

New options gain clearance for weed control this season

By JOHN VOGEL

A NUMBER of new weed control options have opened up for 2006. Most of them, though, come via expanded product label changes, report Extension weed specialists at Cornell and Penn State.

Following are the new products and formulations that have gained clearance in the past year for most Northeast states, according to Penn State's Dwight Lingenfelter and Bill Curran. Since label approval is slower than most in New York state, Cornell's Russ Hahn has reviewed them. Products not cleared for New York are noted with an asterisk (*).

New for corn

■ **Impact* 2.8SC** (AmVac) is a new active ingredient (topramezone) similar to Callisto and can be used in field or sweet corn. Limited amounts may be available in 2006.

It's a pigment inhibitor that can be either pre- or post-applied up to 45 days before harvest. Broadleaf activity is similar to that of Callisto, but it has better grass activity. It controls lambsquarters, pigweed, velvetleaf, ragweed, giant foxtail, barnyardgrass and crabgrass.

Tankmixing is advised with atrazine to improve weed control spectrum and optimize efficacy. With 0.5- to 1.0-pound atrazine, Impact effectively controlled triazine-resistant lambsquarters, common ragweed and velvetleaf. Do not tank mix with Callisto or Balance.

Small grains can be planted three months after application and soybean and alfalfa after nine months. Herbicide carryover and crop injury may be an issue in certain areas with sensitive crops.

■ **Radius* 4SC** (Bayer

Key Points

- New products for corn promise better control of weeds.
- Four soybean products have new or revised labels.
- Rotate glyphosate herbicides with other control practices.

CropScience) is a premix of Balance Pro* and Define* that's available for 2006. It's similar to Epic, which is being phased out, but contains less Balance and more Define.

Atrazine is a logical tankmix mate to increase its control spectrum as a preemergent before corn emergence. Radius controls lambsquarters and pigweed (triazine- and ALS-resistant), velvetleaf, ragweed, smartweed, black nightshade, foxtail, crabgrass and fall panicum. It's weak on yellow nutsedge, cocklebur and annual morningglory.

■ **Resolve 25DF** (DuPont) contains rimsulfuron, a component in Steadfast and Basis. It can be tank mixed with full or reduced rates of most corn herbicides.

Tankmixes with atrazine and Balance Pro applied pre-emergence have provided good weed control. Resolve can be applied postemergence to corn up to 12 inches tall or the six-collar growth stage. It's primarily used in post-applications as a tankmix partner with glyphosate products in Roundup Ready corn systems to boost annual weed control and provide residual activity. Wheat can be planted four months after application; soybeans, alfalfa, sweet corn and snap beans, after 10 months.

Pending labels for corn

■ **Autumn* WDG** (Bayer CropScience) contains idosulfuron, an active ingredient in Equip. It'll be primarily used as



a fall burndown before corn to control winter annual weeds.

■ **Stout* DF** (DuPont) contains Accent and Harmony GT, and controls several annual grassy and broadleaf weeds in field corn. Applied to corn up to 16 inches tall (V5 stage), tankmixes will be allowed. Crop rotation restrictions will be similar to Accent's.

Stout will be positioned to compete with Option for re-sprays on field corn. Look for it to be available for the 2006 growing season.

New for soybeans

■ **Canopy 75DF** (DuPont) is making a comeback. This Classic and Sencor premix provides good control of many annual broadleaves including lambsquarters, pigweed, smartweed, velvetleaf, cocklebur, jimsonweed, prickly sida and common ragweed.

Canopy's new label includes regional adjustments for better use rates and rotation restrictions, updated tankmix options, and more species to the list of weeds controlled. Otherwise, it can be used as in the past.

■ **Canopy EX 29.5DF** (DuPont) is a Classic and Express premix, for fall or early-spring burndown and

residual control of common winter annuals in no-till or conservation-tillage fields. For best burndown, add 2,4-D ester. It'll control many winter weeds including common chickweed, purple deadnettle, henbit, shepherdspurse, yellow rocket, pepperweed, bittercress, speedwell and dandelion.

Don't apply Canopy EX within 45 days of soybean planting. Be cautious of crop rotation restrictions: three months for small grains and pasture grasses, nine months for field corn and sorghum, 12 months for alfalfa and clovers, and 18 months for sweet corn.

■ **Select Max 0.97EC** (Valent) is a clethodim product with new adjuvants to boost grass control compared to Select. It controls many annual and perennial grasses. Primary use will be in Roundup Ready soybeans for post-application control of volunteer Roundup Ready corn. No additional surfactants are needed if tank mixed with a glyphosate product already loaded with adjuvants. Some Select Max may make it to the Northeast in 2006.

■ **Synchrony XP 28.4DF** (DuPont), a Classic plus Harmony GT premix, got a major label overhaul with

Glyphosate: Use it right to keep it

PROPER management of glyphosate and other herbicides is critical for continued usefulness in the future. Reason: The list of glyphosate-resistant weeds is growing and spreading every year. Consider these recommended management practices:

■ Rotate glyphosate with non-glyphosate herbicides; if possible, don't use more than two applications of a glyphosate-based herbicide in a field over a two-year period.

■ Use tank mixtures or alternative herbicides for burndown in Roundup Ready crops requiring more than one over-the-top glyphosate application.

■ Plant conventional rotational crops following RR crops and using non-glyphosate herbicides.

■ Follow good crop management practices to ensure competitive crops, and include nonchemical weed control tactics when possible.

Note: Gramoxone Inteon 2L is Syngenta's new formation with added safety features and a 10X reduction in oral toxicity. It's slightly thicker than Gramoxone Max; the odor is less offensive, and it's a 2 pound per gallon formulation. Two pints per acre of Gramoxone Max equals 3 pints per acre of Gramoxone Inteon.

better defined uses and restrictions in STS and non-STS soybeans, updated information on its use as a spring burndown and/or preemergence treatment, modified rate changes, weed claims and tank mixture options.

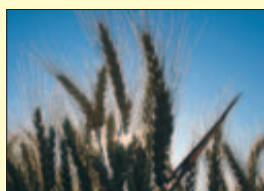
You'll find a roundup on new products on the Web at www.AmericanAgriculturist.com.

More new products get labeled for small grain, pasture, CRP

New for small grains

■ **Osprey* 4.5WDG** (Bayer CropScience) is an ALS-inhibitor containing mesosulfuron. It's labeled for wheat and primarily targeted for control of annual ryegrass, including Hoelon- (ACCase) resistant biotypes. ACCase-resistant ryegrass has been a problem in Maryland and Virginia.

Osprey has activity on annual bluegrass and suppresses common chickweed, henbit and pigweed. Its label was recently revised to cover frost-injury concerns shortly after application to actively



growing wheat. Other changes relate to adjuvant recommendations and clarify that the fertilizer spray carrier shouldn't exceed 15% liquid nitrogen.

New weed killers

Three new products promise help for controlling weeds

in pasture and Conservation Reserve Program ground. Here's what Penn State's Dwight Lingenfelter and Bill Curran have to say about them. Two are labeled for New York, notes Cornell's Russ Hahn.

■ **Milestone* 2L** and **ForeFront* R&P** (Dow Agro-Sciences) are pasture and CRP herbicides containing a new active ingredient called aminopyralid. Milestone is the single active ingredient and ForeFront R&P also contains 2,4-D.

Aminopyralid is a low-rate plant growth regulator related to cypofluralid (Stinger) and triclopyr (Garlon). Benefits include very

low toxicity to birds, fish, mammals and aquatic invertebrates. There are no grazing restrictions, and it's not a restricted-use pesticide.

Milestone provides systemic broadleaf control of several problem weeds including most thistles, dock species and solanaceous weeds (e.g. horsenettle) to name a few.

Penn State characterizes it as a broad-spectrum product with some residual control and good forage grass safety. More aminopyralid-containing products will become available for wheat and barley.

■ **Outrider 75WDG** (Mon-

santo) contains sulfosulfuron and is labeled for post-emergence use in noncrop areas including CRP and native, warm-season perennial grasses. It controls many annual and perennial weeds including downy brome, buttercup, chickweed, horseweed, Johnsongrass, mustard, ragweed, smartweed, quackgrass and yellow nutsedge. Watch rotation restrictions; many crops can't be planted for up to 22 months after application.

Note: Products not cleared for New York are noted with an asterisk.