

|                        |  |                             |          |            |                |           |    |        |
|------------------------|--|-----------------------------|----------|------------|----------------|-----------|----|--------|
| Site:                  | Clear Creek  | 340th btwn Ireland & Kansas |          |            |                |           |    |        |
| Locale:                | Clear Creek twnshp john co rdside  |                             |          |            |                |           |    |        |
| Date:                  | August 9 2002  | 4 hours                     |          |            |                |           |    |        |
|                        | Jul 28, 2011   | 2002                        | 6 hours  |            |                |           |    |        |
|                        | Jul 7, 2011  | 2002                        | 4 hours  |            |                |           |    |        |
| By:                    | Taliga   |                             |          |            |                |           |    |        |
| File:                  | c:\FQA\studies\ 340th between ireland and kansas.inv                       |                             |          |            |                |           |    |        |
| Notes:                 | Meander survey mainly the first this species could also be carex haydinii. |                             |          |            |                |           |    |        |
| Site:                  | Clear Creek  | 340th btwn Ireland & Kansas |          |            |                |           |    |        |
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| FLORISTIC QUALITY DATA |  |                             | Native   | 78         | 72.90%         | Adventive | 29 | 27.10% |
| 78 NATIVE SPECIES      |  |                             | Tree     | 3          | 2.80%          | Tree      | 1  | 0.90%  |
| 107 Total Species      |  |                             | Shrub    | 8          | 7.50%          | Shrub     | 0  | 0.00%  |
| 2.9 NATIVE MEAN C      |  |                             | W-Vine   | 3          | 2.80%          | W-Vine    | 0  | 0.00%  |
| 2.1 W/Adventives       |  |                             | H-Vine   | 0          | 0.00%          | H-Vine    | 0  | 0.00%  |
| 25.8 NATIVE FQI        |  |                             | P-Forb   | 34         | 31.80%         | P-Forb    | 11 | 10.30% |
| 22.0 W/Adventives      |  |                             | B-Forb   | 3          | 2.80%          | B-Forb    | 7  | 6.50%  |
| -0.6 NATIVE MEAN W     |  |                             | A-Forb   | 5          | 4.70%          | A-Forb    | 2  | 1.90%  |
| 0.0 W/Adventives       |  |                             | P-Grass  | 6          | 5.60%          | P-Grass   | 5  | 4.70%  |
| AVG:                   | Faculative (+)   |                             | A-Grass  | 1          | 0.90%          | A-Grass   | 3  | 2.80%  |
|                        |  |                             | P-Sedge  | 12         | 11.20%         | P-Sedge   | 0  | 0.00%  |
|                        |  |                             | A-Sedge  | 0          | 0.00%          | A-Sedge   | 0  | 0.00%  |
|                        |  |                             | Fern     | 3          | 2.80%          |           |    |        |
| ACRONYM                | C  | SCIENTIFIC NA W             | WETNESS  | PHYSIOGNOM | COMMON NAME    |           |    |        |
| ACENEG                 |  | 0 Acer negundo              | -2 FACW- | Nt Tree    | Box elder      |           |    |        |
| ACHMIL                 |  | 0 Achillea millefoli        | 3 FACU   | Nt P-Forb  | Western yarrow |           |    |        |
| AGRGIG                 |  | 0 AGROSTIS GIG              | -3 FACW  | Ad P-Grass | Redtop         |           |    |        |
| AMBART                 |  | 0 Ambrosia artem            | 3 FACU   | Nt A-Forb  | Common ragweed |           |    |        |

|        |   |                   |    |       |            |                           |  |  |
|--------|---|-------------------|----|-------|------------|---------------------------|--|--|
| AMBTRI | 0 | Ambrosia trifida  | -1 | FAC+  | Nt A-Forb  | Giant ragweed             |  |  |
| ANDGER | 4 | Andropogon ge     | 1  | FAC-  | Nt P-Grass | Big bluestem grass        |  |  |
| ASCINC | 4 | Asclepias incarr  | -5 | OBL   | Nt P-Forb  | Swamp milkweed            |  |  |
| ASCSYR | 0 | Asclepias syriac  | 5  | UPL   | Nt P-Forb  | Common milkweed           |  |  |
| ASPOFF | 0 | ASPARAGUS O       | 3  | FACU  | Ad P-Forb  | Garden asparagus          |  |  |
| ASTLAN | 4 | Aster lanceolatu  | -5 | OBL   | Nt P-Forb  | Panicled aster            |  |  |
| ASTPIL | 0 | Aster pilosus     | 4  | FACU- | Nt P-Forb  | Hairy aster               |  |  |
| ASTPRE | 7 | Aster prenanthc   | -5 | OBL   | Nt P-Forb  | Crooked aster             |  |  |
| ASTPUN | 5 | Aster puniceus    | -5 | OBL   | Nt P-Forb  | Swamp aster               |  |  |
| BROINE | 0 | BROMUS INER       | 5  | UPL   | Ad P-Grass | Smooth brome              |  |  |
| CALCAN | 5 | Calamagrostis c   | -5 | OBL   | Nt P-Grass | Blue joint grass          |  |  |
| CALSEP | 0 | Calystegia sepi   | 0  | FAC   | Nt P-Forb  | Hedge bindweed            |  |  |
| CARNUT | 0 | CARDUUS NUT       | 5  | UPL   | Ad B-Forb  | Musk thistle              |  |  |
| CXANNX | 6 | Carex annecten    | -3 | FACW  | Nt P-Sedge | Large yellow fox sedge    |  |  |
| CXCRIS | 5 | Carex cristatella | -4 | FACW+ | Nt P-Sedge | Crested oval sedge        |  |  |
| CXGRVG | 1 | Carex gravida     | 5  | UPL   | Nt P-Sedge | Long-awned bracted sedge  |  |  |
| CXHYST | 5 | Carex hystericir  | -5 | OBL   | Nt P-Sedge | Porcupine sedge           |  |  |
| CXLAEC | 6 | Carex laeviconic  | -5 | OBL   | Nt P-Sedge | Long-toothed lake sedge   |  |  |
| CXMOLE | 2 | Carex molesta     | 0  | FAC   | Nt P-Sedge | Field oval sedge          |  |  |
| CXPELL | 4 | Carex pellita     | -5 | OBL   | Nt P-Sedge | Broad-leaved woolly sedge |  |  |
| CXSCOP | 5 | Carex scoparia    | -3 | FACW  | Nt P-Sedge | Lance-fruited oval sedge  |  |  |
| CXSTRC | 6 | Carex stricta     | -5 | OBL   | Nt P-Sedge | Common tussock sedge      |  |  |
| CXVULP | 3 | Carex vulpinoid   | -5 | OBL   | Nt P-Sedge | Brown fox sedge           |  |  |
| CELOCC | 2 | Celtis occidenta  | 1  | FAC-  | Nt Tree    | Hackberry                 |  |  |
| CHEALB | 0 | CHENOPODIUM       | 1  | FAC-  | Ad A-Forb  | Lamb's quarters           |  |  |
| CIRARV | 0 | CIRSIUM ARVE      | 3  | FACU  | Ad P-Forb  | Field thistle             |  |  |
| CIRDIS | 1 | Cirsium discolor  | 5  | UPL   | Nt B-Forb  | Pasture thistle           |  |  |
| CORTRP | 4 | Coreopsis tripte  | 0  | FAC   | Nt P-Forb  | Tall tickseed             |  |  |
| CORDRU | 4 | Cornus drummc     | 0  | FAC   | Nt Shrub   | Rough-leaved dogwood      |  |  |
| CORAME | 3 | Corylus america   | 0  | FAC   | Nt Shrub   | American hazelnut         |  |  |
| CYPSTR | 2 | Cyperus strigos   | -3 | FACW  | Nt P-Sedge | Long-scaled nut sedge     |  |  |
| DAUCAR | 0 | DAUCUS CARC       | 5  | UPL   | Ad B-Forb  | Queen Anne's lace         |  |  |
| ECHCRU | 0 | ECHINOCHLOA       | -3 | FACW  | Ad A-Grass | Barnyard grass            |  |  |
| EQUARV | 0 | Equisetum arve    | 0  | FAC   | Nt Fern    | Common horsetail          |  |  |
| EQLAE  | 6 | Equisetum laevi   | -3 | FACW  | Nt Fern    | Smooth scouring rush      |  |  |
| ERIANN | 0 | Erigeron annuus   | 1  | FAC-  | Nt B-Forb  | Annual fleabane           |  |  |
| EUPPER | 6 | Eupatorium per    | -4 | FACW+ | Nt P-Forb  | Common boneset            |  |  |

|        |   |                    |    |       |            |                          |  |  |
|--------|---|--------------------|----|-------|------------|--------------------------|--|--|
| EUTGRG | 4 | Euthamia grami     | -2 | FACW- | Nt P-Forb  | Grass-leaved goldenrod   |  |  |
| FESPRA | 0 | FESTUCA PRA7       | 4  | FACU- | Ad P-Grass | Meadow fescue            |  |  |
| GALCON | 7 | Galium concinn     | 3  | FACU  | Nt P-Forb  | Shining bedstraw         |  |  |
| HELGRO | 4 | Helianthus gros    | -2 | FACW- | Nt P-Forb  | Saw-tooth sunflower      |  |  |
| HELTUB | 0 | Helianthus tube    | 0  | FAC   | Nt P-Forb  | Jerusalem artichoke      |  |  |
| HEMFUL | 0 | HEMEROCALLI        | 5  | UPL   | Ad P-Forb  | Day lily                 |  |  |
| HORJUB | 0 | Hordeum jubatu     | -1 | FAC+  | Nt P-Grass | Squirrel-tail barley     |  |  |
| IMPCAP | 3 | Impatiens capei    | -3 | FACW  | Nt A-Forb  | Spotted touch-me-not     |  |  |
| JUNDUD | 2 | Juncus dudleyi     | 0  | FAC   | Nt P-Forb  | Dudley's rush            |  |  |
| LACSER | 0 | LACTUCA SERI       | 0  | FAC   | Ad B-Forb  | Prickly lettuce          |  |  |
| LATPAL | 7 | Lathyrus palusti   | -3 | FACW  | Nt P-Forb  | Marsh vetchling          |  |  |
| LESCAP | 3 | Lespedeza capi     | 3  | FACU  | Nt P-Forb  | Round-headed bush clover |  |  |
| LOBSIP | 3 | Lobelia siphilitic | -4 | FACW+ | Nt P-Forb  | Great blue lobelia       |  |  |
| LOTCOR | 0 | LOTUS CORNIC       | 1  | FAC-  | Ad P-Forb  | Bird's foot trefoil      |  |  |
| LYCAME | 4 | Lycopus americ     | -5 | OBL   | Nt P-Forb  | Common water horehound   |  |  |
| LYSCIL | 4 | Lysimachia cilia   | -3 | FACW  | Nt P-Forb  | Fringed loosestrife      |  |  |
| LYTALA | 3 | Lythrum alatum     | -5 | OBL   | Nt P-Forb  | Winged loosestrife       |  |  |
| MEDLUP | 0 | MEDICAGO LUI       | 1  | FAC-  | Ad A-Forb  | Black medick             |  |  |
| MEDSAT | 0 | MEDICAGO SA        | 5  | UPL   | Ad P-Forb  | Alfalfa                  |  |  |
| MELALB | 0 | MELILOTUS AL       | 3  | FACU  | Ad B-Forb  | White sweet clover       |  |  |
| MELOFC | 0 | MELILOTUS OF       | 3  | FACU  | Ad B-Forb  | Yellow sweet clover      |  |  |
| MONFIS | 2 | Monarda fistulo    | 3  | FACU  | Nt P-Forb  | Wild bergamot            |  |  |
| MORALB | 0 | MORUS ALBA         | 0  | FAC   | Ad Tree    | White mulberry           |  |  |
| OENBIE | 0 | Oenothera bieni    | 3  | FACU  | Nt B-Forb  | Common evening primrose  |  |  |
| ONOSEN | 6 | Onoclea sensibi    | -3 | FACW  | Nt Fern    | Sensitive fern           |  |  |
| OXADIL | 0 | Oxalis dillenii    | 5  | UPL   | Nt P-Forb  | Common wood sorrel       |  |  |
| PANVIR | 5 | Panicum virgatu    | -1 | FAC+  | Nt A-Grass | Switch grass             |  |  |
| PARVIT | 1 | Parthenocissus     | 3  | FACU  | Nt W-Vine  | Thicket creeper          |  |  |
| PASSAT | 0 | PASTINACA SA       | 5  | UPL   | Ad B-Forb  | Wild parsnip             |  |  |
| PHAARU | 0 | PHALARIS ARU       | -4 | FACW+ | Ad P-Grass | Reed canary grass        |  |  |
| PHLPAN | 0 | PHLOX PANICL       | 3  | FACU  | Ad P-Forb  | Garden phlox             |  |  |
| PLARUG | 0 | Plantago rugelii   | 0  | FAC   | Nt A-Forb  | Red-stalked plantain     |  |  |
| POAPRA | 0 | POA PRATENSI       | 1  | FAC-  | Ad P-Grass | Kentucky blue grass      |  |  |
| POLBIF | 4 | Polygonatum bi     | 3  | FACU  | Nt P-Forb  | Solomon's seal           |  |  |
| PYCPIL | 5 | Pycnanthemum       | 5  | UPL   | Nt P-Forb  | Hairy mountain mint      |  |  |
| RHUGLA | 0 | Rhus glabra        | 5  | UPL   | Nt Shrub   | Smooth sumac             |  |  |
| ROSCAR | 4 | Rosa carolina      | 4  | FACU- | Nt Shrub   | Pasture rose             |  |  |

|        |    |                  |    |       |            |                       |  |  |
|--------|----|------------------|----|-------|------------|-----------------------|--|--|
| RUBREA | 4  | Rubus recurvan   | 3  | FACU  | Nt Shrub   | Recurved blackberry   |  |  |
| RUDHIR | 2  | Rudbeckia hirta  | 3  | FACU  | Nt P-Forb  | Black-eyed Susan      |  |  |
| RUMALT | 0  | Rumex altissim   | 4  | FACU- | Nt P-Forb  | Pale dock             |  |  |
| RUMCRI | 0  | RUMEX CRISPL     | -1 | FAC+  | Ad P-Forb  | Curly dock            |  |  |
| SALAMY | 3  | Salix amygdaloi  | -3 | FACW  | Nt Tree    | Peach-leaved willow   |  |  |
| SALEXI | 0  | Salix exigua ssp | -5 | OBL   | Nt Shrub   | Sandbar willow        |  |  |
| SALSEC | 10 | Salix sericea    | -5 | OBL   | Nt Shrub   | Silky willow          |  |  |
| SAMCAN | 1  | Sambucus cana    | 4  | FACU- | Nt Shrub   | Elderberry            |  |  |
| SCHSCO | 5  | Schizachyrium s  | 4  | FACU- | Nt P-Grass | Little bluestem       |  |  |
| SCIATR | 1  | Scirpus atrovire | -5 | OBL   | Nt P-Sedge | Dark green rush       |  |  |
| SETFAB | 0  | SETARIA FABEL    | 2  | FACU+ | Ad A-Grass | Giant foxtail         |  |  |
| SETGLA | 0  | SETARIA GLAU     | 0  | FAC   | Ad A-Grass | Yellow foxtail        |  |  |
| SOLCAN | 0  | Solidago canad   | 3  | FACU  | Nt P-Forb  | Tall goldenrod        |  |  |
| SORNUT | 4  | Sorghastrum nu   | 2  | FACU+ | Nt P-Grass | Indian grass          |  |  |
| SPOASP | 3  | Sporobolus asp   | 5  | UPL   | Nt P-Grass | Rough dropseed        |  |  |
| STAPAL | 4  | Stachys palustr  | -5 | OBL   | Nt P-Forb  | Woundwort             |  |  |
| STRHEL | 5  | Strophostyles h  | -1 | FAC+  | Nt A-Forb  | Trailing wild bean    |  |  |
| TAROFF | 0  | TARAXACUM C      | 3  | FACU  | Ad P-Forb  | Common dandelion      |  |  |
| TEUCAN | 4  | Teucrium canac   | -2 | FACW- | Nt P-Forb  | Germander             |  |  |
| TOXRAD | 0  | Toxicodendron    | -1 | FAC+  | Nt W-Vine  | Poison ivy            |  |  |
| TRIPRA | 0  | TRIFOLIUM PR     | 2  | FACU+ | Ad P-Forb  | Red clover            |  |  |
| TYPAUG | 0  | TYPHA ANGUS      | -5 | OBL   | Ad P-Forb  | Narrow-leaved cattail |  |  |
| TYPLAT | 1  | Typha latifolia  | -5 | OBL   | Nt P-Forb  | Broad-leaved cattail  |  |  |
| TYPGLA | 0  | TYPHA X GLAU     | -5 | OBL   | Ad P-Forb  | Hybrid cattail        |  |  |
| VERTHA | 0  | VERBASCUM T      | 5  | UPL   | Ad B-Forb  | Common mullein        |  |  |
| VERHAS | 3  | Verbena hastata  | -4 | FACW+ | Nt P-Forb  | Blue vervain          |  |  |
| VERVIM | 5  | Veronicastrum v  | 0  | FAC   | Nt P-Forb  | Culver's root         |  |  |
| VIOSOR | 1  | Viola sororia    | 1  | FAC-  | Nt P-Forb  | Hairy blue violet     |  |  |
| VITRIP | 1  | Vitis riparia    | -2 | FACW- | Nt W-Vine  | Riverbank grape       |  |  |