

From the Desk of Tom Kimmel

I am pleased to announce that we have all survived the year and I hope that you, our loyal customers, have, likewise survived. At times I thought there was more danger from political altercations than there was from a virus infestation or two. Strangely, it was a very good year for the nursery with next year—2021 appearing to be equally as good, and equally as strangely.

As for reassurances, our plant inventory is chock full—production continued apace all last summer, and will continue all winter until there is no more room in the poly houses. Do not conclude that any plant shortage means that this will continue. We are pretty sharp over here in the Heartland of America and are cognizant of lost sales and then do everything we can to correct that problem.

The alert student of plant catalogs will note that we have dropped most of the perennial plants with fewer than 500 gallons sold per year, and we have dropped the problematical groundcovers—Aegopodium, Houttuynia, Hypericum, Lamiastrum, and Waldsteinia. As soon as we clean out our stock bed, Convallaria will be dropped. The cynical may conclude that our conscience is starting to show the closer we are coming to meeting our Maker.

Meanwhile we are adding new plants all of the time—Chicagoland Grows and Intrinsic Perennials patented varieties while buying in patented plugs and making Proven Winners® varieties for our garden center customers. Which reminds me that our plant quality and plant care are improving sufficiently that we now welcome the retail trade to our existing landscaper trade.

Given our druthers we prefer large custom grow landscape jobs and any perennial liner sales. In the meantime we are doing everything that we can to saturate the market for Pachysandra 'Green Carpet' and Vinca 'Bowles'.

On a personal note, I have retired for the second time, devoting my energies now to writing books on modern steam power and how it is going to save the world. I maintain an intellectual interest in the nursery, planning for its financial health and its continuity of management. Mostly I cruise around once a week or so telling everyone to work harder. That is what got us where we are today, I am going to continue the program. Thanks to our customers for working hard also.



You Kine

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Front Cover: Calamintha nepeta ssp. nepeta, 2021 PPA Perennial Plant of the Year®

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Above: Shawnee, Main Farm

Aerial Photos of Twixwood Nursery

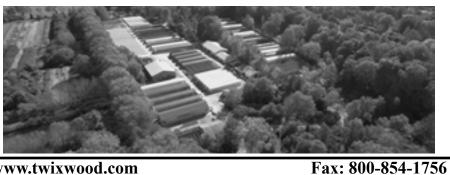




Above: Shawnee South

Left: T-North Farm

Below: Hillcrest, Original Farm



www.twixwood.com

RECOMMENDED PLANT SPACING:

Spacing	Common plant sizes	Square feet per
	-	<u>plant</u>
6" centers	32ct.	.25 sq. ft.
8" centers	32ct.	.44 sq. ft.
10" centers	32ct., 24ct., 18ct.	.69 sq. ft.
12" centers	32ct., 24ct., 18ct., 10ct.	1.00 sq. ft.
15" centers	18 ct., 10ct.	1.56 sq. ft.
18" centers	#1 container	2.25 sq. ft.
24" centers	#1 container	4.00 sq. ft.

Generally, groundcover plants are spaced 6-12" apart. The distance between the plants is based on the size of the plants used, the expected growth rate, and the budget that the installer has to work with.

sq. ft. of job \div sq. ft. per plant = number of plants required

Example: 1,000 square feet using 32ct flats planted on 6" centers 1,000 sq. ft. \div .25 = 4,000 plants \div 32 = 125 flats

Ajuga Zone 3/4-10

Bugleweed, Dwarf Bugleweed

 $\circ \circ$

Forms a dense mat that covers a large area quickly. The flower spikes contain numerous bugle-shaped flowers that are bluish-purple. Needs at least moderate moisture.

	Foliage			
'Chocolate Chip'	chocolate	2-4"	Z 4	May-Jun
reptans 'Black Scallop' (PP# 15,8	dk maroon purple	4-6"	Z 4	Apr-May
r. 'Bronze Beauty'	bronze	4-6"	Z3	Apr-May
r. 'Burgundy Glow'	burgundy/white/green	4-6"	Z3	Apr-May
r. 'Catlin's Giant'	bronze	10"	Z3	May
22-4	92 (26 24/9-4)			

 32ct
 .82 (26.24/flat)

 32ct Plug
 .82 (26.24/flat)

 24ct Standard
 1.12 (26.88/flat)

 10ct
 1.85 (18.50/flat)

 #1 container
 4.85

All varieties are not maintained in all sizes, but can be grown upon request.

Anemone - See Perennials Section

See the <u>Perennials Section</u> for our selection of *Anemones*, especially the native varieties *canadensis* and *sylvestris*, which make excellent groundcovers.

Arctostaphylos	Zone 2-6

Bearberry, Kinnikinnick



Loves dry, sunny, and acidic hillsides. An evergreen that grows as a groundcover or low-growing shrub. Spring flowers mature to red berries. Illini BeautyTM reportedly grows better in less acidic soil.

uva-ursi 'Massachusetts'	wh	ite w/ pink	6-12"	Apr-May
Illini Beauty TM (uva-ursi 'Morton'	, PPAF) wh	ite w/ pink	6-12"	May-Jun
32ct	1.53 (48.96/flat)			
#1 container	7.05	Production for be	oth cultivars is lir	nited for 2021.

Asarum Zone 3-8

Canadian Wild Ginger



Canadian wild ginger makes a gorgeous woodland groundcover and prefers an acidic, moisture-retentive soil. The large, herbaceous, gray-green leaves are somewhat fuzzy.

canadense	brownish red	6-12"	Apr
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#1 container...... 7.05

Carex - See Grasses Section

Carexes, commonly called Sedges, are becoming increasingly popular as groundcovers and lawn alternatives. Twixwood offers many of these grass-like plants. See our <u>Grasses Section</u> for the complete list.

Ceratostigma	Zone 5-9
--------------	----------

Plumbago, Leadwort



Intense clusters of peacock-blue flowers cover this vigorous, mat-forming groundcover over a long period of time. In fall, foliage turns deep mahogany while the flowers keep opening for a beautiful contrast. Best color is in full sun.

plumbaginoides	blue	8"	Jul-Sep
32ct	.87 (27.84/flat)		
32ct Plug	.87 (27.84/flat)		
10ct	2.10 (21.00/flat)		
#1 container	5.40		

Convallaria Zone 3-8

Lily-of-the-Valley



Intoxicatingly fragrant, bell-shaped flowers that are excellent as cut flowers. Lily-of-the-Valley is hardy, trouble-free, and long-lived. Makes a superb groundcover for shady, moist areas.

majalis	white	6-8"	May-Jun
32ct			
10ct	2.10 (21.00/flat)		
#1 container	5.40		

Dianthus - See Perennials Section

Many *Dianthus* species make excellent groundcovers especially in rock gardens and miniature settings. Check out our <u>Perennials Section</u> for a complete list.

Euonymus	Zone 4-10

Wintercreeper, Purple Leaf Wintercreeper



Fax: 800-854-1756

Euonymus is a hardy evergreen spreader that is great for erosion control. Foliage turns purple in the fall. <u>Not available for sale to Indiana.</u>

fortunei 'Coloratus'	dark green foliage	6-18"	evergreen
32ct	.76 (24.32/flat)		
32ct Peat	.76 (24.32/flat)		
32ct Plug	.76 (24.32/flat)		
24ct Standard	1.02 (24.48/flat)		
10ct	1.75 (17.50/flat)		
#1 container	4.60		

Galium Zone 4-8

Sweet Woodruff, Bedstraw



One of the best herbaceous groundcovers for a partially shaded, moist area. Formerly classified as Asperula oderata. Vigorous and hardy, the myriad of small white flowers appear in May and June over lovely green foliage. Prefers a light, acidic soil.

odoratum	white	6"	May-Jun
32ct	.87 (27.84/flat) 1.25 (30.00/flat) 2.10 (21.00/flat)		

Geum fragarioides - See Waldsteinia

Hedera Zone 5-9

Hardy English Ivy



An easy-to-grow, trailing, evergreen groundcover for shade to part shade locations. Also makes an excellent vining climber. Does not like heavy, wet soils.

helix 'Thorndale'	deep green foliage	6"	evergreen
32ct	.82 (26.24/flat)		
32ct Plug	.82 (26.24/flat)		
24ct Standard	1.12 (26.88/flat)		
10ct	1.85 (18.50/flat)		
#1 container	4.85		

Isotoma	Zone 5-10
Blue Star Creener	

A very popular miniature groundcover with small green leaves that become completely covered in star-shaped blue flowers. Can handle heavy foot traffic.

fluviatilis	blue	2-3"	Jun-Aug
72ct	.65 (46.80/flat)		
32ct	.87 (27.84/flat)		
32ct Plug	.87 (27.84/flat)		
24ct Standard	1.25 (30.00/flat)		
10ct	2.10 (21.00/flat)		

Leptinella			Z	one 6-10
Black Brass Buttons				00
_	ttive to New Zealand with soft fer e insignificant. Can handle mode	_		ch is dark
'Platt's Black'	yellow	3"		Jun-Jul
10ct	2.10 (21.00/flat)			
Liriope			Zor	ne 4/6-10
Lily Turf				00
Prefers some shade, but is in muscari species have a mou	owers above foliage. Useful in b full-sun tolerant. 'Big Blue' and Inding habit, while the <i>spicata</i> s Is hardy into northern Illinois an	l the other n pecies are m	nemb ore s	ers of the preading.
spicata (spreading)				
spicata	lilac	9-18"	Z 4	Jul-Aug
32ct	87 (27.84/flat) 2.10 (21.00/flat)			
muscari (mounding)				
m. 'Big Blue'	lavender	12-18"		Jul-Aug
m. 'Silvery Sunproof'	mauve	10-15"	Z6	Jul-Aug
32ct	2.50 (25.00/flat)			
Lysimachia			7	Zone 3-8
Moneywort, Creeping Jenny				00
A mat-forming, creeping, do foliage. Does best with at le	eciduous groundcover for moist east part sun.	to wet areas	. Brig	ght yellow
nummuleria 'Aurea'	yellow	2"		Jun-Aug
72ct	,			

 Mazus Zone 4-9

Mazus



A miniature groundcover with a bright green, fast spreading mat that becomes covered in blooms. Can handle moderate foot traffic.

repens 'Alba' r. 'Purple'	white purple	2" 2"	May May
i. Turpic	purple	2	iviay
72ct			
32ct			
32ct Plug			
24ct Standard	1.25 (30.00/flat)		
10ct	2.10 (21.00/flat)		

Pachysandra Zone 5-9

Japanese Spurge



A very popular, low maintenance, and hardy evergreen groundcover for shady areas. Does not like heavy, wet soils. 'Green Carpet' is an improved cultivar of the straight *terminalis* species. It is hardier, more compact, more uniform in height, and glossier green in color.

terminalis 'Green Carpet'	white	8"	May
32ct	.76 (24.32/flat)		
32ct Peat	.76 (24.32/flat)		
32ct Plug	.76 (24.32/flat)		
24ct Standard	1.02 (24.48/flat)		
10ct	1.75 (17.50/flat)		
#1 container	4.60		

Please see our Information Section towards the end of the catalog regarding Boxwood Blight and its relation to Pachysandra. Twixwood may not accept refused/returned Pachysandra.

Phlox	Zone 3-9

Creeping Phlox



Traditional and indispensable groundcover for use in virtually any landscape situation. Creeping Phlox likes a well-drained, neutral soil.

subulata 'Amazing Grace' s. 'Blue Emerald' s. 'Drummons Pink' s. 'Purple Beauty'	white w/maroon eye blue pink/red/purple lilac	4-6" 4-6" 4-6"	Apr-May Apr-May Apr-May Apr-May
32ct	/flat)	4-0	7 tpr-iviay
s. 'Perfectly Puzzling' (PP# 31,487) 32ct	white, pink, dark viole	t 4-6"	Apr-May

#1 container...... 6.00

For Tall, Garden Phlox and the Intermediate, Chicagoland Grows® species, see the Perennials section.

Zone 4-9 Sagina

Moss, Irish Moss, Scotch Moss



A miniature groundcover with tiny white flowers. The straight species is green and often called Irish Moss. 'Aurea' is yellow and often called Scotch Moss. Can handle heavy foot traffic.

subulata s. 'Aurea'	white white	2" 2"	May May
72ct	.65 (46.80/flat)		
50ct Seed	.75 (37.50/flat)		
32ct	.87 (27.84/flat)		

Sedum	Native	Zone 3/4/5-9

Stonecrop



Succulent-type perennials that prefer sunny, hot areas in a loose soil with good drainage. *Sedum* are especially susceptible to variations in color, habit, height, etc. depending on growing conditions, light, temperature, etc. They may change color frequently throughout the season. For example, 'Angelina' can be pale yellow to green if it is in shade or overfertilized. In the heat of the summer it will be bright golden yellow. While in the cold or if stressed with too little water it will be dark orange with red highlights.

The Sedum genus is so large it is being subclassified or reclassified. As these come into general use, Twixwood will note them as alternate names. Other genus or subgenus names you will see include Hylotelephium, Petrosedum, Phedimus, Rhodiola, and Sinocrassula.

Creeping Groundcover Varieties

Creeping Groundcover varieties				
	Foliage Color Flower Colo	or		
acre 'Aureum'	green yellow tips yellow	1-3"	Z4	Jun-Jul
album 'Coral Carpet'	coral-green-red white	3-6"	Z4	May-Jun
a. 'Nerds'	green and red white	3-4"	Z4	Jun-Aug
cauticola 'Lidakense'	blue green pink	3-6"	Z4	July-Sep
floriferum 'Bailey's Gold'	green yellow	3-6"	Z4	Jun-Aug
(aka 'Weihenstephaner Gold' or S. kamtschati	cum var. floriferum, etc.)			
kamtschaticum	green yellow	6-8"	Z4	May-Jun
k. var. ellacombianum	green yellow	6-8"	Z4	May-Jun
rupestre 'Angelina' {Petrosedum}	yellow conifer like yellow	6-9"	Z 4	Jun-Jul
(aka reflexum 'A.)				
r. 'Blue Spruce'	blue conifer like yellow	6-9"	Z4	Jun-Jul
(aka reflexum 'B.) {Petrosedum}				
spurium 'Dragon's Blood'	green w/purple to red pink	3-6"	Z3	Aug-Sep
('Schorbuser Blut') {Phedimus}				
s. 'Elizabeth' (aka 'Red Carpet') {Phedimus}	green turn burgundy red	3-6"	Z3	May-Jul
s. 'John Creech' {Phedimus}	green pink	1-3"	Z3	Aug-Sep
s. 'Tricolor' {Phedimus}	green w/ white marg. pink	3-6"	Z3	May-Jul
s. 'Voodoo' {Phedimus}	dark maroon red rose red	3-6"	Z 3	Aug-Sep
ternatum (Native)	green white	3-6"	Z 4	Apr-May
tetractinum 'Coral Reef'	green turn red pale pink	1-3"	Z 5	Jul-Aug
72ct	40/flat)			
32ct				
24ct Standard 1.02 (24				
10ct	.50/Hat)			
#1 container 4.60				

All varieties are not maintained in all sizes, but can be grown in these and other sizes upon request.

Continued on Next Page

Sedum (continued)

Upright & Specimen Varieties				
'Carl' {Hylotelephium}	gray-grn magenta pink	16-18"	Z3	Aug-Sep
'Matrona' {Hylotelephium}	gray-grn, red stem pink	24-30"	Z3	Aug-Oct
spectabile 'Autumn Fire' {Hylotelephium}		12-24"		Aug-Oct
s. 'Autumn Joy'	gray-green pink-red	18-24"	Z3	Aug-Oct
('Herbstfreude') {Hylotelephium}	gray green print rea	10 2.		11008
s. 'Neon' {Hylotelephium}	gray-green magenta	12-24"	Z3	Aug-Oct
		12 2 .		riug out
38ct	7.62/flat)			
#1 container 5.40				
Autumn Charm TM	blue grn w/wht edge pnk	14-18"	Z3	Aug-Sep
('Lajos' PP# 14,421) {Hylotelephium}				
Autumn Delight™	chartrse w/blue-grn pnk	18-24"	Z3	Aug-Sep
('Beka' PP# 18,398) {Hylotelephium}				
ellacombianum 'Cutting Edge'	grn w/yellow edge yellow	v 6-8"	Z4	Jul-Aug
(PP# 28,926) {Phedimus}				
'Joyful' (PPAF)	green pink		Z4	Jul-Oct
'Lime Joy' (PP# 32,135)	gray-green red	15"	Z4	Sep
'Peace & Joy' (PP# 30,858)	green magenta	12-14"	Z4	Sep
'Pillow Talk' (PP# 28,528) {Hylotelephium}	gray-grn, red stem pink	18-24"	Z3	Sep
'Plum Perfection'*	grn to gray to plum white	6-8"	Z3	Jul-Sep
(PP# 22,690) {Hylotelephium}				_
'Rock Star' (PP# 29,036)	gray-green pink	9-12"	Z 4	Aug-Sep
rupestre 'Making Progress' (PPAF)	dk grn/red yellow	3-6"	Z 4	Jun-Aug
sexangulare 'Yellowstone' (PPAF)	chartreuse to gold yellow	3-6"	Z 4	Jun-Aug
'Sunset Boulevard' (PPAF)	lime-green raspberry	18-24"	Z 4	Aug-Sep
Sunsparkler® Series				
'Dazzleberry'	hlue anord nearly aminds	6-9"	72	Aug Com
	blue-gray raspberry pink	0-9	L3	Aug-Sep
(PP# 22,457) {Hylotelephium} x Sedoro 'Blue Elf'	ataal blaa dank mink	3-6"	72	Aug Com
	steel blue dark pink			Aug-Sep
(PP# 27,113) {Hylotelephium}	Blue Elf is an interspecies cross (orostachys	x sedu	m)
72ct				
38ct 1.20 (45				
10ct	5.00/flat)			
#1 container 6.00				

All varieties are not maintained in all sizes, but can be grown in these and other sizes upon request.

Continued on Next Page with Field Stock

^{*}In production. May be limited or late availability in 2021.

Sedum (continued) - Field Stock for Custom Grow

The *sedum* on these pages are not maintined in containers, however they are maintained in the field and can be custom grown upon request.

	Foliage Color Flower Col	or		
acre	green yellow	1-3"	Z4	Jun-Jul
a. 'Oktoberfest'	green creamy white	1-3"	Z 4	Jun-Aug
aizoon {Phedimus}	green, red yellow	8-16"	Z 5	Jun-Jul
a. 'Euphorbioides" (Phedimus)	grn, red orange-yellow	2-16"	Z 5	Jun-Aug
album	green, red when cold white	e 3-6"	Z4	May-Jun
a. 'Green Ice'	evergreen white	1-3"	Z4	Jun-Jul
a. 'Murale' (a. subsp. teretifolum 'M.)	green white	1-3"	Z 4	May-Jun
a. 'Purpureum'	green white	3-6"	Z4	May-Jun
'Bertram Anderson' {Hylotelephium}	burgundy black pink	6"	Z3	Jun-Jul
cauticola	blue green pink	3-6"	Z4	July-Sep
Sedum dasyphyllum var.	silver gray white	2-4"	Z 5	May-Jun
macrophyllum (aka d. 'Major')				
divergens	green yellow	4-6"	Z4	Jun-Jul
hybridum 'Czar's Gold'	evergreen w/red stems gold	d 4-6"	Z4	May-Jun
h. 'Immergrunchen'	evergreen yellow	3-6"	Z3	Jun-Jul
kamtschaticum 'Variegatum'	green w/ cream yellow	6-10"	Z4	May-Jun
middendorfianum var. diffusum	green yellow	3-6"	Z 4	June
(aka kamtschaticum var. middendorfianum)				
m. 'Striatum' {Phedimus}	drk grn w/ red/choco yellov		Z4	
montanum ssp. orientale {Petrosedum}	gray-green conifer yellow		Z4	Jun-Jul
'Rosy Glow'	blue green ruby	6-9"	Z3	Aug-Sep
(aka 'Ruby Glow') {Hylotelephium}				
rupestre (aka reflexum) {Petrosedum}	reddish brown yellow	4-6"	Z4	Jun-Jul
r. 'Green Spruce' (aka reflexum 'G.)	green conifer like yellow	6-9"	Z4	Jun-Jul
{Petrosedum}				
sexangulare	green 6 spirals yellow	3-6"	Z3	Jun-Aug
s. 'Golddigger' (PPAF)	golden yellow	4-6"	Z4	Jun-Aug
s. 'Utah'	dark green yellow	4-6"	Z4	Jun-Aug
s. subsp. elatum	greener yellow	3-6"	Z4	Jun-Aug
sichotense	blue-green, red yellow	3-5"	Z4	Jun-Sep
sieboldii {Hylotelephium}	blue grn w/red edge pink	6-12"	Z3	Sep-Oct
spurium 'Album Superbum'	green white	3-6"	Z3	May-Jul
(aka 'Green Mantle' or 'White Form') {Phedia	mus}			
s. 'Bronze Carpet' {Phedimus}	bronze to green white	3-6"	Z3	May-Jul
s. 'Coccineum' (aka 'Splendens') {Phedimus}		3-6"	Z4	May-Jul
s. 'Fuldaglut' {Phedimus}	maroon rose red	1-3"	Z4	Aug-Sep
s. 'Leningrad White' {Phedimus}	green white	1-3"	Z3	Aug-Sep
s. 'Raspberry Red' {Phedimus}	dk grn to bronze soft pink	3-6"	Z3	May-Jul
s. 'Red Rock' {Phedimus}	red deep pink	3-6"	Z3	Jul-Aug
s. 'Roseum' {Phedimus}	green to red pink-purple	3-6"	Z4	Jul-Aug
s. 'Royal Pink' {Phedimus}	green turns bronze pink	3-6"	Z3	Aug-Sep
s. 'Summer Glory' {Phedimus}	green turns reddish pink	3-6"	Z3	Aug-Sep
		Conti	nued o	n Next Page

Sedum (continued) - Field Stock	for Custom Grow			
stefco	blue-grn w/red stems whit	te 1-3"	Z4	Aug-Sep
'Sunset Cloud' {Hylotelephium}	purple, starts green red	6-12"	Z3	Aug-Sep
takesimense 'Golden Carpet' {Phedimus}	green yellow	6-8"	Z 4	May-Jun
ternatum 'Larinem Park'	green white	3-6"	Z 4	Apr-May
'Thundercloud' (PP# 21,833)	pointed gray-grn white	6-12"	Z3	Jul-Sep
{Hylotelephium}				
tschernokolevii	pentaploid var of sexangula	re 3-6"	Z4	Jun-Aug
'Vera Jameson' {Hylotelephium}	blue grn magenta/scarlet	6-12"	Z3	Aug-Sep

Thymus	Zone 4/5-9
Creening Thyme	

A very tough, low-growing mat that is ideal for use between flagstones. Carpeted with brightly colored flowers in summer over aromatic green foliage. Needs full sun and a well-drained soil. The *praecox* species is hardy to at least zone 4.

praecox 'Coccineum' pseudolanuginosus (Woolly Thyme) serpyllum 'Elfin' s. 'Pink Chintz'	red mauve lavender-pink pink	1-2" 2-4"	Z5 Z5	May-Jul May-Jul May-Jul May-Jul
32ct	34/flat)			

All varieties are not maintained in all sizes, but can be grown upon request.

Veronica - See Perennial Section for More Varieties	Zone 4-8
Speedwell	$\overline{}$

'Blue Yonder' has a light, mat forming habit, making it an excellent ground cover. Stems are almost black in color. 'Waterperry Blue' is also spreading, but with a looser habit.

'Blue Yonder' (PP# 27,284) 'Waterperry Blue'	violet-blue lavender, blue	4-6" 3-6"	May-Jun May-Jun
72ct) (64.80/flat)		
38ct1.20	(45.60/flat)		
32ct1.31	(41.92/flat)		
24ct Standard 1.80	(43.20/flat)		
10ct 2.50	(25.00/flat)		

#1 container...... 6.00

All varieties are not maintained in all sizes, but can be grown in these and other sizes upon request.

^{&#}x27;Tidal Pool' (PP# 23,341) is maintained as field stock and can be grown upon request.

Periwinkle, Myrtle



An evergreen groundcover that is hard to beat for dry, shady areas under trees. Prefers acidic soil and part shade. 'Bowles' is more clumping in habit and has more profuse flowering than the species. 'Dart's Blue' is similar to 'Bowles', but seems to be more disease resistant. 'Ralph Shugert' has variegated foliage.

minor 'Bowles'	blue	6-8"	May-Jun
m. 'Dart's Blue'	blue	6-8"	May-Jun
m. 'Ralph Shugert'	blue	6-8"	May-Jun
32ct	.82 (26.24/flat)		
32ct Peat	.82 (26.24/flat)		
32ct Plug	.82 (26.24/flat)		
24ct Standard	1.12 (26.88/flat)		
10ct	1.85 (18.50/flat)		

#1 container...... 4.85

#1 container..... 5.40

All varieties are not maintained in all sizes, but can be grown upon request.

Wal	dsteinia (Geum)	Native	Zone 4-7
	C ₁ 1		

Barren Strawberry



A dependable groundcover. Tolerates a wide range of soils and sun. Does best in moist soil with part shade. Buttercup-yellow flowers in late spring. *Fragarioides* is native to North America, sometimes called *Geum fragarioides*.

fragarioides	yellow	4-8"	May-Jun
32ct	37 (27.84/flat)		
10ct2.1	10 (21.00/flat)		

Grasses and Grass-like Plants

RECOMMENDED PLANT SPACING:

Spacing	Common plant sizes	Square feet per
		<u>plant</u>
6" centers	32ct.	.25 sq. ft.
8" centers	32ct.	.44 sq. ft.
10" centers	32ct., 24ct., 18ct.	.69 sq. ft.
12" centers	32ct., 24ct., 18ct., 10ct.	1.00 sq. ft.
15" centers	18 ct., 10ct.	1.56 sq. ft.
18" centers	#1, #2, #3 container	2.25 sq. ft.
24" centers	#1, #2, #3 container	4.00 sq. ft.

Generally grasses are spaced 12-24" apart, sometimes farther for the larger varieties. The distance between the plants is based on the size of the plants used, the expected growth rate, and the budget that the installer has to work with.

sq. ft. of job \div sq. ft. per plant = number of plants required

Example: 1,000 square feet using 32ct flats planted on 6" centers 1,000 sq. ft. \div .25 = 4,000 plants \div 32 = 125 flats

Ammophila Native Zone 5-10

American Beach Grass, Dune Grass, Marram Grass

A leafy, spreading grass native to North America's sandy beaches and dunes. Commonly found around Lake Michigan. Wind and salt tolerant, but cannot withstand regular foot traffic.

Andropogon Zone 4-10

Big Bluestem

The species is a native with lush green foliage that turns a rich orange and copper-red in the fall. 'Black Hawks', bred by Brent Horvath of Intrinsic Perennial Gardens in Chicago, Illinois, features dark green foliage with purple highlights that turn almost black.

#1 container..... 7.05

Other sizes can be grown upon request.

'Dancing Wind' (PP# 26,892): Twixwood has started production of this cultivar. May have limited or late availability in 2021.



Bouteloua Native Zone 3/4-10

Grama Grass, Side Oats Grama, Blue Grama, Mosquito Grass

A warm season grass that is very drought tolerant. The Side Oats Grama common name refers to the *curtipendula* species, which has oat-like seed pods that hang along one side of the stem. The *curtipendula* species is less hardy (only zone 4) and has green foliage that turns golden with hints of orange and red in fall. Flowers are purplish spikelets that turn straw color.

The gracilis species (commonly called Blue Grama or Mosquito grass) that Twixwood grows, originally came from the Bad River area of South Dakota as a recognized genotype. B. gracilis leaves are more blue in color and the seeds hang down from horizontal seed spikes at the tip of the stem, looking like hovering insects. 'Blonde Ambition' is a new cultivar with striking golden-blonde seed heads which make a beautiful show, especially in mass plantings. Well-drained soil is especially critical for winter survival in the North.

curtipendula gracilis (Bad River Genotype)	green purple bluish purple			July-Aug June-Aug
18ct	/flat)			
g. 'Blonde Ambition' (PP # 22,048)* *2021 Availability will be limited	bluish golden	12-30"	Z6	June-Aug

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

^{&#}x27;Honeycomb' PPAF: Twixwood has started production of this cultivar. May have limited or late availability in 2021.

Calamagrostis	Zone 4-9
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Feather Reed Grass, Korean Reed Grass

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The brachytricha species (Korean Reed Grass) is a slow spreading grass with pinkish plumes.

The *x acutiflora* species (hardy to zone 4) are commonly called Feather Reed Grass. 'Karl Foerster' was the 2001 Perennial Plant of the Year and is a staple in many landscapes.

x acutiflora 'Karl Foerster'	green pinkish	36-48 36-60"	May-Nov
50ct Deep	.95 (47.50/flat)		•
18ct	2.10 (37.80/flat)		
#1 containon	6.00		

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

1. ... - 1. - 4...! - 1. - -

Carex Native Zone 3/4/5-8

Sedge

Sedges are becoming increasingly popular as groundcovers, or lawn alternatives, as well as accent plants. Twixwood continues to add varieties as we find ones that perform well and for which there is a demand. There is a wide variety of shade/sunlight tolerance, hardiness zones, colors, and growth habits. The cultivar descriptions are on subsequent pages.

Varieties are separated by price and continue to subsequent pages.

C. albicans (White-tinged or Oak Sedge) is native to most of America east of the Rockies and usually found in dry, upland forest settings. Narrow, bright green blades form 15-20" tufts.

C. amphibola (Creek Sedge or Eastern Narrowleaf Sedge) is native to the deciduous forests of much of the Eastern US into the South and Southern prairie states. It is often found on the slopes rising from streams. Fountain shaped clumps of narrow foliage. Does have a tendency to reseed.

C. appalachica (Appalachian Sedge) is a native found predominently in dry deciduous forests & clearings.

C. bicknellii (Prairie Sedge) so-called because it grows out in the open, full sun and can do well in drier situations than most other sedges. It is also one of the taller native sedges.

C. blanda (Common Wood Sedge) is a very versatile native able to handle both sun and shade as well as most soil types. Spreads by rhizomes so can be an aggressive Carex to fill in empty spaces.

C. brevior (Plains Oval Sedge) is a versatile native for sun to part shade that can take wet to dry soils. Small, green oval spikelets turn into brown, prickly seed heads. Formerly known as Carex festucacea var. brevior and also known by the common name of Shortbeak Sedge. Very similar to C. molesta.

C. eburnea (Bristle-Leaved, or Ivory, or Ebony Bristleleaf Sedge) likes drier, sandy soils and limestone outcroppings. Native from Newfoundland to Alaska and south into Texas and Alabama.

C. elata 'Aurea' (Bowles' Golden Sedge) is a distinct cultivar that has golden leaves with thin green margins. Will grow in 2-3" of water but won't tolerate drought. Best color is in full sun with continually moist soil.

C. emoryi (Emory's or Riverbank Sedge) is a native wetland sedge with long white seed heads that turn to brown crown-like tips over the course of blooming. It is considered endangered in New York.

C. 'Evergold' (Evergold Sedge) is a Japanese cultivar usually considered a member of the *oshimensis* species but sometimes assigned to *hachijoensis* or even *morrowii*. Narrow creamy-white to yellow cascading leaves with deep green margins. Prefers partial sun and moist soil, but will tolerate other conditions and even deer.

C. flacca (Blue or Blue-Green Sedge) is synonymous with C. glauca referring to the blue colored leaves. This native prefers moist soils, even 1-2" of standing water, but established plants can possibly even handle a bit of drought. Prefers some shade.

Carex (continued)

C. flacca 'Blue Zinger' (Blue Zinger Sedge) is a cultivar selected for its striking blue foliage. Grows slightly taller than the species, but otherwise similar.

C. 'Ice Dance' (Ice Dance Sedge) is a common variegated cultivar with dark green leaves edged with a very distinct, bright white stripe down each side. Sometimes considered a *morrowii* species. Moderate spreader that prefers moist soil and has best color in shade. May benefit from a winter mulch in northern climates.

C. jamesii (James' Sedge) is a native sedge with bulbous seed heads and a stem appearing between spiked leaves. Considered threatened in Minnesota and New York, and endangered in New Jersey.

C. lacustris (Lake Sedge) is native to most of the Northern US. Found in areas near water including, but not limited to, lake shores & wetlands.

C. muskingumensis (Palm Sedge) a native found in areas of temporary standing water.

C. pellita (Woolly or Broad-leaved Woolly Sedge) is native to most of the US. Also known as C. lanuginose. Prefers full to partial sun and wet to moist conditions.

C. pensylvanica (Pennsylvania Sedge) is one of the most popular sedges particularly as a shade area groundcover due to its slow spreading nature. One of the few sedges that prefers well-drained soil. A Roy Diblik favorite that he says may one day replace Pachysandra. Native to the Northeast and as far south as Mississippi and Georgia.

C. radiata (Eastern Star or Straight-Styled Wood Sedge) is native to Eastern North America from Newfoundland to Georgia. Prefers wet to moist soils in part shade. Very similar to C. rosea.

C. rosea (Rosy Sedge) is native to eastern America and into Canada. Blooms with clusters of thick spikes.

C. sprengelii (Long Beaked or Sprengel's Sedge) is a very hardy native from Alaska to Delaware to New Mexico. Prefers moist to wet soil.

C. stricta (Tussock Sedge) tolerates some sun, but prefers wet soils even growing in areas prone to seasonal flooding. Native to most of eastern North America.

C. vulpinoidea (Fox Sedge) prefers very wet soils and full sun. One of the most common native sedges. The seed heads resemble a fox's tail, but don't last long.

Continued on Next Page

Carex (continued)					
albicans	(White-tinged Sedge)	Native	15-20"	Zone 4-8	\circ
amphibola*	(Creek Sedge)	Native	12-18"	Zone 3-9	ŎŎ
appalachica	(Appalachian Sedge)	Native	6-12"	Zone 4-8	ŎŎ
blanda*	(Common Wood Sedge)	Native	24"	Zone 3-9	ÕÕ
bicknellii	(Prairie Sedge)	Native	18-36"	Zone 3-7	ŌŌ
brevior	(Plains Oval Sedge)	Native	24-48"	Zone 3-8	ŌŌ
eburnea*	(Bristle-Leaved Sedge)	Native	6-12"	Zone 2-8	
elata 'Aurea'	(Bowles' Golden Sedge)		18-30"	Zone 5-9	ŌŌ
emoryi	(Emory's Sedge)	Native	20-26"	Zone 5-9	ŌŌ
'Evergold'	(Evergold Sedge)		9-12"	Zone 5-9	Ō
flacca	(Blue Sedge)	Native	6-12"	Zone 5-9	OŌ
f. 'Blue Zinger	(Blue Zinger Sedge)		12-18"	Zone 5-9	00
'Ice Dance'	(Ice Dance Sedge)		9-12"	Zone 5-9	$\circ \bullet$
jamesii	(James' Sedge)	Native	6-8"	Zone 4-8	$\circ \bullet$
lacustris	(Lake Sedge)	Native	24-48"	Zone 3-6	00
muskingumensis	(Palm Sedge)	Native	24-36"	Zone 4-9	00
pellita	(Broad-leaved	Native	24"	Zone 4-8	00
	Woolly Sedge)				
pensylvanica	(Pennsylvania Sedge)	Native	6-12"	Zone 3-8	$\circ \bullet$
radiata	(Eastern Star or	Native	24"	Zone 4-8	0
	Straight-Styled Wood S	Sedge)			
rosea	(Rosy Sedge)	Native	12"	Zone 4-8	$\circ \bullet$
sprengelii	(Long Beaked Sedge)	Native	12-36"	Zone 3-5	00
stricta	(Tussock Sedge)	Native	12-36"	Zone 3-8	00
vulpinoidea	(Fox Sedge)	Native	12-36"	Zone 3-7	00
50ct Deep	1.40 (70.00/flat)				
	1.53 (48.96/flat)				
18ct					
#1 container					

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

^{*}C. amphibola, blanda, eburnea: Twixwood has started production of these cultivars. May have limited or late availability in 2021.

Carex (continued) - Field Stock For Custom Grow

C. hystericina (Porcupine or Bottlebrush Sedge) is a wetland sedge with fine leaves. Native to most of North America except the deep south.

C. pensylvanica 'Straw Hat' was selected by Brent Horvath of Intrinsic Perennial Gardens for its very prominent yellow flowers.

C. plantiginea (Seersucker Sedge) has very wide leaves (1") compared to most of the other sedges we grow. It is native to the northeastern US.

hystericina	(Porcupine Sedge)	Native	24-36"	Zone 3-8	
pensylvanica 'Stra	aw Hat' (PP# 29,432)		12"	Zone 4-8	00
plantiginea	(Seersucker Sedge)	Native	8-12"	Zone 4-8	00
50ct	1.85 (92.50)				
18ct	3.40 (61.20)				
#1 container	8.20				

The Carex below are not maintined in containers, however they are maintained in the field and can be custom grown upon request.

bromoides	(Brome-like Sedge)	Native	12-24"	Zone 3-8	
grayi	(Gray/Com. Bur Sedge)	Native	24-36"	Zone 5-9	00
molesta	(Brome-like Sedge) (Gray/Com. Bur Sedge) (Troublesome Sedge)	Native	24-48"	Zone 3-8	00

Chasmanthium	Native	Zone 3-8
Northern Sea Oats	River Oats Indian Wood Oats	$\overline{}$

Northern Sea Oats, River Oats, Indian Wood Oats

A Midwest native most distinguished by its flat, drooping seed heads. Grows in partial shade. Tolerates black walnut trees. Plants will reseed and may spread rapidly in optimum conditions.

latifolium	green/green-purplish	36-48" Aug-Sep
50ct Deep	.95 (47.50/flat)	
18ct	2.10 (37.80/flat)	
#1 container	6.00	
#3 container1	7.00 Other size	es can be grown upon request.

Deschampsia	Native	Zone 4-9

Tufted Hair Grass



Semi-evergreen foliage forms low, dense tussocks with flowers on 2-3' stems of varying shades of gold, silver, purple, and green. 'Goldtau' (Gold Dew) may be a bit more compact than the species. 'Pixie Fountain' is an extra dwarf cultivar introduced by Jelitto Seeds.

cespitosa	green/gold	24-36"	Jul-Sep
c. 'Goldtau'	green/gold	12-24"	Jul-Sep
c. 'Pixie Fountain'	silver grn/white	12-24"	Jul-Sep
50ct Seed	.85 (42.50/flat)		
50ct Deep	.95 (47.50/flat)		
18ct	2.10 (37.80/flat)		
#1 container	6.00		
#3 container1	7.00		

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

Eragrostis	Native	Zone 5-9
Purple Love Grass, Sand Love Grass		$\overline{\bigcirc}$

Native to most of the US. Clouds of tiny, pink seed heads over 10" mats of twisty green foliage starting in late-spring through fall. Tolerates infertile soil and drought. Plants spread by self-seeding and rooting along the ground. Seed heads detach and roll in the wind like tumbleweeds.

spectabilis	green/pink	12-24" Jul-Aug
50ct Seed	.85 (42.50/flat)	
18ct	2.10 (37.80/flat)	
#1 container	6.00	Other sizes can be grown upon request.

Festuca	Zone 4-9
Fescue, Blue Fescue, Sheen's Fescue	\sim

'Elijah Blue' is the standard and one of the best performing blue fescues. 'Cool As Ice' is a bit bluer in color and holds the blue longer with less browning out.

'Cool As Ice' (PP # 27,651)*	blue	12-18"	Jun-Jul
glauca 'Elijah Blue'	blue	9-12"	Jun-Jul
50ct Deep	1.40 (70.00/flat)		
18ct	2.60 (46.80/flat)		

^{*}May have limited or late availability in 2021.

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

Japanese Forest Grass, Hakone Grass



A slow spreading, highly ornamental grass that prefers part shade or cool, moist sites. The species is hardier and more adaptable than the named varieties. 'All Gold' has solid golden-yellow leaves. 'Aureola' is variegated with gold striped leaves and was the 2009 Perennial Plant of the Year. Cool weather adds pink highlights to the foliage.

macra m. 'All Gold'		green gold	24-36" 12-18"	Jul-Aug Jul-Aug
m. 'Aureola'		gold striped	12-18"	Jul-Aug
//1 · ·	0.25			

#1 container..... 9.25

Helictotrichon Zone 4-8

Blue Oat Grass

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Steel blue blades resemble Fescue, but much larger. 'Sapphire' is bluer, has wider leaves and is more disease resistant than the species.

Imperata Zone 5-9

Japanese Blood Grass



A slow spreading grass. Emerges green and becomes blood red by fall. The species is considered invasive and banned in many areas. 'Red Baron', also known as 'Rubra', is shorter, less aggressive, and rarely flowers so it does not self-seed. It is still restricted. Twixwood maintains licensing to sell in several states. Requirements vary, but typically the product cannot be resold or transported out of the state we sell to.

Currently available for the following states: MI, IL, IN, WI, OH, NE, CT

cylindrica 'Red Baron'	green to red	12-24" rarely
50ct Deep	1.40 (70.00/flat)	
32ct	1.53 (48.96/flat)	
18ct	2.60 (46.80/flat)	
#1 container	7.05	Other sizes can be grown upon request.

<u> Liriope - See Groundcover Section</u>

Miscanthus Zone 5-9

Chinese Silver Grass, Maiden Grass, Eulalia Grass, Japanese Silver Grass

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Miscanthus have been standard ornamental grasses for many years. Miscanthus sinensis cultivars are generally considered hardy to Zone 5.

Many varieties can heavily self-seed leading many to consider Miscanthus borderline if not invasive. For example, check out the study done by the Chicago Botanic Garden: https://www.chicagobotanic.org/sites/default/files/pdf/plantevaluation/no43_ornamental_grasses.pdf. Twixwood recommends substituting natives and nativars such as Panicum and Schizachyrium varieties whenever possible.

'Gracillimus' is the standard Maiden Grass with narrow green leaves, a silver midrib, and feathery bronze-red seed blooms that turn silver in winter.

'Little Kitten' is an extremely dwarf *Miscanthus* with narrow green leaves and silvery plumes.

'Morning Light' has narrow leaves with white variegation on the margin. Reddish flower plumes turn silvery.

s. 'Gracillimus'	grn & silver bronze	48-84"	Aug-Nov
s. 'Little Kitten'	green white	12-36"	Aug-Nov
s. 'Morning Light'	grn & white red-wht	48-60"	Aug-Nov
50ct Deep	1.40 (70.00/flat)		
18ct	2.60 (46.80/flat)		
#1 container	7.05		
#3 container	9.00		

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

Molinia	Zone 5-9
Moor Grass, Purple Moor Grass, Flaming Moor Grass	$\overline{}$

'Moorflamme' (Flaming Moor Grass) is a shorter cultivar with brown flowers that soften to yellow.

c. subsp. caerulea 'Moorflamm	e' green-yellow brown	36-48"	Sep-Oct
18ct	2.10 (37.80/flat)		

#1 container..... 6.00

Other sizes can be grown upon request.

Switch Grass



Switch Grasses are a native prairie staple. The *virgatum* species has green, 3' foliage with pinkish tinged flower panicles that rise to 6'. Foliage turns yellow in fall.

'Heavy Metal' features 3' columnar clumps of metallic blue leaves that turn yellow in fall. Pink tinged blooms extend to 5'.

'Northwind' is one of the best vertical forms of Switch Grass. Leaves are olive to bluishgreen and flowers are yellow. A Roy Diblik selection.

Ruby Ribbons has blue-green foliage that matures to purple-red. Flowers are smokypurple and reach 4'. Ruby Ribbons is the controlled cross of 'Heavy Metal' and 'Haense Herms'. Ruby Ribbons is patented and priced higher than the other cultivars.

'Shenandoah' is one of the best red switch grasses. Blue-green foliage turns red by late June. Reddish-pink flowers turn beige as they mature.

virgatum v. 'Heavy Metal' v. 'Northwind' v. 'Shenandoah'	green-yellow pink blue pink green yellow blue-red pink-beige	36-72" 48-60" 48-72" 36-48"	Jul-Nov Jul-Nov Jul-Nov Jul-Nov
50ct Deep .95 (47.50) 18ct 2.10 (37.80) #1 container 6.00 #2 container 12.00 #3 container 17.00	,		
v. Ruby Ribbons ('RR1' PP# 17,944) 50ct Deep	,	36-48"	Jul-Nov

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

The Panicum below are not maintined in containers, however they are maintained in the field and can be custom grown upon request.

'Bad Hair Day' (PP# 29,313)	blue-red purple	36-48"	Jul-Nov
v. 'Rotstrahlbusch'	grn-red pink-yellow	48-60"	Jul-Nov

^{&#}x27;Prairie Dog' (PP# 32,736): Twixwood has started production of this cultivar. May have limited or late availability in 2021.

Pennisetum Zone 5-9

Fountain Grass



Fountain grasses prefer full sun and may not bloom as much in partial shade. May not be completely hardy throughout Zone 5. A vigorous, clump forming grass with bottle-brush like seed heads. The species is tall while the cultivars are more compact and some have differing seed head colors.

'Hameln' is the standard fountain grass, shorter, more compact and consistent than the species.

'Little Bunny' and 'Piglet' are miniature versions. 'Piglet' is a strong introduction that stays especially short and compact from Brent Horvath of Intrinsic Perennial Gardens.

'Red Rocket' is also an introduction from Brent Horvath of Intrinsic Perennial Gardens featuring dark red flower spikes.

alopecuroides 'Hameln'	green/silver-brown	18-30"	Aug-Oct
a. 'Little Bunny'	green/silver	12-18"	Aug-Oct
50ct Deep .95 (18ct 2.10 (#1 container 6.00 #2 container 12.00 #3 container 17.00	7		
a. 'Piglet' (PP# 19,074)	green/white	9-18"	Aug-Oct
'Red Rocket' (PP# 28,715)	green/dark red	36"	Aug-Oct
50ct Deep	,		

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

'Yellow Ribbons' (PPAF) and 'Love and Rockets' (PPAF): Twixwood has started production of these cultivars. May have limited or late availability in 2021.

P. alopecuroides 'Red Head' is maintained as field stock and can be grown upon request.

Schizachyrium	Native	Zone 3-9

Little Bluestem

Little Bluestem grasses (formerly classified as *Andropogon scoparius*) are some of the hardiest ornamental grasses. Native to the Canadian Provinces and south through the US all the way to Arizona and Florida. Clumps of slender green leaves with blue bases feature purplish-bronze flowers. Leaves turn bronze-orange in fall.

Lodging is a technical term used to describe the tendency of some Schizachyrium to flop and lay over. This is quite natural in the species and can provide an interesting look in a prairie or mass planting but may not be what is expected in all settings. Newer cultivars are being bread to resist lodging as noted below. Lodging tends to be worse with heavy watering and high nutrient levels.

'Blue Heaven' was developed by the University of Minnesota. It is slightly taller and stays upright when most others lodge. Blue-gray foliage turns burgundy in fall.

'Carousel' is a Chicagoland Grows® introduction selected for its compact, rounded habit. Upright green stems with touches of pink. Insignificant flowers.

'Jazz' is a sport of 'The Blues' selected by Brent Horvath of Intrinsic Perennial Gardens for its shorter form. Less prone to lodge. Blue foliage turns purple in fall and features purplish flowers.

'Standing Ovation' has wider leaves that are blue with red tips. Foliage turns reddish maroon in fall and doesn't brown out. Seldom lodges.

'The Blues' has slender blue leaves with pinkish stems. Purplish flowers appear in August and foliage turns burgundy-red in fall. Lodges.

scoparium	green blue/purplish	24-48"	Aug-Nov
s. 'Jazz'	blue/purple	24"	Aug-Nov
s. 'The Blues'	blue/purple	24-48"	Aug-Nov
50ct Deep .95 (47.50) 32ct 1.31 (41.92) 18ct 2.10 (37.80) #1 container 6.00 #3 container 17.00	/flat)		
s. 'Carousel' (PP# 20,948)	green with pink	24-30"	Aug-Nov
s. 'Standing Ovation' (PP# 25,202)	blue/purple	24-48"	Aug-Nov
50ct Deep 1.40 (70.00) 18ct 2.60 (46.80) #1 container 7.05 #3 container 19.00			

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

S. s. Blue HeavenTM ('MinnBlueA' PP# 17,310) is maintained as field stock and can be grown upon request.

Sesleria Zone 5-8

Autumn Moor Grass

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A native to the moors of Southeastern Europe. Clump forming with narrow yellowgreen foliage and flower spikes that rise to 18".

autumnalis yellow green/greenish 9-12" Sep-Oct

S. 'Greenlee's Hybrid' is maintained as field stock and can be grown upon request. May have limited or late availability in 2021.

Sporobolus	Native	Zone 3-9
Prairie Dropseed, Northern Dropseed		$\overline{}$

This native prairie grass forms clumps of fine green leaves that turn golden-orange in fall. Open flower panicles rising above the foliage are most noted for their sweet fragrance. 'Tara' is a dwarf version with a more upright habit.

heterolepis green/pink 24-36" Aug-Oct h. 'Tara' green/pink 12-24" Aug-Oct

 50ct Deep
 .95 (47.50/flat)

 32ct
 1.31 (41.92/flat)

 18ct
 2.10 (37.80/flat)

RECOMMENDED PLANT SPACING:

Spacing	Common plant sizes	Square feet per
		<u>plant</u>
6" centers	32ct.	.25 sq. ft.
8" centers	32ct.	.44 sq. ft.
10" centers	32ct., 24ct., 18ct.	.69 sq. ft.
12" centers	32ct., 24ct., 18ct., 10ct.	1.00 sq. ft.
15" centers	18 ct., 10ct.	1.56 sq. ft.
18" centers	#1, #2, #3 container	2.25 sq. ft.
24" centers	#1, #2, #3 container	4.00 sq. ft.

Generally perennials are spaced 12-24" apart. The distance between the plants is based on the size of the plants used, the expected growth rate, and the budget that the installer has to work with.

sq. ft. of job \div sq. ft. per plant = number of plants required

Example: 1,000 square feet using 32ct flats planted on 6" centers 1,000 sq. ft. \div .25 = 4,000 plants \div 32 = 125 flats

Achillea **Zone 3-8**

Yarrow

Fragrant, fern-like foliage with showy flower heads. Excellent for use in dried flower arrangements. Yarrow does well in hot, dry conditions.

'Moonshine'	yellow	12-24"	Jun-Sep
'Oertel's Rose'	rose-pink to white	12-15"	
millefolium 'Paprika'	red	18-24"	Jun-Sep
38ct	.88 (33.44/flat)		

#1 container...... 4.85 Other sizes can be grown upon request.

Actaea (Cimicifuga)

Zone 3/4-8

Bugbane, Black Snakeroot



Cimicifuga racemosa has been reclassified as Actaea simplex. Loose bushy plants with sets of serrated, deeply veined leaflets. Long, dense, upward facing, bottlebrush-like spikes of fragrant flowers. All three cultivars have dark purple foliage but 'Brunette' is hardier (Zone 3), Chocoholic has pinkish flowers, and Hillside Black Beauty is taller. Due to the size of these plants we only grow them in #2 pots.

'Chocoholic' (PP# 24,821)	mauve pink	36-48"	Z4	Aug-Sep
simplex 'Brunette'	white	36-48"	Z3	Aug-Sep
s. 'Hillside Black Beauty'	white	48-72"	Z 4	Sep-Oct

#2 container......18.50

Agastache

Zone 5-9

Giant Hyssop, Anise Hyssop, Purple Giant Hyssop, Hummingbird Mint



Fragrant foliage and plentiful flowers attract butterflies right through the heat of summer. Drought and heat tolerant. Needs good drainage. May have questionable hardiness in Zone 5.

'Blue Fortune'	lavender blue	24-36"	Jul-Sep
38ct	,	Other sizes can be grown up	on request.
rugosa 'Little Adder' (PP# 26,514) #1 container 7.05	purple	15-18"	Jul-Sep

Alchemilla **Zone 3-7**

Lady's Mantle



Fax: 800-854-1756

Fuzzy green leaves trap morning dew in reflective droplets. Can self-seed and works well in mass plantings, or even as a groundcover.

mollis 'Thriller' yellow green 12-24" June 18ct...... 2.10 (37.80/flat) #1 container...... 4.85 Other sizes can be grown upon request.

Allium Native Zone 2/3/4/5-9

Ornamental or Wild Chives/Onions/Garlic, Nodding Onion

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Useful in rooftop applications for their drought tolerance while adding height and character above the typical *Sedum*. Gaining popularity in at-grade landscape applications as well.

A. cernuum (nodding onion, hardy to Zone 4), is native to North America. Also known as Nodding Onions, they are showy in the landscape.

'Millenium' (hardy at least to Zone 5) is nearly identical to 'Summer Beauty' but we have found it usually blooms a few weeks later making them excellent choices to plant together for extended bloom time. Perennial Plant of the Year for 2018

A. senescens 'Blue Eddy', a selection of A. senescens subsp. glaucum, has blue-green to gray-green whorls of foliage resembling water eddies with lavender-pink flowers. The species (A. senescens subsp. glaucum) is similar, but not as consistently blue.

'Summer Beauty' (hardy at least to Zone 5) has become the standard in *Allium* plantings due to its vigorous and reliable performance. Combines nicely with 'Millenium' (see above) due to similarity, but differing bloom times for extended color.

A. thunbergii 'Ozawa' is a fall blooming Japanese onion with purple-pink flowers.

'Windy City' (hardy at least to Zone 5) is a new introduction by Brent Horvath of Intrinsic Perennial Gardens with a deeper purple bloom.

senescens 'Blue Eddy'	lavender-pink	6-12"	Z4	Aug-Sep
s. subsp. glaucum	lilac to lavender	6-12"	Z4	Jul-Aug
'Summer Beauty'	purple	12-18"	Z5	Jun-Jul
72ct	.75 (37.50/flat) 1.85 (18.50/flat)			
cernuum	pink	14-18"	Z4	Jul-Aug
'Millenium'	purple	12-18"	Z 5	Jul-Aug
thunbergii 'Ozawa'	purple to purple pink	6-12"	Z4	Sep-Nov
10ct	3.00 (30.00/flat)			
#1 container	7.05			
'Windy City' (PP# 28,100)	dark purple	15-18"	Z 5	Jun-Jul
10ct#1 container				

All varieties are not maintained in all sizes, but these and other sizes can be grown upon request.

Fax: 800-854-1756

^{&#}x27;Big Beauty' (PPAF), 'Chivette' (PP# 30,151), & stellatum: Twixwood has started production of these cultivars. May have limited or late availability in 2021.

Amsonia Native Zone 3/4/3	Amsonia	Native	Zone 3/4/5-9
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Narrow Leaf Blue Star, Blue Star



'Blue Ice' (hardy to Zone 4) is similar to the native *tabernaemontana* with willow-like leaves that are wider than the *hubrichtii* and *ciliata* species. The *hubrichtii* and *ciliata* species (considered hardy to Zone 5) are native to the south central United States and feature fine, needlelike leaves that turn golden with hints of orange in fall.

'Blue Ice'	dark lavender	blue 12-18"	Z4	May
ciliata 'Halfway to Arkansas'	blue	24-36"	Z 5	May
hubrichtii	powdery blue	24-36"	Z 5	Apr-May
'Midway to Montana'	light blue	24-36"	Z 4	May
tabernaemontana 'Fontana'	blue	36"	Z 4	May-Jun
38ct	1.20 (45.60/flat)			
#1 container	6.00	Other sizes can be	growi	ı upon request.

A. ciliata var. tenuifolia 'Verdant Venture' (PPAF): Twixwood has started production of this cultivar. May have limited or late availability in 2021.

Anemone Nati	ve Zone 3/4/5-8
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Windflower, Japanese Anemone, Snowdrop Windflower



Prefers rich, well-drained soil in moist, semi-shaded areas. Anemones are spreading perennials that make great groundcovers, especially the North American native *canadensis* species (Zone 3) and the European native *sylvestris* (Zone 4). 'Honorine Jobert' (Zone 4) is also known as 'Alba' and sometimes sold under the species name *japonica* instead of *hybrida* and features single white flowers. 'Robustissima' (Zone 4, maybe even 3) is commonly called Grapeleaf Anemone and features single light pink flowers.

canadensis *	white	12-24"	Z3	Apr-Jun
x hybrida 'Honorine Jobert'	white	36-48"	Z 4	Aug-Sep
tomentosa 'Robustissima'	pink	24-36"	Z 4	Sep-Oct
x hybrida 'September Charm'	silvery-pink	24-48"	Z 5	Aug-Oct
sylvestris *	white	12-18"	Z4	Apr
10ct 3.00 ((30.00/flat)			

^{*} Early availability is limited in 2021

#1 container..... 7.05

All varieties are not maintained in all sizes.

Aralia Zone 4-8

Japanese Spikenard, Mountain Asparagus, Udo



An herbaceous perennial native to Japan, Korea, and China. Young shoots are considered a culinary delicacy in Japan and taste similar to asparagus. 'Sun King' is a yellow-leaved variety. Reddish-black berries are inedible but loved by the birds. *Aralia* 'Sun King' was the 2020 Perennial Plant of The Year. Reportedly deer resistant.

cordata 'Sun King'	white	36-72"	Jul-Sep
#1 container #2 container			

Aruncus	Native	Zone 3/4-8
Goat's Beard		00

Loves moist, fertile soil with some shade. 'Horatio' and 'Misty Lace' are shrub-like crosses between the two species (*aethusifolius* and *dioicus*). 'Misty Lace' was developed by Alan Armitage.

'Horatio' 'Misty Lace' (PP# 15,798)	creamy white creamy white	24-36" 18-24"		Jun-Jul May-Jun
#1 container	All variet	ies are not ma	aintaine	ed in all sizes.

Asclepias	Native	Zone 3-9
D C	11 1.0 1.01 1	,,mn _c

Butterfly Weed, Butterfly Milkweed, Swamp Milkweed

An important food source for Monarch butterflies.

A. incarnata is the tall pink milkweed commonly called Swamp Milkweed. 'Cinderella' is similar, but probably a bit shorter and pinker blooms. As the common name implies, prefers moist soil, but is surprisingly tolerant of average, well-drained soils.

A. sullivantii is commonly called Prairie or Smooth Milkweed. This native prefers moist prairie areas such as river bottomlands and is similar in appearance to Common Milkweed.

A. syriaca (Common Milkweed) has larger blooms and smooth stems. This native grows in drier areas and is even somewhat drought tolerant.

A. verticillata (Whorled Milkweed) has needle-like leaves in whorls at each node along the stem. This native also prefers drier native areas and is drought tolerant.

A. tuberosa has yellow-orange flower heads in summer and the 'Gay Butterflies' cultivar is even more colorful. This species is native to the uplands and is more drought tolerant.

incarnata	white and pink	48-60"	Jul-Aug	
i. 'Cinderella'	pink to dk. pink	24-36"	Jul-Aug	
sullivantii	pink	24-36"	Jun-Jul	
syriaca	pink, mauve, white	24-36"	Jun-Aug	
tuberosa	orange	12-30"	Jun-Aug	
t. 'Gay Butterflies'	red, orange, yellow	12-30"	Jun-Aug	
verticillata	white	12-30"	Jun-Sep	
10ct				
#1 container 7.05	All varieties	are not mainta	ined in all sizes.	

Aster - See Eurybia

Astilbe Zone 4-9

False Spirea



Feathery flower heads provide color from spring into summer. Astilbes prefer moist, semi-shady conditions and are great with hostas and ferns. Some varieties such as 'Fanal' and 'Maggie Daley' are considered hardier (Zone 3.)

We have chosen to alphabetize this list by cultivar name rather than species and to abbreviate the species names: a = arendsii, c = chinensis, j = japonica, s = simplicifolia. There is often disagreement over the species name and it may be best to leave them off altogether. We have also chosen to use the English names with the German in parentheses in most cases. 'Pumila' should probably be categorized as a subvariety, not a cultivar: *A. chinensis var. pumila*.

a. 'Bridal Veil' ('Brautschlezer')	white	18-36" Z3	June
j. 'Deutschland'	white	18-24" Z4	May-Jun
a. 'Fanal'	deep red	12-18" Z3	Jul
c. 'Maggie Daley'	purple	24-36" Z3	July
j. 'Peach Blossom'	pale peach-pink	18-24" Z4	May-Jun
c. var 'Pumila'	mauve pink	9-12" Z4	Jul-Aug
c. 'Purple Candle' ('Purpurkerze')	purple red	24-48" Z4	Jun-Jul
j. 'Rheinland'	clear pink	18-24" Z4	May-Jun
c. var. taquetti 'Superba'	deep lilac	24-48" Z4	Jun-Jul
c. 'Visions'	pink	12-18" Z4	Jul-Aug
a. 'White Gloria' ('Weisse Gloria')	white	25-28" Z4	Jun-Jul
#1 container 6.00			
c. 'Vision in Pink'	pale pink	18-20" Z4	Jun-Jul
c. 'Vision in Red'	purplish red	18-24" Z4	Jun-Jul
#1 container 7.05			

Baptisia Native Zone 3/4-8

Blue Wild Indigo, Blue False Indigo



Showy flowers held on tapering stalks up to 12" above mounds of blue-green leaves. Black seed pods add winter interest. The *australis* species (considered hardy to Zone 3) was the 2010 Perennial Plant of the Year. *B. australis var. minor* is similar to the species but slightly smaller. 'Purple Smoke' (hardy to Zone 4) is a cross between the *alba* and *australis* species and features flowers with a purple hue.

alba (macrophylla)	white	12-48"	Z 5	Apr-May
australis	indigo blue	36-48"	Z3	May-Jun
a. var. minor	blue	18-24"	Z3	May-Jun
'Purple Smoke'	smoky violet	36-48"	Z4	Apr-May
38ct				

#1 container...... 7.05

The Prairieblues[™] series (hardy to Zone 4) are Chicagoland Grows® introductions bred or selected for better bloom color and longer lasting blooms. Should be marketed with the Prairieblues[™] series name following the cultivar name (e.g., 'Twilite' Prairieblues[™])

australis 'Blue Mound' (PP# 25,902)	violet-blue	36-48"	Z4	May-Jun
'Lavender Rose' (PP# 25,876)	rosy pink	36-48"	Z 5	May-Jun
'Lunar Eclipse' (PP# 25,875)	white/blue	36-48"	Z4	May-Jun
'Midnight' (PP# 20,432)	violet blue	36-48"	Z4	May-Jun
'Mojito' (PP# 25,987)	pale yellow	36-48"	Z4	May-Jun
'Solar Flare' (PP# 20,408)	lemon yellow-orange	36-48"	Z4	May-Jun
'Sunny Morning' (PP# 25,479)	yellow	36-48"	Z 5	May-Jun
'Twilite' (x varicolor 'Twilite' PP# 19,011)	violet purple	36-60"	Z4	May-Jun
38ct 2.00	(76.00/flat)			
#1 container 8.20				

'Royal Purple' (PP# 25,508 Pairies BluesTM), 'Sandstorm' (PP# 25,926), 'Spilled Buttermilk' (PP# 26,319): Twixwood has started production of these cultivars. May have limited or late availability in 2021.

Brunnera Zone 3-8

Siberian Bugloss



Brunnera is a glossy-leaved herbaceous perennial. Enjoys moist soil in the shade.

e	6-18"	Apr-May
e to pink/lavender	6-12"	Apr-May
p blue	6-12"	Apr-May
l	e to pink/lavender	e to pink/lavender 6-12"

#1 container..... 9.25

Calamintha			Zone 5-9
Calamint, Lesser Calamintha			0
Small green leaves resemble those of <i>I</i> selection named by Mike Yanney of J Wisconsin Nursery Association Perer is the 2021 Perennial Plant of The Yes	ohnson's Nursery in nnial of the Year. <u>Cal</u>	Wisconsin. It v	vas the 2010
n. 'Montrose White' nepeta subsp. nepeta	white lilac to white	12-18" 12-18"	Jun-Oct Jun-Sep
38ct	62/flat)		
Campanula			Zone 3-8
Bellflower, Canterbury Bells			00
Bell-shaped flowers bloom over a long for the border and easy to grow. Blo slightly alkaline soil. carpatica 'Rapido Blue' c. 'Rapido White'			
#1 container 4.85	winte	0-8	way-зер
Chelone			Zone 3-8
Turtlehead			00
Loves wet, rich soil in the shade. 'Hot foliage and bright, deep pink flowers.	• •	cultivar with d	leeper green
lyonii 'Hot Lips'	pink	24-48"	Jul-Sep
#1 container 6.00			
Cimicifuga - See Actaea			

Coreopsis Native		Z	one 3/5-9
Lanceleaf Coreopsis, Sand Coreopsis, Threadleaf Co	reopsis, Tickseed		C
Coreopsis are excellent plants for every landscap drought; they thrive in even rocky or sandy soils of species ('Moonbeam' and 'Zagreb', hardy to Zone the fine needle-like leaves and are excellent for m considered less hardy (Zone 5) but are great performance.	with good drainage. 3) are landscape fav ass plantings. The	The orite rest a	<i>verticillata</i> s featuring are usually
verticillata 'Zagreb' golden yellow	12-18" T	Z3	May-Jur
38ct			
verticillata 'Moonbeam' creamy yellow	18-24" T	Z3	Jun-Aug
38ct			
'Jethro Tull' TM (PP# 18,789) yellow fluted petals	12-18" B	Z 5	Jun-Aug
UpTick TM Series Cream & Red cream w/ dark red centers ('Balupteamed' PP# 28,866)	12-14" B	Z 5	May-Sep
Gold & Bronze golden yellow w/ bronze red ('Baluptgonz' PP# 28,882)	centers 12-14" B	Z5	May-Sep
Yellow & Red yellow w/dark red centers ('Baluptowed' PP# 28,865)	12-14" B	Z5	May-Sep
38ct			
$\mathbf{B} = \mathbf{Broadleaf} \ (\mathbf{wider}, \mathbf{lance\text{-}shaped} \ \mathbf{leaves}) \qquad \mathbf{T} = \mathbf{Threadleaf}$	(fine, needle-like leaves)		
Delosperma			Zone 4-8
Ice Plant			0

'Orange Crush' (PP# 30,806)	orange w/ pink blush	3-6"	Apr-Jun
38ct	1.50 (57.00/flat)		
#1 container	7.05		

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Perennials 41

Dianthus Zone 3-9

Pinks, Cheddar Pinks

A delightful perennial for the sunny border or cutting bed. Most cultivars have small carnation-like flowers in vivid colors with a spicy fragrance. The foliage is usually gray-green to blue-gray. For best performance, provide full sun in a gritty, alkaline, fairly dry soil.

The new Rockin'TM Series are taller, broad-leaved varieties with blooms all summer long.

'Firewitch' ('Feuerhexe')	magenta pink	3-6"	Z 5	May-Jun
Rockin' Series TM				
'Rockin' Pink Magic'	light to dark pink	18-24"	Z 5	Jun-Sep
'Rockin' Purple'	lavender-purple	18-24"	Z 5	Jun-Sep
'Rockin' Red'	red	18-24"	Z 5	Jun-Sep
'Rockin' Rose'	deep rose	18-24"	Z 5	Jun-Sep
50ct	.85 (42.50/flat)			
38ct1.	.50 (57.00/flat)			
#1 container 6.				
'Fuchsia Fire' (PPAF)	magenta pink	5-6"	Z 5	Jun
'Neon Star' (PP# 14,549)	hot pink	6-9"	Z 3	Jun-Sep
38ct1.	.50 (57.00/flat)			
#1 container 7.	.05 All varieties	s are not main	tained	l in all sizes.

Digitalis Zone 6-9

Foxglove

One of the best flowers available for partially shaded areas. *Digitalis* forms large rosettes of dark green, hairy, toothed leaves. Said to prefer acidic soil. *Digitalis* in general is biennial, but 'Arctic Fox Rose' seems to have more perennial characteristics.

'Arctic Fox Rose' ('Balroxose' PP# 31,800)	hot pink	6-9"	Jun-Sep
#1 container 7.05			

Echinacea	Native	Zone 3/4/5-8
Echinacca	TALIVE	Zonc 3/4/3-0

Coneflower, Purple Coneflower, Tennessee Coneflower



'Magnus' is the standard in purple Echinaceas and 'White Swan' (sometimes called 'Alba') is its white counterpart. E. tennesseensis (hardy to Zone 5) is native to Tennessee as the name implies, and is included in the parentage of many popular hybrids such as Pixie MeadowbriteTM.

purpurea 'Magnus' ('Magnus Superior')* p. 'White Swan'	purple white		Jun-Aug Jun-Aug
50ct Seed	0/flat)		

'Chevenne Spirit' is an assortment of bright colors in shades of red, orange, purple, scarlet, cream, yellow and white. It's fun to grow and performs very well. The Pow-Wow® series varieties are also incredible performers. Short, compact, and covered with blooms. Brilliant color typically only seen in more expensive hybrids.

'Cheyenne Spirit' purpurea PowWow® White ('Pas702918') p. PowWow® Wild Berry ('Pas702917')	mixed white rose purple	18-36"	Z3	Jun-Aug Jun-Aug Jun-Aug
50ct Seed				

E. purpurea is the native purple coneflower of the prairies. Pixie MeadowbriteTM is a favorite Chicagoland Grows® dwarf coneflower.

Pixie Meadowbrite TM	pink	12-24"	Z3	Jun-Aug
('CBG Cone 2' PP# 18,546)				
purpurea (Native)	purple pink	24-60"	Z3	Jun-Aug
p. 'Kim's Knee High'	clear pink	12-24"	Z3	Jun-Aug
#1 container 7.05				

^{*}Due to some inconsistencies, Twixwood is switching seed suppliers. The new supplier calls their seed 'Magnus Superior' because it has gone through a more careful selection process to ensure the quality and consistency you expect. During this transition year (2021) both will be available and we will ship whichever looks best at that time.

E. tennesseensis is maintained as field stock and can be grown upon request.

Continued on the Next Page

Echinacea (Continued)

These patented hybrids receive a lot of marketing, so are often requested by your customers. Some are unique colors or double bloomers, but many don't perform as well as the less expensive standards. We keep trialing them as they come out and keep going with the ones that perform well, but use with caution until performance is proven.

The Kismet® Series come from the Terra Nova Nursery breeding program and we think they are particularly adapted to the landscape market.

The performance of the Sombrero® Series has stood out above the others in trials and in our own experience. Sombero® Baja Burgundy even won the first ever All American Selections (AAS) performance award for perennials for 2020 (See also Rudbeckia American Gold Rush).

purpurea 'Butterfly Kisses' (PP# 24,458)* p. 'Fatal Attraction' (PP# 18,429) p. 'Virgin' (PP# 18,684)	dbl pink magenta white	12-15" 18-24" 18-24"	Z4 Z3 Z3	Jun-Aug Jun-Sep Jun-Aug
Kismet® Series				
Intense Orange ('TNECHKIO' PP# 28,769)	orange	18"	Z4	Jun-Aug
Raspberry ('TNECHKR' PP# 28,768)	pink	18"	Z4	Jun-Aug
Red ('TNECHKRD' PPAF)	red	18"	Z4	Jun-Aug
White ('TNECHKW' PPAF)*	white	18"	Z4	Jun-Aug
Yellow ('TNECHKY' PP# 29,922)	yellow	18"	Z4	Jun-Aug
Sombrero® Series				
Adobe Orange ('Balsomador' PP# 28,639)	orange	18-20"	Z4	Jun-Aug
Baja Burgundy ('Balsombabur' PP# 28,162)	burgundy-red	18-20"	Z4	Jun-Aug
Granada Gold ('Balsomold' PP# 30,115)	golden-yellow	18-20"	Z4	Jun-Aug
Hot Coral ('Balsomcor' PP# 23,907)	coral-red	18-20"	Z4	Jun-Aug
Lemon Yellow Improved ('Balsomemyim' PP# 30,116)	lemon-yellow	18-20"	Z4	Jun-Aug
Salsa Red ('Balsomsed' PP# 23,105)	red	18-20"	Z4	Jun-Aug
Sangrita ('Balsomanita' PP# 30,138)	deep red	18-20"	Z4	Jun-Aug
Tres Amigos ('Balsomtresgo' PP# 30,750)	peachy-coral	18-26"	Z4	Jun-Aug

Eupatorium (Eutrochium) Native Zone 4-8

Joe-Pye Weed

 $\cap \cap$

These plants are being reclassified. 'Little Joe' along with the native *E. purpureum* (Joe-Pye Weed) is now going under the genus name *Eutrochium* still with the *dubium* species. 'Summer Snow' is a white-flowered cultivar developed by the Chicago Botanic Garden.

'Milk & Cookies' has chocolate red foliage with milky white flowers. 'Polished Brass' foliage emerges red like its seed parent 'Milk & Cookies' but the leaves are glossy and it is a larger plant.

dubium 'Little Joe' (PP# 16,122)	mauve-purple	48-60"	Jul-Sep
maculatum 'Summer Snow' (PP# 31,128)	white	48-60"	Jul-Aug
perfoliatum 'Milk and Cookies'	white	36-42"	Jul-Aug
'Polished Brass'	pink	48"	Jul-Sep

38ct...... 1.50 (57.00/flat)

#1 container..... 7.05

Eurybia (Aster) Native Zone 3-8

White Wood Aster

Formerly classified as *Aster divaricatus*. *E. divaricata* is a woodland native that prefers part to full shade.

divaricata	white	12-30"	Aug-Oct
38ct	1.20 (45.60/flat)		
#1 container	6.00		

Eutrochium - See Eupatorium

Ferns	Native	Zone 3/4/5-8
1.01112	Native	ZUIIC 3/4/3-0

Ferns



Athyrium filix-femina (Lady Fern) has lacy green leaves. Grows in tall clumps. Native.

Athyrium nipponicum 'Pictum' (Japanese Painted Fern) produces fronds that are soft silvery-gray with hints of red and blue. Probably more accurately named A. nipponicum var. pictum. May be hardy to Zone 3.

Dryopteris erythrosora (Autumn Fern or Japanese Shield Fern) has coppery fiddleheads which open to golden-green fronds turning a coppery color that deepens in fall.

Dryopteris marginalis (Leatherwood Fern) is a very adaptable fern with evergreen foliage. Also called Marginal Wood or Marginal Shield Fern. Native.

Dryopteris remota (Remote Wood Fern) is a vigorous grower. The species name, *remota*, means scattered. As *Dryopteris* ferns are often given common names of Wood, Shield or Buckler it could also be called Scattered Wood Fern, etc.

Matteuccia struthiopteris (Ostrich Fern) is a popular large, vase-shaped fern with tall, erect, gracefully arching, dark green fronds. Typically 2-3', but can reach 6'. Native.

Osmunda cinnamomea (Cinnamon Fern) has yellowish green fronds with cinnamon colored fibers at the base of the plant which are used in potting Orchids. Native.

Polystichum acrostichoides (Christmas Fern) is an evergreen fern with glossy fronds. Native.

Athyrium filix-femina	(Lady Fern)	12-36"	Zone 4-8
Athyrium nipponicum 'Pictum'	(Japanese Painted Fern)	12-18"	Zone 4-8
Dryopteris erythrosora	(Autumn Fern)	18-30"	Zone 5-8
Dryopteris marginalis	(Leatherwood Fern)	18-24"	Zone 3-8
Dryopteris remota	(Remote Wood Fern)	24-30"	Zone 4-8
Matteuccia struthiopteris	(Ostrich Fern)	36-72"	Zone 3-7
Osmunda cinnamomea	(Cinnamon Fern)	24-36"	Zone 3-9
Polystichum acrostichoides	(Christmas Fern)	12-24"	Zone 3-9

^{#1} container..... 8.20

Due to high demand and a longer lead time for full maturity, some varieties may have late or limited availability ini 2021.

Fax: 800-854-1756

Geranium	Native	Zone 3/4/5-8
Hardy Geranium, Cranesbil	l, Spotted Geranium	00
Dependable perennials tha	t work well as groundcovers or in	dividually Foliage is green

Dependable perennials that work well as groundcovers or individually. Foliage is green and often turns reddish in fall except for 'Dark Reiter', which has chocolate colored foliage year-round. The *maculatum* species is native as are the parents of several others.

'Rozanne' was the 2008 Perennial Plant of the Year®. It continues to be in high demand because of its excellent performance. Sometimes also called 'Gerwat' or 'Jolly Bee'.

sanguineum 'Max Frei'	reddish purple	6-9"	Z 3	May-Jun
38ct	/flat)			
x cantabrigiense 'Biokovo' x c. 'Karmina' macrorrhizum 'Bevan's Variety'	white tinged w/pink carmmine red deep magenta		Z5	May-Jun May-Jun Apr-Jul
38ct	'flat)			
maculatum pratense 'Dark Reiter' 'Rozanne'®	light pink blue w/purple leaves violet blue	8-10"	Z 4	Apr-May May-Aug May-Sep
#1 container 8.20				

Helleborus Zone 3/4-9

Lenten Rose, Winter Rose, Christmas Rose, Hellebore



Evergreen foliage with leathery, rich green leaves. Branched stems hold pendant, saucer-shaped flowers. Partial sun and excellent drainage yield an extended flowering period. 'Royal Heritage' is a mixture of colors including purples, reds, near-blacks, whites, greens and pinks. 2005 Perennial Plant of the Year® all Hellebores.

Ivory Prince ('Walhelivor' PP# 16,199)	creamy white	12-18"		Mar-May
orientalis	white, pink, rose-purple	12-18"	Z4	Feb-Apr
'Royal Heritage' TM	mixed	18-24"	Z4	Feb-Apr
Proven Winners® HoneyMoon®	Series			
'French Kiss'	white w/ red center & edge	18-24"	Z 4	Mar-May
'New York Night'	shades of black	18-24"	Z 4	Mar-May
'Paris in Pink'	burgundy & white	18-24"	Z 4	Mar-May
'Rio Carnival'*	light yellow edges w/ burgundy	18-24"	Z 4	Mar-May
'Romantic Getaway'	white w/ patterned red center	18-24"	Z 4	Mar-May
'Rome in Red'	maroon, wine red	18-24"	Z 4	Mar-May
'Sandy Shores'	pale apricot	18-24"	Z 4	Mar-May
'Spanish Flare'	light yellow with maroon flares	18-24"	Z 4	Mar-May
'Tropical Sunset'	creamy yellow w/ burgundy	18-24"	Z 4	Mar-May
'Vegas Nights'	gray to dark purple	18-24"	Z 4	Mar-May
Mixed	mixed	18-24"	Z4	Mar-May
#1 container				
#2 container 20	(00)			

^{*}May have limited or late availability in 2021.

All varieties are not maintained in all sizes but can be grown upon request.

Hemerocallis Alphabetically

Full descriptions in our normal format are on the following pages

<u>Name</u>	Color Group	Price
'Apricot Sparkles' (PP# 13,223)	Gold/Orange/Apricot	\$7.05
'Black Eyed Stella'	Gold/Orange/Apricot	\$7.05
'Chicago Apache'		
'Going Bananas' (PP# 17,164)*	Yellow	\$7.05
'Happy Returns'	Yellow	\$5.40
'Hyperion'		
'Little Grapette'	Lavender/Purple	\$5.40
'Little Wine Cup'		
'Pardon Me'		
'Purple de Oro'	Lavender/Purple	\$5.40
'Rocket City'		
'Rosy Returns'	Pink	\$7.05
'Ruby Spider'*		
'Ruby Stella'		
'Stella de Oro'		
'Strawberry Candy'		
'Summer Wine'		
'Sunday Gloves'		

^{*} Proven Winners® Rainbow Rhythm® collection

Prices for Other Sizes

#2 containers

#2 containers 9.50 'Chicago Apache', 'Hyperion', 'Stella de Oro'

#2 containers are not maintained in all varieties, but can be grown upon request

Fax: 800-854-1756

Hemerocallis	Zone 3-9
nemerocams	Zone 3-9

Daylily



Daylilies are very popular and versatile perennials; tolerant of a wide variety of growing conditions. Descriptions include bloom color, bloom size, bloom season, class, mature plant height, habit and price group.

	Gold/Orange/Apricot Shad	es	
'Apricot Sparkles' (PP# 13,223)	deep apricot	3" E	Dip 15" Re 3
'Black Eyed Stella'	golden yellow w/ dark red e	ye 3" E	Dip 13" Re 3
'Rocket City'	bittersweet-orange	4.5" EM	Tet 30" 3
'Stella de Oro'	gold	2.75" E	Dip 16" Re Ext 1
	Yellow Shades		
'Going Bananas'* (PP# 17,164)	lemon-yellow	4" M	Dip 17" Re 3
'Happy Returns'	canary-yellow	3" E	Dip 16" Re Ext 2
'Hyperion'	lemon-yellow	5.5" M	Dip 40" Re Fr Ext 2
	White Shades		
'Sunday Gloves'	near white w/ pale yellw tht	5.25" E M	Dip 27" Re Fr Ext 2
	Pink Shades		
'Rosy Returns'	rose-pink w/yellow throat	4" E	Dip 14" Re 3
'Strawberry Candy'	pink w/rose-red eye	4.25" EM	Tet 26" Re 2
	Lavender/Purple Shades		
'Little Grapette'	grape w/green throat	2" E	Dip 16" 2
'Little Wine Cup'	wine w/green throat	2" E	Dip 20" Re 2
'Purple de Oro'	medium purple w/gold tht	3" M	Dip 20" Re 2
'Summer Wine'	purple-wine w/green throat	5.5" M	Dip 24" 2
	Red Shades		
'Chicago Apache'	scarlet w/green throat	5" M	Tet 27" Fr 2
'Pardon Me'	cranberry-red w/green tht	2.75" M	Dip 18" Re 2
'Ruby Spider' *	ruby red w/ yellow throat	9" E	Tet 34" 3
'Ruby Stella'	scarlet w/ yellow throat	2.75" E M	Dip 18" Re 2

^{*} Proven Winners® Rainbow Rhythm® collection

 $E = Early \ Season \qquad \qquad Dip = Diploid \qquad \qquad Re = Re-bloomer$ $M = Mid \ Season \qquad \qquad Tet = Tetraploid \qquad \qquad Fr = Fragrant$

L = Late Season Ext = Extended Bloom 16 hours +

Price Groups - #1 containers

1	4.60
2	5.40
3	7.05

Heuchera Zone 3/4-8

Coral Bells, Alum Root



Semi-evergreen, clump forming foliage plants. Foliage color can vary depending on sun exposure. Some do better with more shade; especially the lighter colored varieties.

The cultivars in the first groups of lower priced *Heuchera* are the standard, tried and true varieties you can count on. 'Autumn Bride' is a large, green plant similar to the villosa species.

The higher priced, patented varieties are newer and less consistent in their performance. Some do not seem as hardy or otherwise environmentally adaptable, but the colors and foliage options are fascinating enough to be worth trying a few. We do not have room for descriptions that do justice to each variety so we encourage you to look them up online or ask us for more information.

'Chatterbox' 'Palace Purple' (micrantha var. diversifolia)	Foliage Color Flower Color green rose-pink maroon white	12-24" 12-24"	Z3 Z4	Jun-Sep Jun-Jul
50ct Seed	88 (33.44/flat) .10 (37.80/flat)			
'Autumn Bride' (villosa) 'Green Spice' 'Plum Pudding' 'Silver Scrolls' 'Steel City'	large velvety green white green, silvery red veins whit plum-purple white silvery white blue-green pink	18-36" e 9-12" 8-12" 9-24" 12-24"	Z3 Z4 Z4 Z4 Z4	Aug-Sep Jun-Jul Jun-Jul Jun-Jul May-Jul
38ct	60 (46.80/flat)			
'Caramel' (PP# 16,560) (villosa) 'Georgia Peach' (PP# 19,375) 'Grape Expectations' (PP# 26,894) 'Lime Marmalade' (PP# 21,861) 'Midnight Rose' (PP# 18,551) 'Obsidian' (PP# 14,836) 'Peach Flambe' (PP# 17,195)	caramel apricot-orange pink peach-orange white grape-purple white lime-green white dk purple w/ pink spots whit almost black white bright peach and red white	12-20" 10-12" 9-18" ee10-30" 8-10"	Z4 Z4 Z4 Z4 Z4 Z4 Z4 Z4	Jun-Jul Jun-Jul Jun-Jul May-Jul Jun-Jul Jun-Jul
#1 container 8.	20	Cont	inued o	on next page

erenniais				
Heuchera (Continued)				
Forever® Series				
Purple ('TNHEUFP' PP# 26,358)	intense purple pink	12-15"	Z 4	Jun-Jul
Red ('TNHEUFR' PP# 29,644)	bright red white	7-14"	Z4	Jun-Jul
Proven Winners® DOLCE® Seri	ies			
'Apple Twist' (PP# 31,221)*	yellow, green edge cream	10-12"	Z 4	Jun-Jul
'Cherry Truffles' (PP# 31,396)*	bright red light pink	8-10"	Z 4	Jun-Jul
'Silver Gumdrop' (PP# 29,207)*	iridescent silver pink	6-8"	Z 4	Jun-Jul
'Wildberry' (PP# 31,222)*	purple, charcoal veins white	10-14"	Z 4	Jun-Jul
Proven Winners® PRIMO® Seri	es			
'Black Pearl' (PP# 29,395)*	jet black cream	8-10"	Z4	Jun-Jul
#1 container 9.2	25			
*May have limited or late availability in	2021.			
Heucherella				Zone
Foamy Bells				00
Heucherella is a hybrid genus pr	oduced from a cross between <i>E</i>	<i>Heuchera</i>	and 7	Tiarella.
'Gold Zebra' (PP# 22,104)	yellow, red center white	8-16"		May-Jul
#1 container 9.2	25			
Hibiscus			7	Zone 5-9
Hibiscus				$\overline{}$
A sturdy, woody perennial that rich soil, but can tolerate avera contrast with the brightly colored	ge soil as well. These varieties			
'Blackberry Merlot' (PPAF)*	deep velvet red	48-54"		Jul-Sep
'Midnight Marvel' (PP# 24,079)	carmine-red	48"		Jul-Sep

^{&#}x27;Midnight Marvel' (PP# 24,079)
'Starry Starry Night' (PP# 27,901) 36-48" Jul-Sep #2 container......18.50

^{*}May have limited or late availability in 2021.

Hosta (Alphabetically)

Zone 3-9

Plantain Lily, Funkia



Hosta are listed alphabetically. See next page for price groups. *Hosta* prefer and perform best in at least some shade.

'Abiqua Drinking Gourd'*	\$8.20
'August Moon'	
'Autumn Frost' (PW PP# 23,224)*	\$9.25
'Blue Angel'	\$6.00
'Blue Cadet'	\$6.00
'Coast to Coast' (PW PP# 26,469)*	\$9.25
'Diamond Lake' (PW PP# 30,769)*	\$9.25
'Elegans' (sieboldiana)	\$6.00
'Empress Wu' (PW PP# 20,774)	\$9.25
'Etched Glass' (PW PP# 30,748)*	\$9.25
'Fire And Ice'	\$8.20
'Fire Island'	\$8.20
'First Frost'	\$8.20
'Francee'	\$6.00
'Frances Williams' (sieboldiana)	\$6.00
'Great Expectations'	\$6.00
'Guacamole'	\$6.00
'Hadspen Blue'	\$6.00
'Halcyon'	\$6.00
'Hudson Bay' (PW PP# 23,598)*	\$9.25
'Humpback Whale'*	\$8.20
'Island Breeze' (PP# 27,151)*	\$8.20
'June'	\$6.00
'Krossa Regal'	\$6.00
'Liberty'*	\$8.20
'Minuteman'	\$6.00
'Miss America' (PW PP# 32,068)*	\$9.25
'Patriot'	
'Rainforest Sunrise'*	\$8.20
'Royal Standard'	\$6.00
'Seducer' (PW PP# 22,413)*	\$9.25
sieboldiana 'Elegans'	\$6.00
sieboldiana 'Frances Williams'	\$6.00
'Stained Glass'*	\$8.20
'Sum and Substance'	\$8.20
'Waterslide' (PW PP# 30,303)	
'Wheee!' (PW PP# 23,565)*	
'Wu-La-La' (PW PP# 31,309)*	\$9.25

^{*} Late availability

Hosta (Continued)			
	Foliage Color Flower Color	Size	
'August Moon'	yellow heart shaped pale lavender	M	
'Blue Angel'	huge blue-gray pale lavender	L	0
'Blue Cadet'	blue-gray heart shaped light violet	M	
'Francee'	dk green w/narrow white margin pale lavender	M	0
'Great Expectations'	creamy white center blue-green margin white	L	
'Guacamole'	dk. apple-grn w/dk. green streaked margins white	e M	E
'Hadspen Blue'	grayish-blue, slightly cupped lavender-gray	M	0
'Halcyon'	blue-green spear shaped lilac blue	M	E
'June'	gold center w/blue-green margins pale lavender	S	
'Krossa Regal'	giant frosty blue vase shaped lavender	L	
'Minuteman'	dark green w/creamy white margin lavender	M	0
'Patriot'	dark green w/wide white margins lavender	M	E
'Royal Standard'	narrow oval medium green white	L	
sieboldiana 'Elegans'	large heart shaped blue green white	L	0
s. 'Frances Williams'	blue center w/lime or cream margin white	L	
#1 container	6.00		
'Abiqua Drinking Gourd'	deeply cupped blue-green white	M	
'Fire And Ice'	Patriot reverse, white ctr, dk grn marg lavender	M	
'Fire Island'		S/M	
'First Frost'	thick blue w/ bright cream margin purple	M	
'Humpback Whale'	blue-green heart shaped white	L	
'Island Breeze' (PP# 27,151)	bright yellow w/green margin dark lavender	S	
'Liberty'	blue-green w/yellow margin lavender	L	0
'Rainforest Sunrise'	chartreuse yellow w/ green margin white	S	
'Stained Glass'	gold w/ wide dk green margin lavender	M	(E)
'Sum and Substance'	huge chartreuse corrugated leaves lavender	L	0
#1 container			
Proven Winners® SHADOW	VLAND® Collection		
	blue w/ wide yellow margin lavender	M	
	gold w/wavy edges pale violet	L	
	blue heart shaped w/wavy edges pale lavender	M	
'Empress Wu' (PP# 20,774)	large dark green violet	L	
'Etched Glass' (PP# 30,748)	bright yellow w/dark green margin white	M	
'Hudson Bay' (PP# 23,598)	wide blue margin w/cream center white	M	
'Miss America' (PP# 32,068)	green heart shaped w/white center white	M	
'Seducer' (PP# 22,413)	drk green w/gold margin & wht between white	L	
'Waterslide' (PP# 30,303)	blue ruffled lavender	M	
'Wheee!' (PP# 23,565)	green w/ cream margin ruffled light lavender	M	
'Wu-La-La' (PP# 31,309)	large blue-green w/apple-green margin violet	L	
, , ,		_	
#1 container F = Indicates a fragrant Hosta. In	9.25 Itensity of fragrance can vary greatly depending on variety an	ıd habi	tat.

 $_{=}$ Indicates this Hosta has shown greater sun tolerance. All hostas prefer shade, the ones marked here can take sun much of the day. Many others can take a few hours of sun especially in the morning. Colors and patterns can vary with differing amounts of sunlight.

Iris	Native		7 .0	ne 3/5-9
Siberian Iris, Southern Blue Fl			20	1000000000000000000000000000000000000
	_			~~~~
Siberian iris are as nardy as th	ie name suggests (Zone 3). 'Cae	esar's Brotnei	' is a u	ieep biue.
. 3	hardy to Zone 5), occurs natu s fragrant flower grows in wa	•	•	
s. 'Caesar's Brother'	deep blue	36-48"	Z3	May
18ct#1 container				·
virginica shrevei	blue-violet	18-24"	Z 5	Jun
#1 container	7.05			
Kniphofia			7	Zone 5-9
Red-Hot Poker, Torch Lily				\bigcirc
High Roller (PP# 32,295)	ditional protection in Zone 5.	36-48"		May-Jun
High Roller (PP# 32,295) Proven Winners® PYROMAN		36-48"		May-Jun
	red-orange/peach yellow	30-36"		May-Jun
_	chartreuse-yellow/creamy white angerine-orange/creamy white			May-Jun May-Jun
'Orange Blaze' PP# 31,545)*		24-30"		May-Jun
E .	yellow	36-40"		May-Jun
#1 container		limited or late a	vailabili	ty in 2021.
Lavandula			Z	one 5-9
English Lavender				\cup
a desirable accent. Prefers lig a 'Must-Grow Perennial' by humidity better than other v	b garden or sunny border. Its ht soil and fairly dry condition Better Homes & Gardens. R arieties, and may even be ha orter than sometimes adverti	s. 'Phenome eportedly ha rdier (Zone 4	nal' wa ndles	as named heat and
angustifolia 'Munstead'	lavender-blue	12-18"		Jun-Aug
50ct Seed#1 container	The state of the s			
x intermedia 'Phenomenal' (PP	# 24.193) lavender	24-36"		Jun-Aug

angustifona iviunstead	lavelider-blue	12-10	Jun-Aug
50ct Seed	50/flat)		
x intermedia 'Phenomenal' (PP# 24,193)	lavender	24-36"	Jun-Aug
38ct 1.50 (57.0	00/flat)		
#1 container			

Fax: 800-854-1756

Lespedeza			Zone 4-8
Bush Clover			00
A deciduous, semi-woody shrub. Can season. In zones 4 and 5, it may freeze can be grown as an herbaceous peren	back to the ground.		_
thunbergii 'Gibralter'	rosy-purple	48-60"	Aug-Sep
#1 container 7.05			
Leucanthemum			Zone 5-9
Shasta Daisy			0
Formerly a member of the genus <i>Chr</i> ytions and deadhead after blooming to		-	rained loca-
x superbum 'Becky'	white	36-48"	Jun-Sep
x s. 'Madonna'	white	8-10"	Jun-Sep
x s. 'Snowcap'	white	12-18"	Jun-Sep
Proven Winners® Amazing Daisies® Cox s. 'Banana Cream' (PP# 23,181) Daisy May® ('Daisy Duke', PP# 21,914) #1 container	ollection lemon yellow white	12-18" 12-24"	Jun-Aug Jun-Sep
Liatris			Zone 3-8
Blazing Star, Gayfeather			0
Very important plants for pollinators. terflies.	Especially attractive	to hummingbi	rds and but-
s. 'Kobold'	deep purple	18-30"	Jul-Aug
#1 container 7.05			
Lobelia N	Native		Zone 3-9
Cardinal Flower			00
Great for pollinators, especially humm red blooms with green foliage.	ingbirds and butterfl	ies. This native	has striking
cardinalis	scarlet-red	24-48"	Jul-Sep
#1 container 6.00			

Lupinus			Zone 5-8
Lupine			$\overline{\bigcirc}$
Tall, showy flower spikes ab Good for cut flowers.	ove palmate foliage. Does l	oest in well-venti	lated areas.
Russel Hybrids Mix	mixed	36-48"	May-Jul
#2 container	16.50		
Westcountry TM series			
Blacksmith	purple	24-36"	May-Jul
Manhattan Lights	purple, yellow	30-36"	May-Jul
Masterpiece	purple	27-29"	May-Jul
Persian Slipper	purple	24-36"	May-Jul
Rachel de Thame	pink/white	15-36"	May-Jul
Red Rum	red	24-36"	May-Jul

red, yellow

Monarda Zone 4-9

Bee Balm, Bergamot

#1 container...... 8.20

Tequilla Flame



May-Jul

30-36"

Great for the cutting, hummingbird and butterfly gardens. Does best in a moisture-retentive, rich soil with sunny, open conditions. Several of these cultivars (generally considered hardy to Zone 4) are often sold under the species name of *didyma* in reference to the native *didyma* parentage of most of the hybrids.

'Marshall's Delight'	deep pink	24-36"	Jun-Aug
'Mojo' (PP# 29,982)	purple	24-30"	June
'Petite Delight'	lavender-rose	12-18"	Jul-Aug
'Raspberry Wine'	raspberry wine-red	36-48"	Jul-Aug
38ct	1.20 (45.60/flat)		
#1 container	6.00		
Bee-You® series			
Bee Free TM	purple	30-36"	Jun-Aug
('MON0012BFR' PP# 29,032)	• •		C
Вее Нарру тм	red w/chocolate ctr	30-36"	Jun-Aug
('MON0001BHA' PP# 29,080)			
Bee Lieve TM	pink w/maroon bands	10-12"	Jun-Aug
('MON0004BLI' PP# 29,078)			
Bee Merry TM (PPAF)	coral pnk w/chocolate ctr	10-12"	Jun-Aug
Bee Pretty TM (PPAF)	lavender blue w/gray ctr	15-18"	Jun-Aug
Bee True TM	magenta prpl w/red ctr	22-26"	Jun-Aug
('MON0005BTR' PP# 29,079)			

Nepeta Zone 3/4/5-8

Catmint

Gray-green foliage is complimented by soft lavender-blue flowers. The taller varieties tend to fall over and spread across the ground unless staked. Trim to rejuvenate and extend flowering. 'Walker's Low' was the Perennial Plant of the Year® in 2007.

There is some variation on the species names for the different varieties. 'Walker's Low' and 'Blue Wonder' should probably be *racemosa* species, but are often sold as *faassenii*. Faassenii is a sterile hybrid of *racemosa* and *nepetella*, so should be designated *x faassenii* on 'Kit Cat'.

Little Trudy® is truly a dwarf catmint, one of the most compact and consistent we've ever seen.

'Walker's Low'	lavender-blue	24-30"	Z4	Apr-Sep
38ct	(flat)			
'Blue Wonder'	dark blue			May-Sep
'Early Bird'	lavender	12"	Z3	May-Sep
'Kit Cat'	blue	12-18"	Z3	May-Sep
38ct	'flat)			
Junior Walker TM ('Novanepjun' PP# 23,074)	lavender-blue	15-18"	75	Jun-Sep
Little Trudy® ('Psfike' PP# 18,904)	purple-violet			May-Sep
38ct	'flat)			
'Cat's Pajamas' (PP# 31,127 Proven Winners®)	blue	12-14"	Z3	May-Sep
#1 container 7.05				

Penstemon Zone 3-8
Beardtongue

A perennial with some tolerance for drought, summer heat and humidity. Dark winered foliage. Make sure the soil is well-drained. Remove spent flower stalks to lengthen bloom time. Cut back to basal foliage when done blooming to improve plant appearance.

digitalis 'Husker Red'	white	24-36"	Apr-Jun
38ct	,		
'Dark Towers' (PP# 20,013)	pale pink	18-36"	May-Jun
38ct 1.:	50 (57.00/flat)		
#1 container 7.0	05		

Perovskia Zone 5-9

Russian Sage

A durable and tough sub-shrub. Very attractive silver, divided foliage is topped by light blue flowers during summer. Needs a neutral, loose soil in sunny, open conditions.

atriplicifolia a. 'Little Spire'	lavender-blue violet-blue	36-60" 18-24"	Jul-Oct Jun-Oct
38ct	.99 (37.62/flat)		
#1 container	5.40		
#2 container	11.00		

#2 container.....11.00

a. 'Denim 'n Lace' (PP# 28,445 Proven Winners®) blue-purple

28-32" Jul-Oct

#1 container..... 9.25

All varieties are not maintained in all sized, but can be grown upon request.

Phlox Zone 3/4/5-8

Garden Phlox, Tall Phlox, Woodland Phlox



Traditional and indispensable perennial for use in virtually any landscape situation. Bright, colorful flowers over a long season offer a unique fragrance. Tall Phlox likes a rich, moisture-retentive soil. *Phlox divaricata* is the native woodland Phlox, with an intermediate habit. *Phlox paniculata* are the tall garden variety. Intermediate Phlox are bred, or selected, between or from other species. *Phlox subulata* are the creeping variety.

divaricata 'Blue Moon'	blue	12-18"	Z3	Apr-May
paniculata 'David'	white	24-48"	Z3	Jul-Sep
p. 'Jeana'	lavender-pink	36-48"	Z3	Jul-Sep
p. 'Laura'	purple w/white eye	36-48"	Z 4	Jul-Sep
38ct	1.20 (45.60/flat)			
#1 container	6.00			

Field stock of additional Chicagoland Grows® varieties are maintained and can be custom grown upon request. Includes: 'Forever Pink' (PP# 24,918), 'Pink Profusion' (PP# 25,883), 'Running With Scissors' (PP# 28,738), 'Violet Pinwheels' (PP# 25,884), 'Early Bird' (PP# 28,737), 'Pink Parasol' (PP# 28,881), 'Plumtastic' (PP# 28,896)

Platycodon Zone 3-8

Balloon Flower



A beautiful addition to the front of a perennial border or mass grouping in a display bed. Flower buds are reminiscent of balloons before they open.

grandiflorus 'Astra Blue' blue 3-6" Jun-Aug

#1 container..... 5.40

Polygonatum

Zone 3-8

Solomon's Seal



Green leaves edged in a broad strip of creamy white, Long, tubular, white flowers dangle from the axil underneath the leaves in early spring. Prefers moist woodland settings.

odoratum 'Variegatum'

white

24-36"

Apr-May

#1 container..... 9.25

Pulmonaria

Zone 4-9

Lungwort, Bethlehem Sage



A stand-out for moist, cool, shady areas. Dark green foliage with silver spotting. Protect from hot afternoon sun. May be okay in colder regions if kept in protected areas.

'Raspberry Splash' 'Trevi Fountain'

raspberry-red

9-12"

Apr

cobalt-blue

9-12"

Apr

#1 container..... 8.20

Rudbeckia

Zone 3/4-9

Black-Eved Susan, Coneflower



One of the best perennials for long life, ease of care, disease resistance, and seasonlong beauty and color. The cut flowers and dried seed heads are second to none. 'Little Goldstar' is not considered as hardy (Zone 4.) Twixwood recommends 'Summerblaze'. It has narrower leaves like 'Viette's Little Suzy' and is more resistent to black spot (Septoria) than 'Goldsturm'.

'Goldsturm' (fuldiga var. sullivantii)	
'Summerblaze'	
Viette's Little Suzy (fulgida 'Blovi')	

vellow yellow

24-36" Z3

Jun-Sep Jul-Sep

yellow

Z3 24-30" 12-18" Z3

Jul-Sep

50ct Seed..... .65 (32.50/flat) 38ct.....

.88 (33.44/flat)

#1 container...... 4.85

'Glitters Like Gold' and 'American Gold Rush' are Brent Horvath introductions from Intrinsic Perennial Gardens. 'Americana Gold Rush' won the first ever All American Selection (AAS) performance award for Perennials for 2020 (see also Echinacea Baja Burgundy).

'American Gold Rush' (PP# 28,498)

vellow-gold

18-24" Z4 Jul-Sep

'Glitters Like Gold' (PP# 30,933)

yellow

24-36" Z4

Jul-Sep

38ct...... 1.20 (45.60/flat)

#1 container..... 6.00

All varieties are not maintained in all sizes, but can be grown upon request.

Salvia	Zone 3/4/5-8

Meadow Sage, Wood Sage

Great for sunny borders, cutting beds, and dried arrangements. The textured foliage is often aromatic. Prefers full sun in a light acidic soil. Cutting plants back halfway at the end of June improves blooming and appearance.

Wood Sage (x sylvestris) is the result of a cross between nemorosa and pratensis. It is sold under various synonyms including S. x alpestris, S. x asperula, S. x collina, and S. x superba.

nemorosa 'Caradonna'	blue-violet	12-24"	Z 4	Jun-Sep
n. 'East Friesland' ('Ostfriesland')	violet-purple	12-18"	Z 4	Jun-Sep
n. 'Salvatore Blue'	deep blue	10-12"	Z 4	May-Sep
n. 'Wesuwe'	blue-purple	12-18"	Z3	Jun-Aug
x sylvestris 'May Night' ('Mainacht')	deep violet-blue	18-24"	Z4	May-Jun
50ct Seed .65 (32.50/ 38ct .88 (33.44/ #1 container 4.85 #2 container 10.00	,			
nemorosa 'Marcus' ('Haeumanare' PP# 13,322) n. 'Sixteen Candles' (PPAF)	deep violet blue	6-12" 24-28"		Jun-Sep Jun-Jul
38ct	flat)			

All varieties are not maintained in all sized, but can be grown upon request.

Sedum	Native	Zone 3/4/5-9
Scuum	Native	Zuile 3/4/3-7

Stonecrop



Succulent-type perennials that prefer sunny, hot areas in a loose soil with good drainage. Sedum are especially susceptible to variations in color, habit, height, etc. depending on growing conditions, light, temperature, etc. They may change color frequently throughout the season.

The Sedum genus is so large it is being subclassified or reclassified. As these come into general use, Twixwood will note them as alternate names. Other genus or subgenus names you will see include *Hylotelephium*, *Petrosedum*, *Phedimus*, *Rhodiola*, and *Sinocrassula*.

Sinocrassuia.					
	Foliage Color Flow				
'Carl' {Hylotelephium}	gray-grn magenta-pink	16-18"	Z3	Aug-Sep	
'Matrona' {Hylotelephium}	gray-grn, red stem pink	24-30"	Z3	Aug-Oct	
spectabile 'Autumn Fire' {Hylotelephium}	gray-green rose-pink	12-24"	Z3	Aug-Oct	
s. 'Autumn Joy'	gray-green pink-red	18-24"	Z3	Aug-Oct	
('Herbstfreude') {Hylotelephium}					
s. 'Neon' {Hylotelephium}	gray-green magenta	12-24"	Z3	Aug-Oct	
38ct	7.62/flat)				
#1 container 5.40	,				
Autumn Charm TM	blue grn w/wht edge pnl	x 14-18"	Z3	Aug-Sep	
('Lajos' PP# 14,421) {Hylotelephium}					
Autumn Delight TM	chartrse w/blue-grn pnk	18-24"	Z3	Aug-Sep	
('Beka' PP# 18,398) {Hylotelephium}					
ellacombianum 'Cutting Edge'	grn w/yellow edge yello	w 6-8"	Z4	Jul-Aug	
(PP# 28,926) {Phedimus}					
'Joyful' (PPAF)	green pink		Z4	Jul-Oct	
'Lime Joy' (PPAF)	gray-green red	15"	Z4	Sep	
'Peace & Joy' (PPAF)	green magenta	12-14"	Z4	Sep	
'Pillow Talk' (PP# 28,528) {Hylotelephium}	gray-grn, red stem pink		Z3	Sep	
'Plum Perfection'* (PP# 22,690) {Hylotelephium}	grn to gray to plum whit	e 6-8"	Z3	Jul-Sep	
'Rock Star' (PP# 29,036)	gray-green pink	9-12"	Z4	Aug-Sep	
rupestre 'Making Progress' (PPAF)	dk grn/red yellow	3-6"	Z4	Jun-Aug	
sexangulare 'Yellowstone' (PPAF)	chartreuse to gold yellov	v 3-6"	Z4	Jun-Aug	
'Sunset Boulevard' (PPAF)	lime-green raspberry	18-24"	Z4	Aug-Sep	
Cum amount low® Coming				0 1	
Sunsparkler® Series 'Dazzleberry'	blue-gray raspberry-pinl	6-9"	Z 3	Aug-Sep	
(PP# 22,457) {Hylotelephium}	olue-gray raspoerry-pini	0-9	23	Aug-sep	
x Sedoro 'Blue Elf'	steel-blue dark pink	3-6"	73	Aug-Sep	
(PP# 27,113) {Hylotelephium}	Blue Elf is an interspecies cross		_	0 1	
	•	Orostacitys	x seuu	111)	
72ct					
38ct 1.20 (45			ı all siz	zes, but can	
10ct	5.00/flat) be grown upon req	uest.			
#1 container 6.00	*In production. M	ay be limite	d or la	te availabil-	
See more varieties & sizes in the Groundcover Section ity in 2021.					

Stachys Zone 4-8
Lamb's Ear, Betony

Twixwood grows two quite different forms of the genus *Stachys*, each represented by different common names.

Lamb's Ear forms a clump of large fuzzy leaves and rarely flowers in the landscape. 'Helene von Stein', sometimes called 'Big Ears', belongs to this type.

Betony forms a clump of glossy green foliage and flowers profusely. Sometimes classified as *S. betonica* or *Betonica officinalis*. 'Hummelo' and 'Pink Cotton Candy' belong to this type as do Brent Horvath's two introductions from Intrinsic Perennial Gardens, 'Summer Crush' and 'Summer Romance'. *Stachys* 'Hummelo' was the 2019 Perennial Plant of the Year.

Both types of Stachys make excellent groundcovers in mass plantings.

byzantina 'Helene von Stein' (aka 'Big Ears') officinalis 'Hummelo'	purple	6-12"	Rarely
	rose-lavender	18-24"	Jul-Sep
38ct	'flat)		
x 'Summer Crush' (PP# 29,899)	pink	18-24"	Jun-Jul
x 'Summer Romance' (PP# 30,243)	purple	18-24"	Jun-Jul
38ct	flat)		

o. 'Pink Cotton Candy' (PP# 21,436) is maintained as field stock and can be grown upon request.

Stokesia	Zone 5-9
Stokes' Aster	0

Stokesia is a North American native to the wet bottomlands and pine woods of the south. Peachie Saxton of Mississippi selected this cultivar for its longer and later bloom time. Deadheading extends bloom time. May require winter protection in Zone 5.

'Peachie's Pick'	blue	12-18"	Jun-Sep
#1 container	7.05		

Vernonia Zone 4-9

Ironweed

This is an upright perennial that typically grows 2-4' tall on stiff, leafy stems which branch at the top. Narrow, linear to lance-shaped leaves up to 5" long have serrated margins. Flowers give way to rusty seed clusters. Blooms late in fall. Their purple flowers contrast nicely with the bright yellow of *Solidago* blooms. Excellent pollinator plants.

The *lettermannii* species of Ironweed is sometimes commonly called Smooth Ironweed. Generally grows taller in moist soils. The Summer Series are Chicagoland Grows® introductions selected for better performance and disease resistance.

lettermannii 'Iron Butterfly'	purple	24-36"	Jul-Sep
38ct#1 container	,		
'Summer's End' (PPAF)* 'Summer's Surrender' (PP# 28,47 'Summer's Swan Song' (PP# 28;	, 1 1	40-50" 24-30"	Sep-Oct Sep-Oct
38ct#1 container	,		

^{*}In production, may have late or limited availability in 2021.

Veronica	Zone 4-8
Speedwell	Ō

'Blue Yonder' has a light, mat forming habit, making it an excellent groundcover. Stems are almost black in color. 'Waterperry Blue' is also spreading, but with a looser habit.

'Blue Yonder' (PP# 27,284)	violet-blue	4-6"	May-Jun
'Blue Sprite' (PP# 29,581)*	violet	4-5"	May-Jun
'Kiss the Sky' (PP# 31,665)	sky blue	24"	Jun
'Spike' (PP# 27,814)	blue	12-15"	Jun
'Waterperry Blue'	lavender, blue	3-6"	May-Jun

/2ct	90 (64.80/flat)
38ct	1.20 (45.60/flat)
32ct	1.31 (41.92/flat)
24ct Standard	1.80 (43.20/flat)
10ct	2.50 (25.00/flat)
#1 container	, , ,

#1	container	6.00

Proven Winners® Magic	Show	violet-blue	14-16"	May-Jun
'Wizard of Aahs' (PP#	* 31,044)*	All varieties are not	maintained in all si	zes, but can be
		grown in these and o	ther sizes upon req	uest.

#1 container...... 9.25

^{&#}x27;Tidal Pool' (PP# 23,341) is maintained as field stock and can be grown upon request.

^{*}May have limited or late availability in 2021.

Veronicastrum	Native	Zone 3-8
Culver's Root		0
An easy to grow, tall native. Will toler Resembles <i>Veronica</i> .	ate some shade but wi	ll get floppy with too much.
virginicum 'Queen of Diamonds'	light pink	48" Jun-Jul
#1 container 7.05		
v. 'Red Arrows'*	deep violet	48" Jul-Aug
#1 container 8.20		

^{*}Twixwood has started production of this cultivar. May have limited or late availability in 2021.

Yucca	Native	Zone 4-10
Adam's Needle		0

Yucca filamentosa is a native evergreen shrub from the sand dunes and beaches of South Carolina and Florida, that has adapted well to more northerly climates. The Adam's Needle common name refers to the tall flower stalk with bell shaped flowers. The variegated foliage of the 'Color Guard' cultivar give this variety year-round interest.

filamentosa 'Color Guard' creamy white 36-72" Jun-Jul

#1 container..... 9.25

Twixwood Sales Yard



Twixwood Nursery maintains a Sales Yard at our main location for local (and sometimes not so local) customers who enjoy the one-stop shop experience. The Yard is stocked with a wide selection of Perennials, Groundcovers, Grasses, and Shrubs. We stock with a focus on popular items and our best looking Bud and Bloom, providing a small snapshot of what is available from our four farm locations. Many landscapers have designed for their jobs while shopping the Sales Yard and left with what they needed the same day.

Contact your local sales rep for more details on current yard availability. Walk-ins are always welcome.

yard@twixwood.com



Fax: 800-854-1756

www.twixwood.com

Twixwood Nursery, LLC

P.O. Box 247

Berrien Springs, MI 49103

Phone: (269) 471-7408

Fax: (269) 471-2495 or (800) 854-1756

E-mail: info@twixwood.com

Web: www.twixwood.com



Terms & Conditions

THIS LIST CANCELS ALL OTHERS.

PRICES

All prices are F.O.B. Berrien Springs, Michigan. All advance orders are booked subject to prices and availability at the time of shipment. Prices are subject to change without notice.

CREDIT ACCOUNTS

Orders are accepted on a cash, company check (personal or third party checks may not be accepted), or credit card basis only, unless a confidential credit application has been submitted and approved by Twixwood Nursery. Terms for approved credit applicants are Net 30 to customers with established credit. Allow 4-6 weeks for processing the credit application. First orders for all new customers are by pre-payment only. A surcharge of 1.5% per month (18% per year) will be applied to unpaid accounts after terms from date of shipment. Payment on account may be applied to finance charges first.

DELINQUENT ACCOUNTS

Accounts not in good standing or significantly past due may have payment terms removed. Payment terms are not automatically reinstated and may require a new credit application process.

NON-SUFFICIENT FUND (NSF) CHECKS

A \$30 charge will be assessed for NSF checks.

CREDIT CARDS

Payment by Visa, Mastercard, and Discover is accepted. Please call the accounting department during normal business hours. Credit card information is not maintained for future use unless a form is filled out and signed by the customer allowing such information to be maintained through the end of the calendar year.

CREDIT BALANCES & WRITE OFF AMOUNTS

Twixwood reserves the right to write off any unclaimed credit balances under \$10 at the end of the calendar year.

LIMITED WARRANTY*

We warrant our plants to be true to name and to be in good living condition at the time of shipment. All other warranties are specifically excluded, including but not limited to the warranty of merchantability or fitness for intended use and any warranty regarding future

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growth. Our warranty is limited to the seven day period immediately after delivery. All liability for incidental and consequential damages are excluded from this limited warranty. The following remedy applies and is your exclusive remedy: Limited warranty claims will be resolved by the replacement of defective plants only. All orders are accepted and shipments made subject to crop conditions and may be cancelled, prorated or changed based on availability at the time of shipment. (See Boxwood/Pachysandra note below.)

CLAIMS*

All plants become your property at the time of delivery. Plant claims that are covered by our limited warranty (see above, and Boxwood/Pachysandra note below) must be submitted in writing within 7 days of shipment. All honored claims will be resolved by the replacement of defective plant material only. Replacement plant material will be provided by Twixwood Nursery as soon as production plans permit and will be shipped at cost.

CHOICE OF LAW FORUM

It is agreed to by both parties that any contract for sale of goods and services made between Twixwood Nursery, LLC and the buyer is made in Michigan and shall be governed by Michigan law. Any action pertaining to such sale shall be venued in Berrien County, Michigan.

The buyer also agrees that in the event of non-payment of an overdue account, they shall be liable for collection charges, including reasonable attorney fees.

*BOXWOOD BLIGHT & PACHYSANDRA

Twixwood is a participant in the Boxwood Blight Compliance Agreement. Our stock is regularly inspected and is clean. However due to these concerns, all Boxwood sales are final and Twixwood cannot accept returned or refused plants. Pachysandra is a host plant for Boxwood Blight although the blight apparently does not adversely affect the Pachysandra itself. However because of its ability to host the blight, Twixwood may also not accept refused/returned Pachysandra.

See additional information under the Shipping Information Section

Earned Volume Discounts

EARNED VOLUME DISCOUNT PROGRAM

Twixwood's Volume Discount Program is based on payment history and on purchases of the previous year. To qualify for these volume discounts your account must be kept current and there cannot be any outstanding finance charges. Discounts removed on delinquent accounts are not automatically reinstated.

Purchased Amount	Discount
\$7,500	6%
\$15,000	9%
\$25,000	12%
\$50,000	15%
\$100,000	18%
\$150,000	21%

As noted above, discounts may be reduced for historically delinquent accounts at Twixwood's discretion.

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Shipping Information

FUEL SURCHARGE

Fuel prices are currently stable, but in the unexpected event of a spike, Twixwood reserves the right to add a fuel surcharge to cover such costs.

ROUTING & SPECIAL REQUESTS

All deliveries are subject to the scheduling of full trucks to a particular area and are routed according to the most efficient route. We make every effort to meet your requested needs, but we appreciate your understanding that this is not always possible. Please inform your customer service rep of your delivery needs, and any flexibility that will enable us to ship efficiently and keep our prices low for you.

RACKS

Twixwood primarily delivers on metal rolling racks. Racks are dropped (left on site) only at the discretion of Twixwood and with the understanding that they will be picked up with the next delivery or at another pre-determined time. Extending rack pick up as well as loss or damage to the racks can result in charges up to \$750/rack.

DETENTION FEE

Twixwood instructs our drivers to assist the customer in getting the plant material to the back of the truck for unloading. We do ask that the unloading be carried out efficiently so the driver can continue on his or her route without delaying other customers. Delays of more than 2 hours on site can result in detention charges up to \$100 per hour.

SHIPPING DAMAGE CLAIMS

All shipping damage must be noted at the time of receipt of the goods. Note any obvious damage or shortages in writing on the truck driver's invoice.

See Previous Pages for Warranty & Damage Claim Information

DELIVERY NOTIFICATION

We will attempt to notify you of deliveries one day in advance. Due to safety concerns and trucking regulations it is not always possible for drivers to notify you closer to delivery.

PICKUP

Twixwood maintains a sales yard beside the main office at 2759 East Shawnee Road, Berrien Springs, Michigan 49103. We attempt to keep it stocked with our better looking and more common items and encourage local wholesale customers to come and shop. To assure availability of specific items, please call and place an order according to the order deadlines noted on the next page. Orders not picked up within 7 days are subject to a restocking fee up to 20%.

ORDER DEADLINES

To ensure and maintain efficient and affordable freight and quality plants upon delivery, Twixwood maintains the following order deadlines. While we make every effort to service our customers, outside of these deadlines it does become much more difficult if even possible, at least without additional charges. Trucks are not routed to all areas every day. Your Customer Service Rep can assist you with determining which days are most likely to have full trucks for your area.

All Times are Eastern Standard Time

Delivery Date	Order Deadline	Additions* Accepted Until**
Monday	1 pm Thursday	6 pm Thursday
Tuesday	1 pm Friday	6 pm Friday
Wednesday	1 pm Monday	6 pm Monday
Thursday	1 pm Tuesday	6 pm Tuesday
Friday	1 pm Wednesday	6 pm Wednesday

^{*}Additions to existing orders. Adding new stops to a routed truck may not be possible.

PLANT LABELS & TAGS

We will put one variety tag in each flat, #1 and larger container. Additional tags may be available for an additional charge. Please notify your customer service representative of additional tag needs. Custom UPC sticker printing is available for an additional charge.

RESTOCKING*

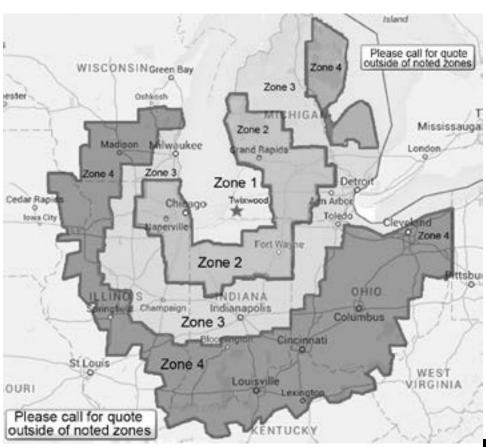
Cancellations, adjustments or postponements to orders after the order deadlines noted above can result in restocking fees up to 20% of the order.

*See previous pages regarding Boxwood Blight & Pachysandra

See additional information under the Terms & Conditions Section

^{**}Additions are only accepted if we have enough time to get them ready and there is enough room on the truck.

Shipping Zone Map



Shipping Zones

Zone	% Charge	Minimum Freight
1	5%	\$75 for Orders Under \$500
2	8%	\$75 for Orders Under \$500
3	12%	\$125 for Orders Under \$750
4	15%	\$200 for Orders Under \$1000

Freight percentages calculate on the order subtotal, after earned volume discounts are removed and before tax is added.

Shipping Zone Information Continued From Previous Page

Please refer to the map for shipping zones. Twixwood maps zones by County and Zip Code. Please call for your exact shipping zone.

Zone	% Charge	Minimum Freight	Key Cities
1	5%	\$75 for Orders Under \$500	Michigan: Holland, Zeeland, Kalamazoo, Dowagiac, Cassopolis, Niles, Saint Joseph, Benton Harbor Indiana: South Bend, Elkhart, Goshen, Mishawaka, Portage, Gary, La Porte, Valparaiso, Michigan City
2	8%	\$75 for Orders Under \$500	Michigan: Ludington, Lansing, Grand Rapids and Battle Creek Indiana: Fort Wayne, Lafayette Illinois: Kankakee, Greater Chica- goland and suburbs, Joliet, Dekalb, Waukegan
3	12%	\$125 for Orders Under \$750	Michigan: Traverse City, Saginaw, Bay City, greater Detroit and suburbs, Ann Arbor Indiana: greater Indianapolis and suburbs, Terre Haute Illinois: Urbana, Champaign, Bloomington, Peoria, Dunlap, Rockford Wisconsin: greater Milwaukee and suburbs Ohio: Toledo
4	15%	\$200 for Orders Under \$1000	Indiana: Bloomington, Evansville Illinois: Springfield, Galesburg Wisconsin: Madison, Fond du Lac Ohio: Cleveland, Youngstown, Colum- bus, Dayton, Cincinnati Kentucky: Lexington, Louisville Iowa: Davenport, Dubuque

All Areas Beyond: Calculated per order on a truckload, LTL, UPS or Fed-Ex basis.

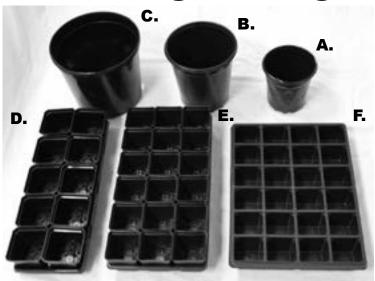
Once your order minimum is reached (\$500 in Zones 1 & 2, \$750 in Zone 3 and \$1000 in Zone 4), freight will calculate just on the percentage basis, not the percentage plus the minimum. This is an incentive to reach the minimum order amount.

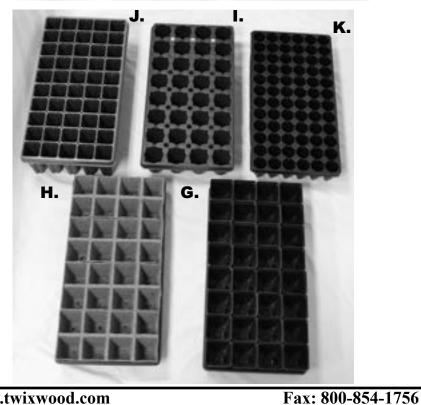
FedEx: These delivery zones and rates are based on full trucks. If trucks are not full, or for smaller orders, we may be able to send your order through FedEx and bill you accordingly.

Fax: 800-854-1756

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Package Sizing





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Container Specifications

			Approximate Dimensions				
	Size	Description	Cell			Tray	Legal Volume
			Diam- eter	Width	Depth		Legai voiume
A	#1	#1 Pot	6.50"	round	6.50"		2.50 qt / 2.37 L / Pot
В	#2	#2 Pot	8.50"	round	8.50"		6.00 qt / 5.67 L / Pot
С	#3	#3 Pot	10.41"	round	9.50"		11.16 qt / 10.60 L / Pot
D	10ct	10ct Flat	3.75"	3.75"	3.50"	7.5" x 19.9"	18.4 fl oz / 544 mL / Pot
Е	18ct	18ct Flat	3.25"	3.25"	3.50"	11.0" x 20"	16.0 fl oz / 473 mL / Pot
F	24ct Standard	24ct Standard Flat	2.75"	2.75"	2.50"	13.5" x 18"	5.8 qt / 5.49 L / Flat
G	32ct	32ct Flat	3.00"	3.00"	3.50"	10.8" x 21.2"	9.50 fl oz / 250 mL / Pot
Н	32ct Peat	32ct Peat Flat	2.25"	2.25"	2.25"	10.8" x 21.2"	5.49 fl oz / 162 mL / Cell
I	32ct Plug	32ct Plug Flat	2.00"	round	4.00"	11.0" x 21.5"	5.58 fl oz / 165 mL / Cell
*	38ct*	38ct Plug Flat	2.25"	round	5.00"	10.8" x 21.2"	6.70 fl oz / 195 mL / Cell
*	50ct Seed	50ct Plug Seed Flat	1.75"	1.75"	2.25"	11.0" x 21.2"	2.88 fl oz / 85 mL / Cell
J	50ct Plug Deep**	50ct Plug Deep Flat	2.00"	2.00"	5.00"	10.9" x 21.4"	6.59 fl oz / 195 mL / Cell
K	72ct Plug	72ct Plug Flat	1.50"	round	3.25"	10.8" x 21.2"	2.30 fl oz / 68 mL / Cell

Other sizes and variations on these tray configurations are used primarily for internal production purposes but may also ocassionally be offered for sale. Weights and measures of those can be provided upon request.

^{*38}ct and 50ct Seed flats are not pictured.

^{**}Several 50ct Plug Deep tray styles are currently in use. The one pictured and described is the one preferred by Twixwood and gneerally offered for sale.

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Notes

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Map and Directions



Directions to Twixwood: 2759 East Shawnee, Berrien Springs, MI 49103

From Chicago take I-94 East to Bridgman, Michigan. Take exit #16 ("Red Arrow"), turn right (North) and go to the traffic light. Turn right (East) onto Lake Street and go 8 miles (Lake Street will change to Shawnee Road.) The Nursery is on the left (North) after Garr Road.

From Indianapolis take US-31 North of South Bend, Indiana. Take Michigan Exit 13 for Berrien Springs. At the end of the ramp, turn right (West) onto East Snow Road. Go 1.2 miles. Turn right (North) onto Red Bud Trail. Go 1.5 miles. Turn left (West) onto East Shawnee Road. The Nursery is on the right (North), 0.6 miles. The drive is just in front of the big gray barn.

From Detroit take I-94 west to exit #30. Turn left (West) onto U.S. 31 South/East Napier Avenue. Go 2 miles. Turn right (South) onto U.S. 31 South ("South Bend".) Take Berrien Springs exit #15. Turn right (Northwest) and go to the traffic signal. Turn left (South) onto Red Bud Trail. Go 2 miles to the 4-way stop. Turn right (West) onto Shawnee Road. The Nursery is on the right (North), 0.6 miles. The drive is just in front of the big gray barn.

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