

Common Name	Habitat*	Exposure**	Height (feet)	Spacing (feet)	Flower Color	Bloom Time
Sweet Flag	A,W	FS	2-3.5	2.5	Yellow-Green	May-July
Red Baneberry	UM	PS, FSH	1-3	2	White	May-July
Maidenhair fern	UM	FSH	1-1.5	1-2	---	---
Blue giant hyssop	UM, UD	FS, PS	3-4	2	Blue	July-August
Mud plantain	W	FS	1-2	1-2	White	July-August
Water plantain	W	FS	2-3	2-3	White	June-Sept
Prairie wild onion	UM, UD	FS, PS	1-2	1	Pink	July-August
Wild leek	UM	PS, FSH	0.5-1	0.5-1	White	June-July
Hog peanut	UM, UD	PS, FSH	3-4.5	3	Pale purple to white	August-Sept
Canada anemone	W, UM	FS, PS	1-2	2	White	May-July
Thimbleweed	UM, UD	FS	1-2	1	White	June-July
Wood anemone	UM	PS, FSH	0-0.5	0.5-1	White	April-June
Rue-anemone	UM, UD	PS, FSH	0.5-1	0.5-1	White to Pink	April-May
Narrow-leaved pussytoes	UD	FS, PS	0.5-1	1-2	White	April-June
Spreading dogbane	UM, UD	FS, PS, FSH	1-3	3	Pinkish	June-August
Indian hemp	UM	FS	1-4	3	White	May-Sept
Columbine	UM, UD	FS, PS, FSH	2-3	1.5	Red and Yellow	May-July
Wild sarsaparilla	UM, UD	PS, FSH	0.5-1	1-2	Greenish-White	May-June
American spikenard	UM	PS, FSH	3-6	3	Greenish-White	July
Jack-in-the-pulpit	W, UM	PS, FSH	0.5-3	1-2	Brown-Green	April-June
Prairie sage	UD	FS	1-3	3	Yellow-Green	July-Sept
Saw-toothed sage	UM	FS, PS	3-5	1-3	Greenish	July-Sept
Wild ginger	UM	PS, FSH	0-0.5	1.5	Reddish-brown	May
Swamp milkweed	W, UM	FS	3-4	2-3	Pink	June-August
Butterfly weed	UD	FS, PS	1.5-2	2-3	Orange	June-August
Whorled milkweed	UD	FS, PS	1-1.5	1-2	White	June-August
Heath aster	UM, UD	FS, PS	1-3	2-3	White	July-Oct
Smooth aster	UM	FS, PS	1-3	2-3	Blue-violet	August-Oct
New England aster	W, UM	FS, PS	3-5	2-3	Violet, Blue, Pink	August-Oct
Aromatic aster	UD	FS	1-1.5	2-3	Violet-purple	August-Sept
Red-stemmed aster	W	FS, PS	1.5-5	2-3	Blue-violet	August-Oct
Silky aster	UM, UD	FS	0.5-2	0.5-1	Bluish to Pink	August-Oct
Panicled aster	W, UM	FS	2-4	2-3	White	August-Oct
Flat-topped aster	W, UM	FS, PS	3-4	3	Creamy White	August-Sept

Canada milk-vetch	UM	FS, PS	3-4	3	Pale Yellow	June-August
Buffalo-bean (Ground plum)	UD	FS	0.5-1	1-2	Purplish-Pink	May
Lady fern	UM	PS, FSH	1.5-3	1-2	---	---
Boltonia	W, UM	FS, PS	4-8	3	White	August-Sept
Marsh Marigold	W, UM	FS, PS, FSH	0.5-2	1.5	Yellow- Orange	April-June
Tall bellflower	W, UM	PS	1.5-5	2	Blue	July-Sept
Marsh bellflower	W, UM	FS, PS	0.5-3	1-2	White	June-August
Harebell	UM, UD	FS, PS	1-1.5	1	Blue	June-Sept
Blue cohosh	UM	PS, FSH	1.5-3	2-3	Pale Yellow-Green	May
Turtlehead	W, UM	FS, PS	1-3	2	White	July-Sept
Swamp thistle	W, UM	FS, PS	2-5	1-2	Pinkish-blue	July-Sept
Spring beauty	UM	PS, FSH	0-0.5	0.5	Pink	April-May
Virgin's bower	UM	FS, PS	6-10	1-3	White	July-Sept
Star toadflax	UM	FS, PS	0.5-1	1	White	May-July
Stiff tickseed	UM, UD	FS, PS	1-2	2.5	Yellow	June-July
Prairie larkspur	UD	FS	1-3	1	Whitish	June-July
Cut-leaved toothwort	UM	FSH	0-0.5	1-2	White	May
Canada tick trefoil	UM, UD	FS, PS	3-6	3	Magenta	July-August
Dutchman's breeches	UM	FSH	0-1	1	White	April-May
Wood fern	UM	FSH	1-2	1.5-2	---	---
Willow-herb	W	FS, PS	0.5-2	0.5	Pale Pink	July-Sept
Water-horestail	A, W	FS, PS	0.5-3	1-2	---	---
White trout lily	UM	FSH	0.5-1	1	White	April-May
Spotted Joe-Pye-weed	W, UM	FS, PS	3-6	3	Pink	July-Sept
Boneset	W, UM	FS, PS	2-4	2-3	White	July-Oct
Sweet Joe-Pye-weed	UM	PS, FSH	3-6	3	Purplish-Pink	August-Sept
White snakeroot	UM	PS, FSH	1-2	1-2	White	August-Sept
Grass-leaved goldenrod	W, UM	FS	1-3	2	Yellow	August-Sept
Common strawberry	UM, UD	FS, PS	0-0.5	2	White	April-June
Northern bedstraw	UM, UD	FS, PS	1-2.5	2	White	June-July
Bottle gentian	W, UM	FS, PS	1-2	1	Blue	August-Oct
Wild geranium	UM	PS, FSH	1-2	1-2	Pink; Violet	May-June
Yellow avens	UM	FS, PS	2-3	1-1.5	Yellow	June-August
Prairie smoke	UM, UD	FS	0.5-1	0.5-1	Purplish-Red	April-June
Sneezeweed	W, UM	FS, PS	2-5	3	Yellow	August-Oct
Giant sunflower	W, UM	FS	3-10	3	Yellow	August-Oct

Sawtooth sunflower	W, UM	FS, PS	3-10	4	Yellow	August-Oct
Ox-eye	UM, UD	FS, PS	1.5-4	1-2	Yellow	July-Sept
Hairy sunflower	UM, UD	FS, PS	3-7	3	Yellow	August-Oct
Maximilian sunflower	UM, UD	FS	2-9	5	Yellow	August-Oct
Stiff sunflower	UM, UD	FS	3-5	1.5-2	Yellow	August-Oct
Woodland sunflower	UM, UD	FS, PS	3-6	3	Yellow	August-Sept
Jerusalum artichoke	UM, UD	FS, PS	3-7	2-3	Yellow	August-Oct
Sharp-lobed hepatica	UM, UD	FSH	0-0.5	1	Pinkish-blue; White	April-May
Cow parsnip	W	FS	5-9	4	White	June-July
Alumroot	UM, UD	FS, PS	1-2	1-1.5	Greenish-white	May-July
Canada hawkweed	UM, UD	FS, PS	1.5-3	0.5-1	Yellow	July-Sept
Virginia waterleaf	UM, UD	PS, FSH	0.5-1.5	2	Pinkish-blue	June
Great St. John's-wort	W, UM	FS, PS	2-4	2	Yellow	July-August
Yellow stargrass	UM, UD	FS, PS	0.5-1	1	Yellow	May-June
Blue flag iris	W	FS, PS	1.5-3.5	2	Blue-violet	June-July
White vetchling	UM, UD	PS, FSH	0.5-2	1-2	Creamy white	May-July
Marsh vetchling	W	FS, PS	1-4	3	Reddish-purple	June-July
Veiny vetchling	UM, UD	FS, PS	1-2.5	1-2	Magenta	May-June
Round-headed bush clover	UM, UD	FS, PS	2-4	2	White	July-Sept
Rough blazing star	UM, UD	FS, PS	1.5-4	1.5	Pinkish; Lavender	August-Sept
Meadow blazing star	W, UM	FS, PS	1-3	1.5	Pinkish; Lavender	August-Sept
Dotted blazing star	UD	FS	0.5-1.5	1-1.5	Pinkish; Lavender	August
Prairie blazing star (Gay-feather)	W, UM	FS, PS	2-5	1.5	Rose; Lavender	July-August
Michigan lily	W, UM	FS, PS	2-6	2	Orange	July
Wood lily	W, UM	FS, PS	1-2.5	1	Orange	June-July
Great blue lobelia	W, UM	FS, PS	1-3	1.5	Blue	August-Sept
Pale-spiked lobelia	UM	FS	0.5-1.5	0.5	Pale lavender	June-August
Water horehound (Cut-leaved bugleweed)	W	FS, PS	1-3	1.5	White	July-Sept
Northern bugleweed	W	FS	0.5-1.5	0.5	White	July-Sept
Fringed loosestrife	W, UM	FS, PS	1-3	1	Yellow	June-Sept
Prairie loosestrife	W, UM	FS	1-3	1	Yellow	July-August
Tufted loosestrife	W	FS, PS	1-2.5	1	Yellow	June
Canada mayflower	UM, UD	FSH	0-0.5	0.5-1	White	May
Ostrich fern	W, UM	FSH	2-4	3	---	---
Wild mint	W	FS	1-2.5	1.5	Pinkish-blue	July-Sept
Buck bean	W	FS, PS	1-1.5	2	White	May-June

Monkeyflower	W	FS, PS	1-3	1	Blue-purple	July-August
Heart-leaved four-o'clock	UM	FS	1.5-4	1.5-2	Magenta; Pink	July-Oct
Miterwort	UM	FSH	0.5-1	1.5	White	May-June
Wild bergamot	UM, UD	FS, PS	2-3.5	3	Lavender	July-August
Yellow pond lily	A	FS, PS	0-0.5	5	Yellow	June-Sept
White water lily	A	FS, PS	0-0.5	5	White	July-August
Sensitive fern	W, UM	FS, PS	1-2	2	---	---
Sweet cicely	UM	FSH	1.5-3	2	White	June-August
Interrupted fern	W, UM	PS, FSH	3-4	3	---	---
Ditch stonecrop	W, UM	FS	0.5-1	0.5-1	Yellowish-green	July-Oct
White prairie clover	UM, UD	FS	1-2.5	1-2	White	June-July
Purple prairie clover	UM, UD	FS	1-2	2-3	Purplish-pink	June-July
Blue phlox	UM, UD	PS, FSH	0.5-1.5	1.5	Blue	May-June
Prairie phlox	UM, UD	FS, PS	1-2	1-1.5	Pink	June
Obedient plant	W, UM	FS, PS	2-4	2	Pink	July-Sept
Swamp smartweed	W, UM	FS	1-5	3	Pink	June-August
Giant Solomon's-seal	UM, UD	PS, FSH	1-3	2-3	Whitish	May
Dock-leaved smartweed	W, UM	FS	2-5	3	Pinkish-white	June-Oct
Pennsylvania smartweed	W, UM	FS	2-5	3	Pinkish-white	June-Oct
Tall cinquefoil	UM, UD	FS	1-2	1-1.5	Creamy white	June-August
Marsh-cinquefoil	W, UM	FS, PS	0.5-3	2-3	Reddish-purple	June-August
Prairie turnip	UD	FS	0.5-1	1-1.5	Blue	May-June
Pasque flower	UD	FS	0-0.5	1	Pale lavender	April-May
Virginia mountain mint	W, UM, UD	FS, PS	1-3	2	White	July-August
Hairy crowfoot	W	FS, PS	1-3	1.5-2	Yellow	May-June
Grey-headed coneflower	UM, UD	FS, PS	3-5	2	Yellow	July-August
Black-eyed Susan	UM, UD	FS, PS	1-3	1.5	Yellow	July-August
Green-headed (or tall) coneflower	W, UM	FS, PS	3-9	3	Yellow	July-August
Water dock	W	FS	3-8	4	Whitish-green	July-August
Northern arrowhead	A, W	FS, PS	1.5-2.5	3	White	July-August
Common arrowhead	A, W	FS, PS	2-3.5	3	White	July-August
Sessile-fruited arrowhead	A, W	FS, PS	1.5-2.5	2-3	White	July-August
Bloodroot	UM	PS, FSH	0.5-1	1.5	White	April-May
Marsh skullcap	W	FS, PS	1-2.5	2	Blue	June-August
Mad-dog skullcap	W	FS, PS	1-2.5	2	Blue	July-August
Cup-plant	W, UM	FS, PS	4-8	3	Yellow	July-August

Blue-eyed grass	UM, UD	FS, PS	0.5-1	1	Pale Blue	May-June
Water parsnip	W	FS, PS	2-6	1-3	White	July-August
False Solomon's seal	UM	PS, FSH	1.5-2.5	1.5	Creamy white	May-June
Starry false Solomon's seal	UM, UD	FS, PS, FSH	0.5-1	1-2	Whitish	May-June
Canada goldenrod	W, UM	FS	2-4	3	Yellow	July-Sept
Zig-zag goldenrod	UM, UD	PS, FSH	1-3	2	Yellow	August-Sept
Giant goldenrod	W, UM	FS, PS	2-5	1.5	Yellow	August-Sept
Gray goldenrod	UD	FS	0.5-2	1-2	Yellow	August-Sept
White upland aster	UD	FS	1-2	1-2	White	July-August
Riddell's goldenrod	W, UM	FS	1.5-3.5	1.5	Yellow	August-Sept
Stiff goldenrod	UM, UD	FS, PS	1-5	1.5	Yellow	August-Oct
Showy goldenrod	UM, UD	FS	2-4	1.5-2	Yellow	August-Oct
Giant bur-reed	A, W	FS	2-5	3	---	June-July
Hedge nettle	W, UM	FS, PS	1-3	2	Lavender	June-August
Germander	W, UM	FS	1-3	1.5	Lavender	July-August
Tall meadow rue	W	FS, PS	3-6	3	Cream	June
Early meadow rue	UM	PS, FSH	1-2	1.5	Greenish-yellow	May
Marsh fern	W	FS, PS	1-2	1.5		
Bracted spiderwort	UM, UD	FS, PS	1-1.5	1.5	Pinkish-purple	June
Marsh St. John's-wort	W	FS, PS	0.5-1.5	0.5-1	Pinkish	July-August
Nodding trillium	UM	FSH	0.5-1	1	White	July
Broad-leaved cattail	A, W	FS	3-9	2-4	---	---
Large-flowered bellwort	UM	FSH	0.5-1.5	1-2	Yellow	May
Blue vervain	W, UM	FS	2-5	1-2	Blue	July-Sept
Hoary vervain	UM, UD	FS	1-2	1-1.5	Blue	June-Sept
Ironweed	W, UM	FS, PS	3-6	2-3	Magenta	July-Sept
American brooklime	W	FS	0.5-1	0.5	Violet	June-August
Culver's root	W, UM	FS, PS	3-5	1-2	White	July-August
American vetch	UM	FS	1-2	1	Blue; Purple	May-July
Canada violet	UM	PS, FSH	0.5-1	1-2	White	May-June
Northern white violet	W	FS	0-0.5	1	White	April-May
Prairie bird-foot violet	UM, UD	FS	0-0.5	1	Blue-violet	May-June
Downy yellow violet	UM	PS, FSH	0.5-1	1	Yellow	May-June
Woolly blue violet	W, UM	FS, PS, FSH	0.5-1	1	Blue-violet	May-June
Heart-leaved alexanders	UM	FS, PS	1-2	1-2	Yellow	July-Sept
Golden alexanders	W, UM	FS, PS	1-3	1-2	Yellow	May-June

*Habitat descriptions:

A = Aquatic

W = Transitional

UM = Upland-Moist

UD = Upland-Dry

**Exposure descriptions:

FS = Full Sun

PS = Partial Sun

FSH = Full Shade

Common Name	Habitat*	Exposure**	Height (feet)	Spacing (feet)
Slender wheatgrass	UM	FS, PS	2-4	2-4
Big bluestem	UM, UD	FS	2-6	3
Side-oats grama	UM, UD	FS	1-3	1
Blue grama	UD	FS	0.5-1	1
Hairy grama	UD	FS	0.5-1	1
Fringed brome	W, UM	FS, PS	2-3	1
Kalm's brome	W,UM,UD	FS	1-3	1
Tall brome	UM	PS, FSH	3-4	1-3
Bluejoint grass	W,UM	FS	3-6	1.5
Sand reedgrass	UD	FS	2-4	2-4
Foxtail sedge	UM	PS, FSH	1-2	1
Water sedge	W	FS	2-5	2
Slough sedge	W	FS	3-4	2-3
Bebb's sedge	W, UM	FS	1-2	1
Eastern woodland sedge	UM	PS, FSH	0.5-1	1-3
Shortbeak sedge	UM	FS	1-2	2-3
Bottlebrush sedge	W	FS	2-4	2-3
Eastern star sedge	UM	PS, FSH	0.5-1	1-2
Crested sedge	W, UM	FS	1-2	1.5
Dewey's sedge	UM	PS, FSH	0.5-1	1-2
Graceful sedge	UM	PS, FSH	1-2	2-3
Porcupine sedge	W	FS	2-3	1-2
Lake sedge	W	FS	2-4	1.5-3
Woolly sedge	W	FS	1.5-2	1-2
Peck's sedge	UM	PS, FSH	0.5-1	1
Prairie sedge	W	FS, PS	1.5-3	2
Retorse sedge	W	FS	1-3.5	1-2
Beaked sedge	W	FS	1-4	2
Sartwell's sedge	W	FS	1-2.5	2
Pointed broom sedge	W	FS	0.5-2.5	1-2
Sprengel's sedge	UM, UD	FS, PS	1-2	1-2
Awl-fruited sedge	W	FS, PS	2-3	1.5
Tussock sedge	W	FS	2-3	1.5-2
Fox sedge	W, UM	FS	1-3	1.5
Canada wild rye	UM, UD	FS	2-3	1
Bottlebrush grass	W, UM, UD	PS, FSH	2-4	1
Downy wild-rye	UM	FS, PS	2-3	1-2
Virginia wild-rye	W, UM	PS	2-4	1
Cotton grass	W	FS	1-2	2
Nodding fescue	UM	PS, FSH	2-4	2-4
Tall manna grass	W	FS	3-5	2
Fowl manna grass	W	FS, PS	1-3	1
Sweet grass	W, UM	FS	1-3	1-2
Stiff rush	W	FS	1-2	1
Knotted rush	W	FS	1-1.5	1
Path rush	W, UM	FS, PS	0.5-2	1-2
Torrey rush	W, UM	FS	1-3	1-2

Junegrass	UD	FS	1-2	1
Rice cutgrass	W	FS	2-4	1-3
Swamp satin grass	W	FS	1.5-4	1-1.5
Mexican satin grass	W, UM	FS	1.5-3	1-1.5
Mountain rice grass	UM	PS, FSH	0.5-1	3
Leiberg's panic grass	UM	FS, PS	0.5-1	1-2
Switchgrass	W, UM, UD	FS	3-5	2-3
Fowl meadow grass	W	FS, PS	2-4	2
Little bluestem	UM, UD	FS	1-3	1.5-2
Hardstem bulrush	A, W	FS	3-9	1-3
Dark green bulrush	W	FS	2-5	2-3
Woolgrass	W, UM	FS	3-5	2-3
River bulrush	A, W	FS	4-8	1-3
Three-squared bulrush	A, W	FS	2-4	2-4
Softstem bulrush	A, W	FS	3-9	1-3
Indian grass	UM	FS	2-5	2-3
Prairie cordgrass	W, UM	FS	3-6	2-3
Prairie dropseed	UM, UD	FS	2-4	1.5-2
Porcupine grass	UD	FS	3-4	1-2

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Common Name	Habitat*	Exposure**	Height (feet)	Spacing (feet)	Flower Color	Bloom Time
Box elder	UM	FS, PS	40-60	20		
Red maple	W, UM	FS, PS, FSH	40-60	20		
Silver maple	W, UM	FS, PS	75-100	40		
Sugar maple	UM	PS, FSH	75-85	40		
Leadplant	UM, UD	FS	2-4	2-5	Blue-purple	June-July
False indigo	W, UM	FS, PS, FSH	6-12	2-5	Blue-purple	May-June
Paper birch	UM, UD	FS, PS	40-60	20-40		
American hornbeam (Musclewood)	UM, UD	FS, PS, FSH	20-30	10-15		
Bitternut hickory	UM	PS	40-80	20-40		
New Jersey tea	UD	FS, PS	2-3	2-8	White	June-July
Hackberry	UM	FS, PS	60-80	20-40		
Pagoda dogwood	UM, UD	FS, PS, FSH	10-20	10-20	White	May-July
Silky dogwood	W, UM	FS, PS	5-12	8-15	White	May-July
Gray dogwood	UM, UD	FS, PS	5-15	8-15	White	May-July
Red-osier dogwood	W, UM, UD	FS, PS, FSH	5-12	8-15	White	May-July
American hazel	UM, UD	FS, PS, FSH	3-10	4-8		
Fireberry hawthorn	UM	FS, PS	10-20	10-20	White	May
Downy hawthorn	UM, UD	FS	10-20	20	White	May
White hawthorn	UM, UD	FS, PS	10-20	20	White	May
Leatherwood	UM	PS, FSH	3-6	5-10	Pale yellow	May
Wahoo	UM	PS, FSH	5-15	5-10		
Black ash	W, UM	FS, PS	50-75	20-60		
Green ash	UM, UD	FS, PS	50-75	20-80		
Winterberry	W, UM	PS, FSH	5-12	8		
Black walnut	UM	FS	40-70	20-40		
Bush juniper	UD	FS	1.5-5	8-20		
Red cedar	UD	FS	20-60	10-40		
Ironwood	UM, UD	PS, FSH	20-40	10-20		
Cottonwood	W, UM, UD	FS, PS	80-90	40-60		
Big-tooth aspen	UM, UD	FS, PS	60-90	20-40		
Quaking aspen	UM, UD	FS, PS	50-70	15-40		
Wild plum	UM, UD	FS	10-15	6-10	White	April-May
Pin cherry	UM, UD	FS, PS	10-40	10-20	White	May
Black cherry	UM, UD	FS, PS, FSH	50-75	20-40	White	May-June

Chokecherry	UM, UD	FS, PS, FSH	8-15	5-10	White	May
Northern pin oak	UM, UD	FS, PS	50-70	20-50		
Bur oak	UM, UD	FS	50-80	30-60		
Red oak	UM, UD	FS, PS	60-80	30-60		
Smooth sumac	UM, UD	FS, PS	9-20	8	Whitish	June-July
Staghorn sumac	UM	FS, PS	9-20	8	Whitish	June-July
Wild black currant	UM	PS, FSH	3-4	3-5	Pale yellow	May-June
Prairie rose	UD	FS	1-3	3-6	Pink	June-July
Smooth wild rose	UM, UD	FS	1-6	3-8	Pink	June-July
Common blackberry	UM, UD	FS, PS	2-7	4-8	White	May-June
Black raspberry	UM, UD	FS, PS	3-6	4-8	White	May-June
Red raspberry	UM, UD	FS, PS	3-6	4-8	White	May-June
Peach-leaved willow	W, UM	FS, PS	30-50	20-50		
Bebb's willow	W, UM	FS	5-15	5-10		
Pussy willow	W	FS	5-15	5-10		
Heart-leaved willow	W	FS	5-15	5-10		
Sandbar willow	W	FS	5-15	5-10		
Prairie willow	W, UM, UD	FS, PS	3-9	3-6		
Black willow	W	FS, PS	30-50	20-30		
Autumn willow	W	FS	5-15	5-10		
Common elderberry	W, UM	FS, PS, FSH	3-12	8	White	July-August
Red-berried elder	UM	PS, FSH	3-10	8	White	May-June
Meadowsweet	W	FS, PS	3-5	3-6	White	June-August
Wolfberry (Western snowberry)	UM, UD	FS	2-4	3-5	Whitish-pink	June-August
Basswood	UM, UD	FS, PS, FSH	60-80	20-40		
Nannyberry	UM	FS, PS	10-20	10	White	May-June
Downy arrowwood	UM, UD	FS, PS, FSH	4-8	3-6	White	May-June
High-bush cranberry	W, UM	FS, PS	5-15	5-10	White	June

*Habitat descriptions:

A = Aquatic

W = Transitional

UM = Upland-Moist

UD = Upland-Dry

**Exposure descriptions:

FS = Full Sun

PS = Partial Sun

FSH = Full Shade

Common Name	Habitat*	Exposure**	Height (feet)	Spacing (feet)
American bittersweet	UM, UD	FS, PS	5-20	4-20
Virginia creeper	UM, UD	FS, PS, FSH	2-30	2-8
Wild grape	UM, UD	FS, PS, FSH	2-30	2-8

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