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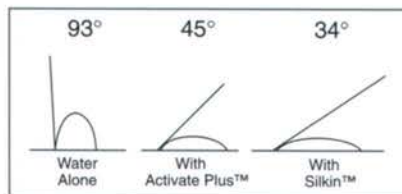
Using Adjuvants In Your Plant Protection Program

Here's how adjuvants can improve the performance and coverage of your plant protection product applications.

Using adjuvants in your turf management program can help you improve plant protection product performance. They can even make the difference between peak and poor performance. The starting point is to find the right adjuvant for the job. The most commonly used adjuvants for turf are: wetting agents; spreader/stickers; spreader/activators; sticking agents, and buffering and compatibility agents.

Wetting Agents

If you've been making thorough herbicide, fungicide and insecticide applications but still aren't getting the control you expect, your plant protection product may not be penetrating plant tissue surfaces. This reduces control and leaves spray residue susceptible to wash-off. The wetting agent Riverside® Silkin™ helps sprays penetrate plant tissue quicker for improved overall performance.



The wetting agent Riverside Silkin and spreader/activator Riverside Activate Plus™ reduce surface tension of spray so that it forms "flatter" droplets, improving coverage and absorption.

Spreader/Stickers

Good control in some areas and poor control in others could mean drift and wash-off are taking their toll on spray performance. During application, spray droplet size varies, reducing adhesion and causing spray to miss the target. To improve coverage and adhesion, use the spreader/sticker Riverside Complex™. It adjusts droplet size for better performance, even under adverse conditions. By reducing surface tension in the spray droplet and keeping the spray mixture suspended, Complex can dramatically improve the efficiency of herbicides, fungicides and insecticides.

Spreader/Activators

Droplet size varies during applications, making retention and distribution more difficult. Spreader/activators work in much the same way wetting agents

do. They deliver more uniform droplet distribution, quicker wetting and increased spray retention on leaf and stem surfaces when used with herbicides, fungicides and insecticides.

The spreader/activator Riverside Activate Plus improves performance and efficiency by moving the spray into plant tissue more quickly. By speeding up penetration, you get increased pest control.

Sticking Agents

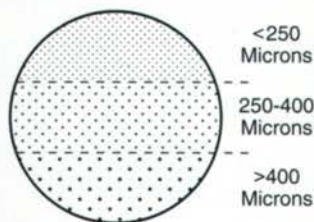
Contact herbicides, and non-systemic fungicides and insecticides can sometimes be washed away by rain, irrigation or even dew. Plant protection product sprays are also affected by drift. The sticking agent Riverside Plex® helps plant protection products penetrate the vegetation canopy and stick to plant tissue. That also helps control drift. Using



Riverside® Adjuvants Maximize Your Pest Control.

Plex will help you make applications that will last longer, even in wet conditions.

Approximate Actual Size



Spray droplets under 250 microns are susceptible to drift and poor coverage. Using Riverside Plex or the spreader/sticker Riverside Complex to control droplet size effectively controls drift and

improves coverage. Both maintain droplet size near 400 microns, ideal for the best application.

Buffering and Compatibility Agents

If you're not getting the control you want but have followed label directions to the letter, it could be a pH problem in your tank mix. The buffering agent Riverside Combine® will help you correct the pH level for maximum performance from your spray mixture. If you're unsure of your pH level, use a pH test kit or, if you don't have one, contact your Terra representative.

Combine® pH use chart.

Desired pH	Starting pH			
	9	8	7	6
8	2	0	0	0
7	4	2	0	0
6	16	12	8	0
5	20	16	12	8

Oz/100 gal. water

A chart like this one makes it easy to adjust pH level for optimum results. For example, if your desired pH is 7 and your starting pH is 9, you would need to mix 4 ounces of Combine per 100 gallons of water to get the proper pH.

In addition to buffering, Combine also works as a compatibility agent. The compatibility agent Combine should be used when: more than one plant protection product is included in a tank mix; when tank mixing different formulations like wettable powders and liquids; or when applying micronutrients or plant protection products with fertilizer. Also, Combine improves spray mix stability and dispersion.

To see if a compatibility agent will help your tank mix, try the jar test. Fill two quart jars each with a pint of water or carrier. Use the same source and temperature as you would in your actual tank mix. Mark one jar "with" and one "without." Add 1/4 teaspoon of Riverside Combine to the jar marked "with" and shake it gently for 5-10 seconds. Add the plant protection product(s) to both jars in the proper volume and sequence according to the label directions. Shake gently before adding each new product. Wait 5-10 minutes. Check both jars. If no gels, sludge, flakes or other irregularities are present, the mix is compatible.

If the jar marked "with" is compatible and the jar marked "without" isn't, a compatibility agent should be added to your tank mix. If the jar marked "with" isn't compatible, the tank mix shouldn't be used.

Wait 30 minutes. If the mixture separates but readily mixes again, the tank mix can be used with proper agitation.

Adjuvants Pay Off

Overall, adjuvants can help you protect the investment you make in plant protection products by making them more effective. Whether you're using wetting agents, spreader/stickers, spreader/activators, sticking agents, buffering and compatibility agents or all five, they can help you overcome some of the common problems faced by turf professionals.

For more technical information on adjuvants, contact your nearest Terra Professional Products representative.



Get maximum plant protection product performance with Riverside® adjuvants. They make spray mixes work harder, perform better and control more.

Adjuvants help you get the most out of your program and protect your plant protection product investment at the same time. Riverside adjuvants make the difference between a good job and a great job. Use them with your spray applications to maximize performance.



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Florida wins GCSAA golf title

BY JOE ONDO, CGCS

A full moon and 24-degree temperatures welcomed 720 players on Monday, Feb. 5, 1996 to sunny Orlando for the 67th Annual GCSAA Golf Championship. A two-hour delay at most courses allowed temperatures to reach 34 degrees before the first foursome was allowed to tee off.

After the first round was over, the Florida #1 team led by Buck Buckner's 73, Jim Osburne's 74 and Mark Hopkins' 81 at Disney's Eagle Pines course combined with Kevin Downing's 75 at Hunter's Creek to lead the field by seven shots.

On day two, windy, cloudy conditions and a temperature of 38 degrees for most of the morning wreaked havoc for most of the players and kept scores higher than normal. By the end of the grueling day, The Florida #1 team held on for a two-shot victory and ended a 13-year victory drought and brought the Scottish Team trophy back home for 1996. Congratulations to Buck, Mark, Jim and Kevin for a job well done. Congratulations also to Jim Dusch from Atlanta National Golf Club for winning the Championship Flight and the USGA Trophy with a 149 total.

Besides the Scottish Team trophy, Florida superintendents also did very well individually: Buck Buckner was third overall and the other team members also won prizes in their flights. Hal Richburg, Kevin Rotti and Tom Trammell also took home prizes in their flights. Kevin Downing and Fred Klauk won the Best Ball tournament on Sunday before the Championship.

Host Superintendents for the six courses used in the tournament were Larry Kamphaus, Manager of Golf Course Maintenance, Walt Disney World; Pat Hennessey, Disney's Eagle Pines course; Alan Steichen, Falcon's Fire; Joel Jackson, CGCS, Disney's Magnolia course; Craig Shelton, Hunter's Creek; Doug Rouse, Disney's Lake Buena Vista course and Tom Trammel, CGCS, Metro West. All received plaques from the GCSAA for jobs well done.

After the tournament, temperatures returned to normal and players put away their long underwear, ski caps, mittens, sweaters and other layers of clothing to head for the conference and show. We will have to wait and see what Mother Nature has in store for us next year in Las Vegas. 🏌️

GCSAA has developed a new piece of "clip art" that superintendents can use to encourage golfers to repair ball marks, replace divots and rake bunkers. "It's every player's responsibility" is a black-and-white, camera ready ad slick that any GCSAA member can reproduce in club/course newsletters, local golf publications or even on scorecards. To obtain a copy, contact the GCSAA Public Affairs Department at 913/832-4490.

It's every player's responsibility...

- Repair ball marks
- Replace or fill divots
- Rake bunkers



A message from your golf course superintendent and GCSAA



The LCCC Fund Raiser Tournament Committee weathers another successful event.

LCCC benefit event raises \$9,000

The Fourth Annual Endowment Fund Raising Golf Tournament was held Jan. 12, 1996, at the Riverwood Country Club. Though the day started off with a torrential rainfall, the tournament did manage to begin after about a 45-minute delay. Even the rain couldn't dampen the spirits of the attendees as only a few didn't show. With clearing skies and increasing wind, the beautiful Riverwood Golf Club fulfilled everybody's expectations and beyond.

Though the pro shop did notice a drastic increase in golf ball sales that day, some people did manage to turn in some impressive scores. Out of these scores some even passed the lie detector test administered by the tournament committee. All joking aside, this event raised in excess of \$9,000, thanks to the support of the sponsors and players. Though the winners received some great raffle prizes, valued at \$10,000, the real winners were Lake City Community

College Golf Operations and the entire turf industry.

A Flight tournament winners were Tom Hilferty and Andy Burmester, and for the B Flight, Greg Pheneger and Ralph Daire. The big raffle winners were Rick Tatum, with a cruise to Cozumel, Mexico, and Jack Stahl, who won \$500 in cash.

The tournament committee consisted of Co-Chairmen David Fry and Glenn Zakany, Host Superintendent and Diamond Sponsor Coordinator Scott Hamm, Gold Sponsor and Raffle Prizes Coordinator John Johnson, Dick Bessire, Jason Brod, Mike Griffith, Odell Spainhour and Brad Walters.

The tournament committee would like to thank all who make this event possible and hope to continue the tradition of this event. Weather permitting, next year's tournament will also be held the second week in January. 🏌️

THANK YOU!

4th Annual LCCC Endowment Fund Raising Golf Tournament Riverwood Golf Club

The Tournament Committee would like to thank all of our sponsors because they are the people we continue to solicit to insure the success of these fund raising events.

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Century Rain Aid
Carmouche Pro Spread
Vermeer



9th Green Marsh Landing C.C. Photo by Daniel Zelazek



*And a marsh
runs through it...*

BY JOEL D. JACKSON, CGCS

Florida's Intracoastal Waterway is a network of bays, rivers, creeks and marshes all connected behind the barrier islands of the coastline. In Northeast Florida, the Pablo Creek portion of this

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waterway runs south from the St. Johns River to the Duval - St. Johns County line. Just below the St. Johns County line, we find Cabbage Creek draining the land west of Ponte Vedra Beach. Along the banks of the winding tributaries of Cabbage Creek, we find the Marsh Landing Country Club.

Many of the golfholes at Marsh Landing are nestled between and crossed by Cabbage Creek's serpentine swards of marsh grasses turned golden brown by the several hard freezes of the winter of '96.

Narrow, twisting, brackish creeks, rising and falling with the tides, meander through the marsh grass. Oyster beds protrude at low tide and wakes and swirls of cruising fish can be seen on the rising tide. Other holes wind through oak, pine and sabal palm hammocks common in the landscape just west of the great coastal beach dunes.

In contrast to the marsh grasses and the tan dormant bermudagrass roughs, the overseeded greens, tees and fairways rest like emeralds on beige velvet. The bright green islands of turf catch your eye in the winterized landscape. And like the precise facets on a gemstone, the edges of the overseeded areas are crisp and clean, reflecting the work of a master craftsman.

Ed Seay designed Marsh Landing in 1986 and for the past seven years superintendent Steve La France has been tending to the details of managing and grooming this gem of a golf course.

It is late January and Steve is giving me a tour of Marsh Landing. The winter has been just as hard on North Florida as it has on Central Florida. Marsh Landing does receive some moderating effect from being so close to the Atlantic Ocean. Their temperatures run a few degrees higher during the cold snaps than the courses farther inland.

"The biggest problem this winter has been the duration of the cold spells this year," says Steve. "The cold is lasting longer and driving the grass into deeper dormancy."

The contrasts between the overseeded and non-overseeded areas are more pronounced this year. I like