | 4 | 6 | (for 25% cover, |
| THREE-SQUARE (Schoenoplectus pungens) | 4 | 6 | good cond.) |
| AMARANTHUS, PIGWEED (Amaranthus spp.) | 2 | 6 | |
| FALL PANIC GRASS (Panicum dichotomiflorum) | 5 | 5 | |
| LAMB'S QUARTERS (Chenopodium album) | 5 | 5 | |
| COMMON SUNFLOWER (Helianthus annuus) ALFALFA (Medicago sativa) | 1 1 | 5 5 | |
| ANNUAL RAGWEED (Ambrosia artemisiifolia) | 3 | 4 | |
| FOX-TAIL BARLEY (Hordeum jubatum) | 4 | 4 | |
| RABBITSFOOT GRASS (Polypogon monspeliensis) | 3 | 4 | |
| FOXTAIL/SWAMP TIMOTHY (Crypsis alopecuroides) | 3 | 4 | Food Value |
| SPIKERUSH (Eleocharis palustris) | 3 | 4 | Category |
| SEDGE (Carex spp.) | 5 | 4 | 3-5 |
| RUSH (Juncus spp.) | 3 | 4 | = 0.2 pts |
| KNOTWEED (Polygonum arenastrum) | 1 | 4 | (for 25% cover, |
| WHITE SWEETCLOVER (Melilotus alba) | 1 | 4 | good cond.) |
| LOVEGRASS (Eragrostis spp.) | 6 | 3 | |
| PRAIRIE CORDGRASS, RIPGUT (Spartina pectinata) | 5 | 3 | |
| SWITCHGRASS (Panicum virgatum) | 4 | 3 | |
| COCKLE-BUR (Xanthium strumarium) | 8 | 3 | |
| NODDING WILD RYE (Elymus canadensis) | 1 | 3 | J |
| WHITE-TOP, PEPPERWEED (Lepidium spp.) COTTONWOOD or WILLOW (Populus/Salix) | 1 6 | 3 2 | |
| CATTAIL (Typha spp.) | 5 | 2 | |
| KENTUKY BLUEGRASS (Poa pratensis) | 4 | 2 | |
| HARSTEM BULRUSH (Schoenoplectus acutus) | 3 | 2 | |
| SALTGRASS (Distichlis spicata) | 3 | 2 | |
| TALL WHEATGRASS (Agropyron elongatum) | 1 | 2 | |
| WESTERN WHEATGRASS (Agropyron smithii) | 1 | 2 | |
| REED CANARY GRASS (Phalaris arundinacea) | 4 | 1 | Food Value |
| SAND DROPSEED (Sporobolus cryptandrus) | 1 | 1 | Category |
| WILD ASTER (Aster spp.) | 1 | 1 | 1-2 |
| AMERICAN VETCH (Vicia americana) | 1 | 1 | = 0.1 pts |
| KOCHIA (Kochia scoparia) | 1 | 1 | (for 25% cover, |
| LEAD PLANT (Amorpha canescens) | 1 | 1 | good cond.) |
| MILKWEED (Asclepias spp.) | 1 | 1 | |
| SMOOTH BROME (Bromus inermis) | 3 | 1 | |
| CHEAT GRASS, DOWNY BROME (Bromus tectorum) CANADA THISTLE (Cirsium arvense) | 2 | 1 1 | |
| DOGBANE (Apocynum spp.) | 1 1 | 1 | |
| FIELD BINDWEED (Convolvulus arvense) | 1 | 1 | |
| TILLE BRIDGELLE (CONVOIVAIUS UI VEIISE) | 1 | 1 | |

Values based on "best professional judgement" provided for Nebraska wetland species by Ted LaGrange (Neb. Game and Parks Commission), Dr. Loren Smith (Texas Tech Univ.) and Dr. Leigh Fredrickson (Univ. of Missouri). Colorado food values reviewed by RMBO and FWS. Contact Colin Lee at 970-330-0380 x214 or Colin.Lee @co.usda.gov with questions.