



News you can use from the Golf Industry Show trade show floor.

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Update of New Products

Herbicides:

Dow-Agrosciences is developing a postemergence broadleaf weed control herbicide. The active ingredient is called arylex that is in the same classification as 2, 4-D, dicamba, or triclopyr. It is most active when foliar applied but is also root absorbed. There will most likely be warm-season and a cool-season pre-mix products.

BASF has a new supplemental label for **Pylex** (active ingredient topramezone) turf herbicide that recommends rates and tank-mix combinations for goosegrass and crabgrass control in bermudagrass, seashore paspalum, and for controlling bermudagrass in cool-season turfgrasses. Pylex controls goosegrass in bermudagrass and seashore paspalum at 0.5 to 0.75 oz. product/acre with methylated seed oil (MSO) surfactant added. Leaf bleaching of the bermudagrass turf will occur for 2-4 weeks. For increased control of crabgrass and reducing turf bleaching, the label suggests adding 32 fly oz. product/acre of Turflon Ester to the Pylex at 0.75 fluid oz. product/acre. Pylex can be used to remove bermudagrass from cool-season turfgrasses with 3 applications at 1.3 oz. product/acre combined with 1.0 lb. a.i./acre of Turflon Ester (triclopyr) along with 0.5% v/v MSO. Fall season sequential applications at 21-day intervals are best with the first application being made 9-12 weeks before the first hard frost. Repeat this program for 2-3 seasons to completely remove the bermudagrass.

SePro is marketing “**ECOS**” – Early Control Optimized Sonar Performance” for preventative aquatic weed control in ponds and lakes. Sonar (active ingredient fluridone) is now formulated as a slow release product which allows application before aquatic weeds become a problem.

Moghu USA, LLC is now planning for a 2019 EPA approval and release of **PoaCure** (active ingredient methiozolin). This product has been evaluated in Arizona under an experimental use permit for about 5 years. Experiments have shown that 4 repeat postemergence applications in the fall followed by 2 more spring applications removed most of the *Poa annua* from bentgrass greens. The product will also be used to control *Poa trivialis* in Kentucky bluegrass fairways at high elevations in Arizona.

FMC anticipates a 2018 registration in Arizona for **Blindside** which is combination of active ingredients metsulfuron (Manor) and sulfentrazone (Dismiss CA) pre-mix herbicide for postemergence broadleaf weed control. It can be used on bermudagrass and St. Augustinegrass and on the cool-season tall fescues and Kentucky bluegrass. It's label for Arizona will include

typical problem weeds such as black medic, annual bluegrass, chickweed, and the tough to control groundsel, wild celery, and spurges.

Quali-Pro will soon have a new product called *Fahrenheit* which is a pre-mix herbicide (combination of active ingredients metsulfuron and dicamba) for broadleaf weed control. A registration for Arizona use is pending and expected this spring.

NuFarm has a new post emergence sulfonylurea (SU) herbicide that when applied to foliage, translocates downwards to subsurface growing points of targeted weeds. The active ingredient is imazosulfuron. The product (*Celero*) is intended for the control of both purple and yellow nutsedge and kyllinga. It is also labelled for control of burrlover, chickweeds, parsley piert, and purslane.

Bermudagrass, St. Augustine and Zoysisagrass are all tolerant at label rates. While many of the other SU herbicides are not tolerated by cool season grasses, Celero is safe to use on creeping bentgrass, fine fescues, Kentucky bluegrass, tall fescue as well as perennial ryegrass.

Insecticides:

Syngenta has a new suspension concentrate (SC) formulation of abamectin called *Divanem* (same a.i. as in the product Avid). The new formulated nematicide will contain 0.7 lb./gallon of abamectin and is a restricted use pesticide. Multiple applications of 3.125 to 12.2 oz. product/acre at 2 to 4 week intervals should be applied with a maximum of 50 oz. product per acre per calendar year.

After June 30, 2017, Avid will not be for sale as a nematicide. Avid will be available for use in ornamentals.

Quali-Pro released *Taurus Trio G* insecticide in January 2017. It is a 3-way mixture of fipronil, bifenthrin and lambda-cyhalothrin. It is a granular formulation for turf use for the control of fire ants, mole crickets (pest found in Yuma), and ticks and fleas. It is registered in Arizona as a restricted use pesticide and is for application by certified licensed applicators only.

Fungicides:

Quali-Pro is releasing Enclave, a 4-way fungicide, with the active ingredients chlorothalonil, iprodione, thiophanate-methyl, and tebuconazole. The idea is to provide broad spectrum control using multiple active ingredients which have different modes of action. For avoiding resistance, this product would be used only as a curative application as it is not intended for long term repeated use as a preventative fungicide product. It controls snow mold in northern Arizona, gray leaf spot, and on ornamentals, pine tip blight and powdery mildew.

SePro has a new biological fungicide named *Zio* that contains a mix of *Pseudomonas* bacteria which can be used to control brown patch, Pythium, and anthracnose. It is active against Rhizoctonia brown patch, which sometimes occurs on tall fescue lawns in Arizona during the monsoons. It which provides multiple modes of action against fungi by affecting cell wall degradation; affecting vegetative growth of hyphae; and having the ability to colonize roots and

intercellular spaces. The product has a long shelf life and low sensitivity to UV light. Registration is expected and may be available in Arizona this summer.

Grasses:

Pure Seed will soon release ***Rain Saver*** tall fescue which has improved drought tolerance and salt tolerance. Tall fescue can be used for a small lawn at above 2,400 feet elevation in Arizona.

Zoysiagrass is gaining traction for use on golf courses. It has the advantage of staying green longer than bermudagrass, and requires less fertilizer than bermudagrass greens. However, it is slow to recover if injured or damaged. Texas sod producer, Bladerunner Farms, has been developing zoysiagrass for the last 25 years and will soon have greens quality cultivars for the market. The experimental zoysiagrass selections that will be available in 2018 are M85 and M60 (yet to be named). The company's recent releases include ***LIF*** Zoysia, and ***Lowrider*** Zoysia which mow easily at 3/8" height and only need to be mowed once a week, as both of these grasses have a low vertical elevation rate.

Mechanical brushes:

TurfScience, Inc. of Phoenix, AZ continues to develop high performance up-front brush attachments for fine turf situations. In 2017, the company will be releasing the "Eclipse" line of brush heads for the floaty-head Jacobson greens mowers. Released last year were new brush heads ranging from "stiff" to "aggressive" which fit John Deere, Toro, and Jacobson fairway mowing units.

Greens brushes are available in three types: soft brushes which provide flex for brushing in topdressing sand; medium brushes used to stand-up the leaves and provide a cleaner cut during the summer stress period for bentgrass and Poa/bentgrass greens; and aggressive brushes used in the fall and spring on bentgrass greens, and during the summer on bermudagrass greens when the grasses have their greatest growth rate. The brushing action produces a more upright shoot growth habit, which improves the ball roll distance of the greens surface.