

THE PESTICIDE PIPELINE

A glimpse at the products chemical manufacturers have released recently and plan to bring to market during the next three years

With the economy in a full-blown recession, rounds down and budgets flat, golf course superintendents are under as much pressure as ever to keep spending in check. Their chemical budgets are no exception, and when expenses are a concern, it behooves a buyer to have as much information as possible about what products are coming down the pike. The *Golf Course Industry* staff contacted the market's major manufacturers of basic and generic pesticides to find out what they're bringing to market the next several years. Though some of them were tight-lipped about specifics, here's what they would share about recently released products and what's to come. — Marisa Palmieri

Editor's note: The following manufacturers were contacted for the article but declined to participate or didn't respond to requests for information: Advan, AgraQuest, Amvac Environmental Products, Bell Labs, Biosafe Systems, Cheminova, FMC, Gowan, Regal Chemical, Petro Canada and SePro.

Pesticide type	Manufacturer	Product name	Active Ingredient	Targeted pests	Released/expected release
HERBICIDES	Arysta LifeScience	TBA	Amicarbazone	<i>Poa annua</i> on bentgrass greens	Q4 2009 or Q1 2010
	Arysta LifeScience	TBA	Flucarbazone	Broadleaf weeds	Q4 2009 or Q1 2010
	Bayer Environmental Science	TBA	TBA	TBA	2010
	DuPont Professional Products	TBA	TBA	TBA - broad spectrum	TBA
	PBI/Gordon	TBA	TBA	Sedges	TBA by 2012
HERBICIDES, AQUATIC	Phoenix Environmental Care	Avocet PLX	Glyphosate	Various emergent and floating aquatic plants, terrestrial and ditchbank woody brush, grasses and weeds on shorelines, landscapes and in turf or noncrop areas	Q1 2009
	Valent	Clipper	Flumioxazin	Aquatic weeds including watermeal, cabomba, duckweed, water lettuce and others.	Q2 2010
	Valent	Tradewind	Bispyribac	Aquatic weeds including hydrilla, milfoil, water hyacinth and water lettuce and others	Q3 2010
HERBICIDES, POSTEMERGENT	BASF Turf & Ornamentals	TBA	TBA	TBA	TBA
	Dow AgroScience	LockUp	Penoxsulam	Broadleaf weeds, including dollar weed, white clover, kyllinga and English lawn daisy	2009
	Dow AgroScience	Sapphire	Penoxsulam	English lawn daisy in California, Washington and Oregon	Q4 2008
	Monsanto	Roundup ProMax	Glyphosate, N-(phosphonomethyl)glycine, in the form of its potassium salt	Annual and perennial weeds, woody brush and trees	Q4 2008 (except California)
	Quali-Pro	TBA	TBA (proprietary)	Postemergent weeds	TBA – approximately 2012
	Valent	TBA	Imazosulfuron	Sedges (annual and perennial) and some broadleaf weeds	1st Quarter 2010

TBA – to be announced

Pesticide type	Manufacturer	Product name	Active ingredient	Targeted pests	Released/expected release
HERBICIDES, PREEMERGENT	BASF Turf & Ornamentals	Tower	Dimethenamid-P	More than 50 weeds, including yellow nutsedge, annual sedges, carpetweed, bittercress, purslane, crabgrass, goosegrass, barnyardgrass, doveweed and others.	TBA
	Cleary Chemical	Agule 65 WDG	Prodiamine	Preemergent grass and selected broadleaf weeds	Q3 2010
	Phoenix Environmental Care	StarFighter	Oxidiazon	Most grasses and some broadleaf weeds	Q1 2009
FUNGICIDES	BASF Turf & Ornamentals	TBA	TBA (class of chemistry not widely used in the golf market)	Dollar spot, brown patch and others	TBA
	Bayer Environmental Science	TBA	TBA	TBA	2009
	Bayer Environmental Science	TBA	TBA	TBA	2009
	Cleary Chemical	3336 70 EG	Thiophanate-methyl	Anthrachnose, dollar spot, brown patch and others	Q2 2009
	DuPont Professional Products	TBA	TBA	TBA	TBA
	PBI/Gordon	TBA	TBA	TBA	TBA by 2012
	Phoenix Environmental Care	Pegasus HPX	Chlorothalonil	Dollar spot, brown patch, anthracnose, red thread, gray snow mold and leaf spots	Q1 2009
	Phoenix Environmental Care	Verio	Metalaxyl	Pythium and other root diseases	Q2 2009
	Syngenta Professional Products	TBA	TBA (class of chemistry: strobilurin)	TBA	TBA – registration pending
INSECTICIDES	Agrisel	ImidaPro 2F; Imida Pro 5	Imidacloprid	Aphids, grubs, beetles, borers, lacebugs, psyllids, thrips, scales, pine tip moths, black vine weevils, adelgids, billbugs, northern masked chafer, mole crickets and chinchbugs	Q4 2008
	DuPont Professional Products	DuPont Acelepryn granular	DuPont Calteryx	White grub species, annual bluegrass weevil, billbugs, caterpillars and others	Q4 2008
	DuPont Professional Products	TBA	TBA (class of chemistry: anthranilic diamide)	TBA	TBA
	PBI/Gordon	TBA	TBA	TBA	TBA by 2012
NEMATACIDES	Quali-Pro	TBA	TBA (proprietary)	Nematodes	TBA – approximately late 2011

TBA – to be announced

COMBINATION PRODUCTS

Pesticide type	Manufacturer	Product name	Active ingredient	Targeted pests	Released/ expected release
FUNGICIDE COMBINATIONS/ PREMIXES	Arysta LifeScience	Disarm T; Disarm M Premix Fungicides	Fluoxastrobin + tebuconazole; fluoxastrobin + myclobutanil	All major patch, spot and snow mold diseases	Anticipated Q4 2009 or Q1 2010
	Cleary Chemical	Spectro 90 EG	Chlorothalonil + thiophanate-methyl	Anthrachnose, bentgrass dead spot, bluegrass stem rust, brown patch, dichondra leaf spot, dollar spot, downy mildew, fusarium blight, fusarium patch, gray leaf spot, gray snow mold, pink snow mold, red thread, algae and others	Q1 2010
	Syngenta Professional Products	TBA	Azoxystrobin + chlorothalonil	Brown patch, gray leaf spot, dollar spot, large patch, leaf spot and anthracnose	TBA
HERBICIDE COMBINATIONS	Bayer Environmental Science	TBA	TBA	TBA	Late 2009
	Dow AgroScience	TBA, LockUp combinations	Penoxsulam + 2,4-D + dicamba	Broadleaf weeds	2009 or 2010
	Nufarm	4-Speed; 4-Speed XT	2,4-D 2EHE + MCPP + dicamba + pyraflufen; 2,4-D 2EHE + triclopyr + dicamba + pyraflufen	Broadleaf weeds, including white clover, buckhorn plantain and dandelion	Anticipated registration Q1 2009
	PBI/Gordon	TBA	TBA	Broadleaf weeds, including wild violet	TBA by 2012
INSECTICIDE COMBINATIONS	DuPont Professional Products	Fertilizer with DuPont Acelepryn	DuPont Calteryx	White grub species, annual bluegrass weevil, billbugs, caterpillars and others	Q2 2009

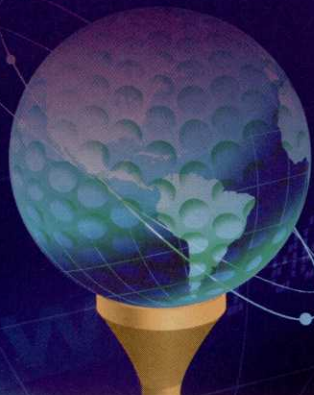
TBA - to be announced

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