

# Capitalize on the potential fall perennials have to offer.

#### BY SONALI PADHYE AND KARL BATSCHKE

all offers a novel opportunity to bring flowering perennials to market. During this shoulder season, plant selection doesn't have to be limited to pansies and mums. There is potential to capitalize on the rising interest in perennials, as we've discovered with the great success of echinacea 'Cheyenne Spirit' and coreopsis UpTick.

The two key factors for successful selling in the fall season have been: 1) Appropriate product selection, and 2) following recipes to schedule perennials to flower for a target ship week, known as forcing perennials. In this article, our goal is to arm you with tools needed to successfully force seed and vegetative perennials for fall sales.

### **FORCING SEED PERENNIALS**

At Kieft Seed, we offer a diverse assortment of seed perennials, including more than two dozen varieties suitable for fall. Varieties with great fall performance in trials conducted by

growers as well as our own breeders include a wide range of colors and textures. For example, suitable varieties of coreopsis and gaillardia offer much-desired yellows hues; gaura and heuchera add interesting textures; and dianthus 'Rockin' Red' is a great thriller with bold color. Since forcing requirements for each of these varieties vary, a Fall Forcing Guide has been developed to aid growers (Table 1) and is available online at www.panamseed.com/ culture under the perennials tab.

The Fall Forcing Guide lists the perennial series or varieties in our assortment and provides forcing information for items suitable

for Finish Week 36 to target the Labor Day market. Note that in some classes, only select varieties are suitable for fall production. For example, coreopsis Sunfire and Sunkiss are excellent fall performers, while coreopsis Early Sunrise and Sun Up do not flower profusely under the shorter daylengths of fall, and hence, are not recommended. Similarly, some dianthus series are suitable for fall due to their heat tolerance, while others are not. Please refer to the Fall Forcing Guide for suitability of a specific series or variety.

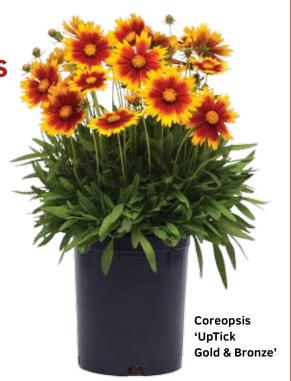
Since climates across North America vary greatly, certain regional nuances might also need to be considered to fine-tune the product assortment for your specific region. For instance, there are a handful of USDA Hardiness Zone 7 perennials listed in the guide that would not be hardy in some regions. Some climates enable dual-use of perennials as fall décor in containers and as an overwintering variety, if planted in the garden prior to frost.

## **Scheduling Guide** for UpTick Coreopsis

Gold & Bronze and Yellow & Red make beautiful displays at retail and for consumers, and are easy to finish without PGRs. These colorful coreopsis will continue flowering long into fall, hold up to rain and frost, and provide many weeks of consumer satisfaction.

Below is the scheduling guide we have used for fall flowering of UpTick coreopsis.

Stick URC	Week 23
Pinch	Week 26
Transplant	Week 28
Retail Ready	Week 34-36



# SOUTHWEST AGRI-PLASTICS, INC.





The Fall Forcing Guide gives a suggested sow week, plug size and plug grow weeks for each series or variety. We recommend bulking under short-day photoperiods for echinacea 'Cheyenne Spirit' and PowWow, lobelia Starship and rudbeckia Goldsturm. This short-day treatment is an important step to follow for success in the fall, and recommended durations for each series are included. The Fall Forcing Guide also gives finish crop time under natural daylengths and the number of plugs required for numerous pot sizes. As always, please conduct your own trials to determine the input

sizes and crop timing that are best suited to your conditions.

### PLUG & PLAY PERENNIAL COMBOS FROM SEED

Plug & Play Perennial Combos can take your fall seed offering up a notch in container appeal (Figure 1). We currently offer eight Plug & Play Perennial Combos, including six suitable for fall production: Tuscan Sun, Roman Holiday, Paris in Springtime, Amazon Rain Forest, Passion for Pompeii and Sydney Sparkler. The components, planting diagrams and growing information for each of these can be found at www.panamseed. com/plugandplay. For production guidelines of each component, please refer to the Fall Forcing Guide.

#### FORCING VEGETATIVE PERENNIALS

Many vegetative perennials that do not require vernalization can be reliably scheduled for fall flowering. These include veronica, salvia, achillea, coreopsis, echinacea, leucanthemum and many others. In areas where summergrowing temperatures are excessive, growers may want to consider purchasing a rooted liner from a northern propagator. Also, consider starting fall flowering perennials under 30 to 50 percent shade for the first three weeks until plants are well established to reduce transplant stress.

In our finishing trials in West Grove, Pennsylvania, we consistently see finishing times from a 72-cell liner in the six- to eightweek range. Quality Labor Day–flowering

### **Table 1: Fall Perennial Forcing Guide for Seed Perennials**

GENUS	SPECIES	SERIES/VARIETY	USDA HARDINESS ZONE	AMERICA* (QUICK ANNUAL CYCLE) FORCING FOR FALL (WEEK 36)					PLUGS P	ER POT		
				IDEAL SOWING WEEK	PLUG SIZE	PLUG SD BULKING REQUIRED	PLUG GROW WEEKS	FINISH UNDER NATURAL LD AND ADT 72-75*F/22-24*C GROW WEEKS	Ιατ	I GAL	2 GAL	3 GAL (FALL)
ARMERIA	pseudarmeria	Ballerina	7-9			Not recommended for Fall				- 14	ie.	1+
CAMPANULA	carpatica	Rapido	3-9			Not recommended for Fall				- 12	140	- 1
COREOPSIS	grandifiora	Early Sunrise	4-9			Not recommended for Fall			-	93	(e.,	- 10
COREOPSIS	grandiflora	Sun Up	4.9			Not recommended for Fall					17.0	
COREOPSIS	grandifiora	Sunfire	4-9	22	128	No	6-7	7	1	1-3	3-5	4-6
COREOPSIS	grandifiora	SunKiss	4.9	22	128	No	6-7	7	3.7	1.3	3-5	4-6
DELPHINIUM	elatum	Guardian	4-7			Not recommend	ed for Fall					
DELPHINIUM	belladonna	Blue Donna	5-9			Not recommend			1		12	
DELPHINIUM	grandiflorum	Diamonds Blue	4-9			Not recommend			- 3	261	12	
DIANTHUS	barbatus interspecific	Rockin' Red	4.9	22	288	No	5	8	1	3	3	4
DIANTHUS	barbatus	Dash	6	22	288	No	5	8-9	1	11	3	4
DIANTHUS	barbatus	Sweet	6			Not recommended for Fall					163	- 1
DIANTHUS	barbatus interspecific	Dynasty	6	24	288	No	5	6	1	1	3	4
DIANTHUS	barbatus interspecific	Jolt	7	19-20	288	No	5	9-10	1	1	3	4
DIANTHUS	chinensis x barbatus	Corona	5	10.10		Not recommend	ed for Fall	11110				
DIGITALIS	purpurea	Dalmatian	5-9			Not recommended for Falli					1967	
ECHINACEA	hybrida	Cheyenne Spirit	4-10	14-16	288 to 72+	Yes	11 weeks; SD from 2 to 7 true leaves	8-9	1	1	3	4
ECHINACEA	purpures	PowWow	4-10	14-16	288 to 72+	Yes	11 weeks; SD from 2 to 7 true leaves	8-9	1	1	3	4
GAILLARDIA	grandiflora	Mesa Bright Bicolor	5-10	21	288	No	5	8-9	1	11	2	3
GAILLARDIA	grandiflora	Mesa Yellow	5-10	19	288	No	5	10-11	V.	1	2	3
GAILLARDIA	grandiflora	Mesa Peach	5-10	1		Not recommended for Fall						
GAILLARDIA	grandiflora	Mesa Red	5-10	21	288	No 5 8-9			1	1	2	3
GAURA	Indheimeri	Sparkle White	5b-9	22	288	No	4	7-8	1	1	3	4
HEUCHERA	micrantha	Palace Purple	4-7	15-16	128	No	8	10-11	1	3	4	5
HEUCHERA	hybrida	Melting Fire	5-8	12-14	128	No	9-11	12-13	1	3	4	5
HIBISCUS	moscheutos	Luna	5.9	21	128	No	4	9-10	1	1	1	1
AVANDULA	angustifolia	Ellagance Purple & Pink		1	120	Not recommend	2511					
LAVANDULA	angustifolia	Lavance Deep Purple	5-8	20	128	No	6	8-9	4	3	4	5
LAVANDULA	stoechas	Bandera	7-10	1.0	120	Not recommended for Fall						
LOBELIA	speciosa	Starship	6-10	14-16	288	Yes	9-10 weeks; 10-hour SD to 6 true leaves	10-11	1	1	3	4
ORIGANUM	hybrida	Kirigami	5b-9	19-20	128	No	5	10-11	1	i	3	
PENSTEMON	mexicali	Carillo	5-7	100000	1000	Not recommend	ed for Fall	0.0502		9	16	
PEROVSKIA	atriplicifolia	Blue Steel	4.9	19-20	128	No	6-7	9-10	1	3	4	5
RUDBECKIA	fulgida	Goldsturm	3-9	8-9	288 to 50+	Yes	14 weeks; SD from 2 to 10 true leaves	12-13	ev.	1	1	3
SALVIA	nemorosa	New Dimension	4-8			Not recommended for Fall						
SALVIA	patens	Patio	8-10			Not recommended for Fall				14		
SCABIOSA	columbaria	Blue Note	5-9			Not recommended for Fall						19
SCABIOSA	japonica	Pink Diamonds	5-9			Not recommend				19-1		
VERBENA	bonariensis	Buenos Aires	7.9	18-19	128	No 8 10-11				1	2	3
VERBENA	rigide	Santos Purple	7-11	19-20	128	No	8	9-11	1	- 1	2	3

Additional culture info online panamseed.com/culture +1 530 231-1400 SD = Short Day (12 hours or shorter, except Lobella is 10 hours) LD = Long Day. ADT = Average Daily Temperature
\*Schedule indicated is based on Midwest Region of the United States trial data and may change based on your local/regional climate. Please trial to re-confirm limits crop
times before beginning commercial production. \*\*If yes, supplemental long day lighting should start after transplanting unit visible bad or visible knot stage.

perennials can be planted in Week 28 for a Week 36 finish. Our 2016 scheduling trial results can be found online at www. darwinperennials.com/culture.

Fall is a great time to establish perennials in the garden in regions where USDA Hardiness Zone is 6 or higher. In these areas, plant root systems have time to develop before short days and cold temperatures settle in and therefore overwintering reliability increases. For regions Zone 5 and colder, establishment time is more restricted and perennials planted after mid-August may struggle to establish before frost. In these colder northern regions,

perennials serve as wonderful textural and color palette additions to fall porch and patio decorating right alongside mums and other traditional fall flowering plants.

Whether used as new additions to a perennial garden, or colorful accompaniments to porch and

patio decorating, perennials provide long-flowering and frosthardy alternatives for growers, retailers and consumers. New varieties and cultural research provide growers with all the tools necessary for successful fall perennial programs. 9PN

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