



UNITED SEEDS INC



United FACW Wetland Mixture is formulated to more accurately represent species found in Zone 3 (Iowa) and Zone 5 (Nebraska) as designated by the USDA Wetland Indicator Status. FACW wetland species are found in wet soils that will occasionally dry out during summer months. *United FACW Wetland Mixture* is a complete mixture of native warm season grasses, native cool season grasses, wildflowers and sedges. Special emphasis of specie selection was placed on seed count per pound to minimize domination of smaller sized seeds. Dormant seeding is recommended for natural seed stratification.

Seeding Rates: 15 Pounds / Acre (Drill Seeded) _ 18 Pounds / Acre (Broadcast or Dormant Seeded)

Seeding Dates: March-July_ Dormant Seeded: Mid-November-March

Germination Times: 10-30 Days as a Mixture

Botanical Name	Common Name	% of Mix	PLS Rate Per Acre (15 LBS/AC)	Mature Height	Flower Color
<i>Agrostis gigantea</i>	RED TOP	1.67%	0.25	2-3'	NA
<i>Andropogon gerardii</i>	BIG BLUESTEM	6.67%	1	5-7'	NA
<i>Aster Novae-angliae</i>	NEW ENGLAND ASTER	1.67%	0.25	2-6'	Purple
<i>Aster umbellatus</i>	FLAT TOPPED WHITE ASTER	0.13%	0.02	2-6'	White
<i>Bindens frondosa</i>	BEGGAR TICKS	1.67%	0.25	4'	Yellow
<i>Carex crinita</i>	FRINGED (NODDING) SEDGE	0.47%	0.07	3'	NA
<i>Carex lupulina</i>	HOP SEDGE	1.67%	0.25	3'	NA
<i>Carex scoparia</i>	BLUNT BROOM SEDGE	1.33%	0.2	2'	NA
<i>Elymus canadensis</i>	CANADA WILDRYE	16.67%	2.5	3-4'	NA
<i>Elymus virginicus</i>	VIRGINIA WILDRYE	18.33%	2.75	3-4'	NA
<i>Eupatorium perfolitum</i>	BONESET	0.33%	0.05	5'	White
<i>Euthamia graminifolia</i>	GRASS LEAVED GOLDENROD	0.33%	0.05	2-3'	Yellow
<i>Festuca rubra ssp. Commutata</i>	CHEWINGS FESCUE	11.67%	1.75	2-3'	NA
<i>Glyceria grandis</i>	AMERICAN MANNAGRASS	0.33%	0.05	5-6'	NA
<i>Helenium autumnale</i>	COMMON SNEEZEWEED	0.33%	0.05	4-5'	Yellow
<i>Helopsis helianthoides</i>	OXEYE SUNFLOWER	2.67%	0.4	4'	Yellow
<i>Helianthus grosseserratus</i>	SAWTOOTH SUNFLOWER	0.20%	0.03	5-7'	Yellow
<i>Juncus tenuis</i>	PATH RUSH	0.13%	0.02	1'	NA
<i>Lobelia siphilitica</i>	GREAT BLUE LOBELIA	0.13%	0.02	1'4	Blue
<i>Panicum virgatum</i>	SWITCHGRASS	6.67%	1	5-6'	NA
<i>Phleum pratense</i>	TIMOTHY	5.00%	0.75	1.5-3'	NA
<i>Physostegia virginiana</i>	OBEDIENT PLANT	0.13%	0.02	1-4'	Purple
<i>Poa palustris</i>	FOWL BLUEGRASS	11.67%	1.75	2-3'	NA
<i>Polygonum pensylvanicum</i>	PENNSLYVANIA SMARTWEED	1.00%	0.15	4-5'	Pink/Purple
<i>Rudbeckia laciniata</i>	CUTLEAF CONEFLOWER	0.13%	0.02	5'	Yellow
<i>Silphium perfoliatum</i>	CUP PLANT	1.33%	0.2	7-8'	Yellow
<i>Spartina pectinata</i>	PRAIRIE CORDGRASS	3.33%	0.5	6'	NA
<i>Verbena hastata</i>	BLUE VERVAIN	1.33%	0.2	2-4'	Violet
<i>Vernonia gigantea</i>	GIANT IRONWEED	1.33%	0.2	3-6'	Purple
<i>Zizia aurea</i>	GOLDEN ALEXANDERS	1.67%	0.25	3'	Yellow



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COMMON NAME	ORIGIN	LOT NUMBER	TEST DATE					TOTAL			TOTAL	PLS	PLS
				PURITY	CROP	INERT	WEED	PURE	GERM	DORMAN	GERM.	%	FACTOR
RED TOP	ND	14077	10/15/2016	98.90%	0.00%	1.10%	0.00%	100.00%	86%	0%	86%	85.05%	1.176
BIG BLUESTEM	IA	ANDGER016D	10/25/2016	94.07%	0.05%	5.85%	0.03%	100.00%	5%	87%	92%	86.54%	1.155
NEW ENGLAND ASTER	IA	ASTNOV146A	1/10/2017	96.08%	0.00%	3.92%	0.00%	100.00%	88%	0%	88%	84.55%	1.183
FLAT TOPPED ASTER	PA	ASTUMB0136A	10/15/2016	99.39%	0.00%	0.61%	0.00%	100.00%	95%	0%	95%	94.42%	1.059
CROWNED BEGGAR TICKS	IA	BIDCOR145A	12/1/2016	99.03%	0.00%	0.97%	0.00%	100.00%	82%	0%	82%	81.20%	1.231
FRINGED SEDGE	PA	CARCRI01-14MX	10/15/2016	98.29%	0.06%	1.65%	0.00%	100.00%	47%	41%	88%	86.50%	1.156
HOP SEDGE	PA	CARLUP01-16PA- KEB	12/15/2016	99.65%	0.00%	0.35%	0.00%	100.00%	1%	88%	89%	88.69%	1.128
BLUNT BROOM SEDGE	PA	CARSCO01-15	1/15/2017	89.24%	0.07%	10.69%	0.00%	100.00%	40%	42%	82%	73.18%	1.367
CANADA WILDRYE	MN	E5504	10/19/2016	96.29%	0.00%	3.71%	0.00%	100.00%	96%	0%	96%	92.44%	1.082
VIRGINIA WILDRYE	MN	ELYVIR0116WH12	11/15/2016	99.29%	0.00%	0.71%	0.00%	100.00%	96%	0%	96%	95.32%	1.049
BONESET	MN	EUPPER955B	1/15/2017	67.19%	0.00%	32.81%	0.00%	100.00%	11%	79%	90%	60.47%	1.654
ELM-LEAVED GOLDENROD	IL	PM 3541N	10/28/2016	97.08%	0.51%	1.98%	0.43%	100.00%	92%	0%	92%	89.31%	1.120
CHEWINGS FINE FESCUE	OR	M94-15-CF3	11/15/2016	99.18%	0.00%	0.80%	0.02%	100.00%	95%	0%	95%	94.22%	1.061
AMERICAN MANNAGRASS	SD	RMG14W	1/15/2017	99.24%	0.00%	0.76%	0.00%	100.00%	12%	75%	87%	86.34%	1.158
SNEEZEWEED	MN	HELAUT146A	1/15/2017	91.50%	0.00%	8.50%	0.00%	100.00%	25%	62%	87%	79.61%	1.256
FALSE/OXEYED SUNFLOWER	IA	HELHEL466A	1/10/2017	99.93%	0.00%	0.07%	0.00%	100.00%	40%	41%	81%	80.94%	1.235
SAWTOOTH SUNFLOWER	MN	PX2343A	10/1/2016	97.45%	0.00%	2.55%	0.00%	100.00%	20%	65%	85%	82.83%	1.207
PATH RUSH	PA	JUNTEN01-16PA- TAL	1/5/2017	93.82%	0.00%	6.18%	0.00%	100.00%	1%	93%	94%	88.19%	1.134
GREAT BLUE LOBELIA	IA	14.A.2052Z1	1/12/2017	93.89%	0.00%	6.11%	0.00%	100.00%	21%	72%	93%	87.32%	1.145
SWITCHGRASS	IA	PANVIR466A	11/15/2016	99.95%	0.00%	0.05%	0.00%	100.00%	98%	0%	98%	97.95%	1.021
TIMOTHY	CAN	160093	2/20/2017	99.61%	0.00%	0.29%	0.10%	100.00%	99%	0%	99%	98.61%	1.014
OBEDIENT PLANT	IA	14.A.5028A	2/1/2017	98.98%	0.00%	1.02%	0.00%	100.00%	12%	80%	92%	91.06%	1.098
FOWL BLUEGRASS	CAN	POAPAL685A	1/20/2017	87.47%	3.37%	9.01%	0.15%	100.00%	90%	2%	92%	80.47%	1.243
PENNSLYVANNIA SMARTWEED	OH	POLPEN01-10	12/15/2016	99.95%	0.00%	0.05%	0.00%	100.00%	1%	88%	89%	88.96%	1.124
CUTLEAF CONEFLOWER	NE	NS011316-1	10/15/2016	97.59%	0.00%	2.36%	0.05%	100.00%	96%	2%	98%	95.64%	1.046
CUP PLANT	MN	SILPER027A	12/2/2016	86.81%	0.00%	13.19%	0.00%	100.00%	94%	0%	94%	81.60%	1.225
PRAIRIE CORDGRASS	MN	D1516	12/1/2016	71.46%	0.23%	28.28%	0.03%	100.00%	45%	50%	95%	67.89%	1.473
BLUE VERVAIN	WI	VERHAS766C	1/15/2017	99.76%	0.00%	0.20%	0.04%	100.00%	4%	91%	95%	94.77%	1.055
IRONWEED	MN	VARFAS876A	11/4/2016	85.00%	0.00%	15.00%	0.00%	100.00%	50%	40%	90%	76.50%	1.307
GOLDEN ALEXANDERS	IA	ZIZAUUR466B	12/7/2016	99.90%	0.00%	0.10%	0.00%	100.00%	91%	0%	91%	90.91%	1.100