Low maintenance bedding plant annuals

"The easiest way to have a low-maintenance flower bed is to select flowers that essentially take care of themselves," says Terry Humfeld, executive director of the Professional Plant Growers Association.

Some annuals need regular grooming, others do not. To stimulate continuous blooming (from late spring through early fall), it may be necessary to cut back or pinch off existing blooms ("dead-head") once they begin to fade. Marigolds, snapdragons and zinnias need to be regularly dead-headed. However, ageratum, alyssum, begonias, impatiens, portulaca and vinca don't need dead-heading.

Some annuals need to be pruned to become bushy or to avoid becoming spindly, while others are naturally basal branching.

For example, grandiflora petunias, snapdragons and zinnias should be cut back to stimulate lateral branching, preferably when they are being transplanted. However, because multiflora petunias,



nicotiana, pansies, verbena and vinca naturally remain bushy, they save time by not needing periodic pruning.

Humfeld suggests these steps to make annuals easier to care for:

 Transplant species requiring similar moisture requirements into the same flower bed.

2) Match each species to its optimum light requirement.

3) Mulch soon after the bedding plants have been transplanted.

4) Plan your design and keep it simple. For easy-to-maintain flower beds, con-

sider using the 20 types of flowering plants recommended by the PPGA in the accompanying chart.

-For more information on bedding plants, write or call the Professional Plant Growers Association, P.O. Box 27517, Lansing, MI 48909-0517; (517) 694-7700.

Pansies are a time saver; they require little or no periodic pruning.

TOP-SELLING BEDDING PLANTS FOR 1992

Species	Spacing	Height	Light	Moisture	Colors
Sweet alyssum	10-12"	3-5"	partial shade to sun	avg. to dry	white, pinks/roses/peaches, purples, vellows
Begonia (fiborus)	7-9"	6-10"	partial shade to sun	average	white, pinks/roses/peaches lavenders, oranges, reds, bicolor
Dusty Miller	6-8"	8-10"	partial shade to sun	dry	silver
Geraniums	10-12"	10-15"	sun	moist	white, pinks/roses/peaches lavenders, oranges, reds, yellows, bicolor
Impatiens	8-10"	6-18"	partial shade to sun	moist	white, pinks/roses/peaches, lavenders, oranges, reds, bicolor
Impatiens	10-12"	10-18"		moist	white, pinks/roses/peaches, oranges, reds, bicolor
French marigolds	3-6"	5-10"	sun	average	yellows, golds, oranges, bicolor
Pansies	6-8"	4-8"	partial shade to sun	moist	white, pinks/roses/peaches, purples, oranges, yellows, blues, browns
Petunias	10-12"	6-12"	sun	avg. to dry	white, pinks/roses/peaches, lavenders, reds, purples, vellows, bicolor
Salvia	6-8"	12-24"	partial shade to sun	avg. to moist	white, pinks/roses/peaches, reds/burgundy, purples, oranges
Tomato	12-15"	24-72"	sun	average	(fruit), reds/burgundy, oranges, yellows
Vinca	6-8"	12-14"	partial shade to sun	any	white, pinks/roses/peaches, bicolor
				Sour	ce: Professional Plant Growers Assn.

Landscape Management, July 1992 11

We're talking about a control program that's very hard on fungus, yet very easy on your turfgrass. Some things you can do to reduce turf stress, use

less fungicide and still get an excellent level of control.



It starts with cul- Rubigan controls all five patch distural practices. Like replanting disease-prone areas with resistant

eases, making diagnosis less critical. which means you can use less

fertilizer. And removing thatch. They'll make your turf less susceptible to disease,

cultivars. Careful water-

ing. Providing adequate

a stranglehold on fungu



fungicide to protect it.

Knowing when to use a fungicide is important, too. By watching for conditions in which turf diseases thrive (weather patterns and soil temperature fewer applications.

results can

be devastating.

And, of course, it helps to choose your fungicide carefully. Fungus attacks plants from within, The lasting Rubigan*

fungicide is a very

<u>Pest Management</u>. It also contains complete "how to" information on tactics you can use to control weeds and insects more responsibly. For a free copy just return the coupon below, or call our toll-free tele-

provide some very reliable signs), you can put down fungicide with perfect timing, and make



good choice. It controls 14 diseases, including dollar spot, necrotic ring spot and summer patch. It's very easy on your turf. And it lasts longer than other fungicides, which

inder, gentler way to get

phone number. And learn some very nice alternatives to applying a lot of

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Rubigan

<u>A Short Course On Preventing</u> ______Dollar Spot.____

Leading universities recommend the following cultural practices to protect your turf from dollar spot. Eliminate excess thatch. Provide proper aeration. Increase nitrogen. Remove dew and water deeply

a for

and infrequently in the early morning (taking steps to keep your turf dry reduces the risk of dollar spot).

fungicide.

means you don't have to apply it as often.

For brown patch, you can use Broadway* fungicide. Its two modes of action provide excellent brown patch control. It also controls a dozen other turf diseases. It's easy on your turf. And its long-lasting action means fewer applications.

Of course, there's a lot more to fungus control than what we could fit in this ad. You'll find it in our 44-page book, <u>The Turf</u> <u>Manager's Guide To Responsible</u> Rubigan and Broadway last longer than other fungicides, so you don't have to apply them as often.

Send me the following Management Guide(s): Cool Season, Warm Season, Nursery and Landscape, Mail To: DowElanco, P.O. Box 3064, Cedar Rapids, IA 52406, Or call *1-800-*729-3693 ext. 2492.

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The chemistry is right."

COLORFUL LANDSCAPE PERENNIALS

Variety	Height	Spacing	Comments	Colors
Pentas	10-36"	20"	Pest resistant, good color to soften a group planting. Will survive freeze if cut back be- forehand. Heavy feeder, likes water, low maintenance. Year- round color without replant.	white, pinks, roses, mixes, lavender
Melampodium	6-12"	15"	Drought tolerant, sheerable, low fertilizer, low mainten- ance, upright. Good accent color. Lasts 5 months.	yellow
Dwarf hibiscus	8-15"	24"	Low, compact plant. Likes water until established. Low maintenance. Pest: whitefly.	reds, yellows
Crossandra	8-15"	15"	Heavy feeder. Drought resis- tant after established. Survives freeze if covered. Low mainten- ance, uniform height	oranges, yellows
Lantana	10-24"	24"	Very low maintenance, low fer- tility, drought tolerant, sheer- able.	creams
Verbena 'Polaris'	10-36"	15"	Drought tolerant, responds to sheering, heavy feeder. Pest: whitefly.	lavenders
Salvia 'Uglinosa'	15-36"		Good perennial. Drought toler- and. Responds to sheering. Heavy feeder.	blues

Source: Post Properties, Atlanta, Ga.

TREES/FALL COLOR

Common name Japanese maple Kousa dogwood Sweetgum Sassafras Viburnums Norway maple Beeches Tulip tree Star magnolia Shrubs, vines Glossy abelia Chokeberries Cotoneaster Bayberry Virginia creeper Witchhazels St. Johnsworts Spicebushes

Latin name Acer palmatum Cornus kousa Liquidambar styraciflua Sassafras albidum Viburnum spp. Acer platanoides Fagus spp. Liriodendron tulipfera Magnolia stellata

Abelia x grandiflora Aronia spp. Cottoneaster spp. Myrica pensylvanica Parthenocissus quinquefolia Hamamelis spp. Hypericum spp. Lindera spp.

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Source: Jo Mercer, Univ. of Delaware extension



Mother Nature severely tested NuStar before its discovery.

Jacklin Seed Company found the mother plant of its NuStar Kentucky bluegrass in the unlikeliest place — a roadside in eastern Washington 40 miles from civilization. An environment so arid that less than ten inches of precipitation fell each year. NuStar was green — all other plants around it were brown from drought.

After years of official testing at Rutgers University, NuStar passed with flying colors. In fact, this moderately dense, dark green bluegrass ranked in the top ten out of 228 varieties in overall turf quality during the Rutgers trials. NuStar received top marks against powdery mildew and summer patch, plus excellent resistance to leafspot, melting out and leaf rust. NuStar also scored high against wilting due to drought.

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You might think using less insecticide means you'll have to put up with more insects. But that's not necessarily the case. Because *how* you use your insecticide is as important as *how much* you use. With the right tactics, you can use a lot less and still get excellent results.

Here's an example. Mixing insecticide with insecticidal soap can reduce the amount of insecticide you need on your ornamentals by about 50 percent. Soap controls most soft-bodied insects and mites. By adding insecticide, you'll also take care of tougher insects, like scales and worms. University studies suggest you may get better control

A few ways to bala with your love for the env





Studies show that Dursban delivers better chinch bug control at lower rates than other insecticides. than you get with insecticide alone. Knowing exactly when to apply insecticide helps, too. One way to monitor mole crickets, chinch bugs, webworms and cutworms is by mixing 11/2 oz. of dish soap in two

gives you so much control at such a low rate. Dursban also controls fire ants. It's available in watersoluble packets. And it can be bio-monitored, which can reduce the likelihood of over-exposure.

nce your hate for inse gallons of water and sprinkling it on a four-foot area of turf. If eggs have hatched, this soapy mixture will flush insects to the surface, and you can apply insecticide

Under Your Skin?

University studies show that Pageant DF* insecticide (which contains the same active ingredient as Durshan) provides excellent mole cricket control. Apply two weeks after egg hatch and irrigate turf 24 hours before and after application. This moves mole crickets near the soll surface and



washes Pageant into the zone of insect activity.

Mole Cricket

accordingly.

Your insecticide itself can also make a difference. After all, different insecticides work at different rates. Which is why Dursban* insecticide could be your best choice.

Just one pound active ingredient per acre controls a host of problem insects. No other insecticide

Now, we realize you probably have some questions. That's why we created The Turf Manager's Guide To Responsible Pest Management. It's 44 pages packed with compre-

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hensive information on the latest techniques for controlling insects. weeds and

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Durshan is available in liquid, dry flowable, granular and fertilizer formulations. "Trademark of DowElanco. ©1992 DowElanco. 07



Turf pros can't flunk if they test clients' soils

A basic soil test gives the landscape manager a fertility blueprint and opportunity for profitable add-on offerings.

• Soil testing is a valuable part of landscape management. Golf course superintendents have known this for years.

Increasingly lawn care business owners are embracing soil testing too.

They're rediscovering (ChemLawn has long made client soil tests a part of its programs.) how much customers value soil tests. From an agronomic standpoint, soil tests of clients' properties—once every three years is probably adequate—allows a lawn/landscape company to offer a more precise fertility program.

Regularly offering professional soil tests can help lawn/landscape business people accomplish two goals:

•retain more of their present customers,

•increase revenues from substantially more customers.

It's surprising, then, how few lawn/landscape professionals routinely *sell* soil tests for client's properties, particularly in light of the modest cost and time required.

This is a service that many lawn care customers say they value. They realize that most soils aren't perfect for growing acceptable turfgrass.

Poor turf common—This is evident in the latest Pennsylvania Turfgrass Survey. Home owners and even lawn care companies listed "poor soil" as *the* worst problem they face.

Yet, while more than half the golf course superintendents in the survey listed soil testing as one of the cultural practices they regularly use in turfgrass management, professional lawn providers barely mentioned it.

A basic soil test can reveal a lot; it can tell whether the soil is acid or alkaline, and shows whether levels of potassium and phosphorus are deficient or acceptable. More complete test measures other nutrients and micro-nutrients too. (The amount of available nitrogen in the soil can change rapidly so tests for N aren't really needed.)

An informal survey by LANDSCAPE MANAGEMENT suggests that many lawn professionals build their turf fertilization programs on university recommendations. Or on what competitors do. Or can sell?

They test the soil on a client's property only when there's a turf problem, a persistant problem. On receiving the analysis of the soil on that property, they often assume that all (or most) soils in that neighborhood are pretty much the same. Then they use the same fertilization regimen on them all.

Why guess?—This is guessing, even though it usually gives acceptable results on most lawns, says Dr. Chuck Darrah, consulting turfgrass agronomist and general manager of CLC LABS, Columbus. Even so, soils can be markedly different within a community. They often vary from the backyard to the frontyard of a single property.

By not including soil tests as part of their service—a service that a client pays for either as an add-on service or built into the total cost—lawn care business people are seemingly working against their own bottom lines. They're passing up opportunities to provide legitimate and, perhaps, badly needed remedial services to at least some of their customers, says Darrah.

Likely, they're wasting product too. A prescription fertility program developed from an understanding of the soil on a client's property results in stronger turfgrass. Healthier turfgrass withstands environmental stresses, insects and/or diseases better than struggling turfgrass.

Apart from vital agronomic information, a soil test can also be a powerful marketing tool. It provides lawn professionals with expert documentation, from an independent source if a lab is used, to justify the value of their services to clients.

The valuable information gained from soil testing can and should be shared with clients to reaffirm their choice of the lawn professional as *their* lawn professional.

Taking a soil sample is simple

Some turf professionals test client soils themselves. They possess the equipment, expertise and time to do this. Typically they start by determining soil pH. Then they measure such nutrients as phosphorus and potassium.

Most lawn/landscape businesses, however, find it more convenient and cost effective to mail soil samples to a testing facility. This is relatively simple procedure, produces consistently reliable reports, and is surprisingly inexpensive.

Soil samples can be mailed either to a commercial laboratory or one at their state university. Generally, the cost is about the same.

Consult with local extension personnel, a nearby golf course superintendent, or contact the state university extension department. Then contact the laboratory to see if it has any special requirements before sending your soil samples.

To take a soil sample you need only a soil probe (available from most lawn/garden suppliers), a clean bucket, and soil sampling supplies, usually supplied by the testing lab:

a) At ground level (not thatch level) take 10 to 15 plugs (2 to 2-1/2 inches deep) from different areas of the lawn. The larger the lawn, the more samples you should take. On most lawns, it probably won't take more than five minutes to actually take the samples.

b) Don't take samples from areas where fertilizer or lime have spilled or from poorly drained areas. Either the spring or the fall, prior to fertilizing, are excellent times to take samples.

c) Keep records of how and where you took samples. Mix them together in the bucket, and then dry the soil samples. (Samples of obviously different soils in a particular sampling area should be put in individual paper bags and appropriately marked.)

d) Place one cup of the mixed soil in a container. Mark your name, address and sample number on the container for your records.

e) Provide the laboratory with the most precise information you can about plant growth in the sampling area.

f) Once you've found a lab that gives you accurate, predictable and understandable test data, stick with it so the results you get from test to test are consistent.

all

Professional do-it-yourself soil test kits

Company	Name of soil tester	Purpose	Comments
ELE International Inc. Soiltest Products Div.	A-6A Soil Test Kit	Measures available nutrients and pH of agricultural soils.	Comes with 60-page soil handbook, inexpensive refill kits available.
86 Albrecht Drive, Lake Bluff, IL 60044 (708)295-9400 Circle No. 310	A-7A Combination Kit	On-site tests for complete diagnosis of soil fertility.	Rugged carrying case, booklet included, 23 lbs.
	Nitrates, Phosphorus, Potassium, pH kits, Soil Texture Set	Kits for specific chemical analysis. Classify soils according to clay-silt-sand content.	Soiltest, Inc., has a com- plete line of soil testing kits and apparatus.
Kel Instruments Co., Inc., P.O. Box 54, Wyckoff, NJ 07481 (201)847-8353 Circle No. 311	Kelway® Soil Acidity and Moisture Tester Model HB-2	Measures soil acidity and moisture content. Tells when to add lime; provides guide for how much to add.	Requires no chemicals. Needs no battery or other power source.
	Kelway® Model SST	Soluble salts tester.	Fast readings of conductivity of a soil solution.
LaMotte Company PO Box 329, Chester- town MD 21620	Soil pH meters	Determines lime requirement of soil.	Three meters: analog, digital, Pocketester
(410)778-3100 Circle No. 312	Turf lab field units (4 models)	Colormetric analysis of turf soils.	Can be used in field or lab. LaMotte Soil Handbook furnished.
	Electronic soil lab, Model DCL-12	Tests for 15 soil factors including available forms of macronutrients, micronutrients.	The DC-1600 Colormeter instantly analyzes color reactions developed in nutrient tests.
	Dissolved salts meters	Conductivity reading of soil extract can be converted into readinging of total dissolved salts	Three meters: analog, digital, Pocketester.
Spectrum Techno- logies, Inc., 12010 S. Aero Drive, Plain- field, IL 60544 (PL5)456, 4440	Soil & water pH meter	On-the-spot meter to determine pH of soil and/or spray water.	LCD digital display. Power by 2 CR-2025 lithium batteries. Weight 40 grams.
Circle No. 313	Cardy NO3, K+, & Na+ meters	Measures nitrate, potassium, and sodium.	Standard accessories: case, deionized water, sampling sheet, kit for 15 soil samples.



Results of a soil test must be easy to interpret and should make recommendations to optimize a fertilization program, says Charles Darrah (right), CLC LABS, Columbus.



Joe Popovic, (left) owner of Firelands Lawn Care, Norwalk, Ohio, says soil tests provide valuable information to share with clients.



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It doesn't take much these days for a rosy profit picture to wither on the vine. Just a few call-backs from valued customers and a couple of costly replacement jobs could do it. That's why so many landscape professionals are protecting their reputations and their bottom lines with CHIPCO* ALIETTE* and CHIPCO* 26019 fungicides.

CHIPCO* ALIETTE* brand tackles Phyto-

phthora root rot and Pythium with powerful systemic action that puts long-lasting control inside roots and leaves. And CHIPCO* ALIETTE*, now available in a new, more convenient WDG formulation, provides two-way disease protection: First, by directly attacking disease organisms; and then, by helping plants build up their own defense mechanisms.

