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MARYLAND WEED REPORTER

With the 2005 cropping season upon us, I thought that I'd bring everybody up to date on the changes we've made or are expecting this season.

Extension Bulletin 237, Pest Management Recommendations for Field Crops, has been updated. Both Arv and Galen, as well as myself, have made it a point to keep our sections current on a yearly basis. With the way the editing system exists, we can actually make changes to the on-line version of the book whenever we want. **The Weed Control section is interactive.**

If you get into the book on-line, and go to my section, there is actually a tutorial to help you understand how to use the interactive part. **The interactive parts involve the corn, forages, pasture and soybean sections of the weed control section.** What is really great are the efficacy tables. You can input the type of treatment you want to make followed by the weed problem(s) and hit enter. What you get is a list of the best to worst recommendations for your particular problem. If you haven't tried this yet, please do. It's a lot of fun. We will continue to offer on-line, PDF, and hard copies of the book for awhile.

Corn

Nothing new to report in terms of new products for use in corn. We will see Syngenta introducing their new blend of Dual II Magnum + atrazine + Callisto called **Lexar**. I mentioned this in my last newsletter, but will show the comparisons again

Medium soil rate	Dual II Magnum	Atrazine	Callisto
Bicep II Magnum (2.1 qt/acre)	1.32 pt/acre	1.63 qt/acre	None
Lumax (2.5 qt/acre)	1.75 pt/acre	0.63 qt/acre	5.4 oz/acre
Lumax (3.0 qt/acre)	2.1 pt/acre	0.75 qt/acre	6.4 oz/acre
Lexar (3.0 qt/acre)	1.37 pt/acre	1.3 qt/acre	5.4 oz/acre

The glyphosate market continues to see more companies producing glyphosate at cheaper prices. There are probably close to 50 different glyphosate formulations. In the recent edition of Corn and Soybean Digest (April 2005), there was an advertisement for XSAg.com. It's a web site used to buy and sell agricultural chemicals and other ag inputs. They listed some of their trading activity for the past 60 days. Look at the differences in price between generic glyphosate versus Roundup Original Max.

-----**Final Delivered Prices**-----

Product	Unit of measure	High	Low	Average
Generic glyphosate + surfactant*	Gallon	\$17.94	\$11.65	\$12.31
Roundup Original Max	Gallon	\$24.39	\$21.50	\$22.13

*This category represents sales of Crop Sure Glyphosate Plus, Credit Extra, Glyfos X-tra, Gly-4-Plus, among others.

Locally, Syngenta and Monsanto continue to maintain market share with their new potassium salt formulations. I mentioned these in my last newsletter, but will present them again.

Company	Trade Name	Suggested use rate
Monsanto	Roundup Weather Max	22 oz/acre
	Roundup Original Max (may need additional surfactant)	22 oz/acre
Syngenta	Touchdown Total	24 oz/acre
	Touchdown HiTech (may need additional surfactant)	20 - 30 oz/acre

I also mentioned in my last newsletter the differences between the present Roundup-Ready corn and the New Roundup-Ready Corn 2 varieties. The seed corn companies that have varieties have been pushing them all winter. Unfortunately, you will pay for these newer varieties in terms of the technology fee. I've heard rumors that a bag of **Roundup-Ready Corn 2 can cost as much as \$120.00 per bag**. With 80,000 kernels per bag, you can plant about 3 acres which equates to **\$40.00 per acre for seed alone**. If you want the RR-2 varieties stacked with Bt, expect to pay an extra \$7.00 to \$8.00 per bag. I'll present the differences in how much Roundup Weather Max you can apply to the different varieties below.

Roundup Weather Max rates to use on RR-Corn versus RR-2Corn.

	Roundup-Ready Corn-2	Roundup-Ready Corn
Max. in-crop single application use rate	32 oz/acre	22 oz/acre
Max. in-crop total application	2 qt/acre	1.4 qt/acre
Max. in-crop application crop height	24" to 48" - drops required on 30" to 48" corn	24" to 30" with drop nozzles

We will be testing a new formulation of **paraquat** this season. Currently we use **Gramoxone Max which is a 2.5 SL**. The new formulation will be called **Gramoxone Inteon and is a 2 SL**. It will bring some newer qualities to the product.

Many of you are familiar with the new family of herbicides which Callisto belongs to. We will be testing another member of this family called topramezone, under the trade name **IMPACT**. It will be used strictly as a postemergence herbicide for use in corn. Apparently, it has good post activity on triazine-resistant broadleaf weeds, and has some grass activity as well.

SOYBEAN

For those of you who don't know, **we've lost both Canopy and Canopy XL**. DuPont no longer has metribuzin that goes in Canopy and cannot obtain sulfentrazone that goes in Canopy XL. DuPont will be selling **Linuron** again. They use to sell it under the trade name Lorox. However, linuron is only good on small-seeded broadleaf weeds like pigweed, lambsquarters and common ragweed. DuPont has introduced a new Canopy product called **Canopy EX, which is a blend of Classic and Express (10:1 ratio)**. Unfortunately, you will currently be **limited to applying this product 45 days before soybean planting time**.

One new product DuPont is introducing is **Synchrony XP**. It has the same ratio of

components as the older DuPont Synchrony (mixture of Classic and Harmony GT), but it has a lower percentage of active ingredient. This means higher product rates for the new Synchrony XP as compared to Synchrony STS. In addition to in-season postemergence uses on STS and non-STS soybeans, Synchrony XP may also be applied in the Spring, to enhance burndown and provide residual control.

-**Synchrony XP** is labeled at 0.75 oz/acre up to 30 days before planting or prior to soybean emergence after planting.

-A new supplemental label allows you to use 1 to 3 oz/acre of **Synchrony XP** for more residual control up to 45 days before planting. The 1 to 3 oz/acre rates of Synchrony XP give broader spectrum burndown and residual control of more broadleaf weeds than the 0.75 oz/acre rate.

-Because of the higher use rates, a number of vegetables will have recropping intervals of 12 to 30 months.

There are other options for those growers who choose to grow non-Roundup-Ready soybean. For preemergence grass control we have;

Residual grass control in soybean*

Dual II Magnum

Micro-Tech

Outlook

Prowl or Prowl H2O

* We also have Treflan which has to be incorporated, and Command ME which also control a number of broadleaf weeds like velvetleaf and spurred anoda

For preemergence broadleaf weed control we have;

Residual broadleaf control in soybean

FirstRate

Gangster

Linuron

Python

Scepter

Sencor

Synchrony XP

Valor

Within the grass products, **Prowl is probably the cheapest, but has little to no activity on yellow nutsedge. Dual probably has the best activity on yellow nutsedge.** Among the broadleaf materials, **Scepter is broad-spectrum with minimal injury. It will also provide some activity on eastern black nightshade.** However, we have some pockets on the Eastern Shore where we have developed weed resistance to this chemistry.

There has been some interest in the product **Gangster for non-Roundup-Ready soybeans. It is a co-pack of Valor plus FirstRate.** A unit of Gangster [one 5 lb jug of

Gangster V (for Valor) and one 16.2 packet of Ganster FR (for FirstRate) is selling for about \$530.00 to the grower. This is what it would break down to for the various use rates:

- Gangster at 1.8 oz/A (1.5 oz of Gangster V and 0.3 oz of Gangster FR) - \$9.92/A
- Gangster at 2.4 oz/A (2.0 oz of Gangster V and 0.4 oz of Gangster FR) - \$13.22/A
- Gangster at 3.0 oz/A (2.5 oz of Gangster V and 0.5 oz of Gangster FR) - \$16.53/A
- Gangster at 3.6 oz/A (3.0 oz of Gangster V and 0.6 oz of Gangster FR) - \$19.83/A

For **early post control we have Pursuit or Raptor**. Apply either product about 3 weeks after planting when weeds are small. Pursuit has some residual activity, Raptor has minimal residual activity. Both products also have some activity on eastern black nightshade.

For late post weed control, we have numerous products (see EB 237). If you have any questions, give me a call.

Syngenta will be marketing a blend of Touchdown + Dual II Magnum under the trade name **Sequence**. Use rates will run from 2.5 to 3.5 pints/acre. It is Syngenta’s intent to only promote Sequence as an early post product in Roundup-Ready soybeans and not as a preemergence burndown for full-season or double-crop soybeans.

While we’re on the subject of no-till soybeans, with the abundance of **Roundup-resistant marestial** on the Eastern Shore, we are recommending **2,4-D be used as a preplant in combination with Gramoxone Max (preferred) or any glyphosate product. Clarity is also labeled preplant**, but has some peculiar rainfall events that have to be met prior to planting soybeans. The two products are outlined below.

2,4-D application chart for preplant use on full-season no-till soybeans*

Product	Use Rate	Amount of ai/acre	When to apply (preplant interval)
2,4-D amine (4 lb ai/gallon)	0.75 - 1.0 pint	0.375 - 0.5 lb	15 days
	1.0 - 2.0 pint	0.5 - 1.0 lb	30 days
2,4-D ester (4 lb ai/gallon)	0.75 - 1.0 pint	0.375 - 0.5 lb	7 days
	1.0 - 2.0 pint	0.5 - 1.0 lb	30 days

*Some 2,4-D formulations have shorter preplant intervals. Some 2,4-D formulations are available that contain greater than 4.0 lb ai/gallon.

Clarity Soybean Preplant Applications in full-season no-till soybeans

-Apply **4 to 16 fluid ounces of Clarity per acre** to control emerged broadleaf weeds prior to planting soybeans.

-Do not exceed 16 fluid ounces of Clarity per acre in a Spring application prior to planting soybeans.

-Following application of Clarity and a minimum accumulation of 1.0 inch of rainfall or overhead irrigation, a waiting interval of 14 days is required for 8 fluid ounces per acre, and 28 days for 16 fluid ounces. These intervals must be observed prior to planting soybeans or injury may occur.

-Do not make Clarity preplant applications to soybeans in geographic areas with average annual rainfall less than 25 inches.

ODDS AND ENDS

-After much success in other crops like corn, soybeans, and cotton, look for the availability of **Roundup-Ready alfalfa this Fall or in 2006.**

-For those of you that followed the new product **Osprey** (from Bayer), it had an okay year of introduction for control of grassy weeds in wheat. We are currently testing another (yet unnamed) product from Syngenta which has postemergence control of Italian ryegrass in wheat. It seems to have a little faster knock-down of the ryegrass and can be mixed with complete liquid fertilizer which Osprey cannot.

-We have been experimenting with **Spartan herbicide (also called Authority)** for preemergence broadleaf weed control in **sunflowers**. I do frequently get asked what is available for sunflowers. The answer - not a lot! **Most people use Prowl (labeled)**. Some use light rates of Dual II Magnum or Lasso in combination with Linuron (not labeled). The biggest problem is control of large-seeded broadleaf weeds. Those that have experimented with Spartan have seen good control of morningglory species, although under cool, wet conditions, injury may occur. States such as Missouri and Nebraska have had Section 18's for use of Spartan in sunflowers. **Use rates have run 2.0 to 3.0 oz products/A in light soils, 3.0 to 4.0 oz product/A in medium soils, and 4.0 to 5.3 oz product/A in heavier soils.**

That's it for now. Until next time.

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