



Academic colleagues,

Below are a few new updates. Please send me feedback this season so I can make these updates as useful as possible. Thanks.

- **Herbicide Symptomology:** This season growers have greater choice in which seed and herbicide system to utilize on their farms. Now is a time when growers need more, not fewer, weed control tools, and we're glad to see more options in the marketplace. We also recognize that this means we'll have even more herbicides being applied early and in-crop as growers continue to implement integrated weed management programs to control Palmer amaranth, waterhemp, marehail and other troublesome weeds.

There are several factors to consider this season that will make properly evaluating potential herbicide symptomology that much more critical. With multiple herbicide systems now available, dicamba, 2,4-D, Group 15 herbicides and others will be applied during similar timeframes this year. In addition, the current environmental challenges U.S. growers and applicators are experiencing means growers are already set to have a shortened season, making timely herbicide applications of small weeds all the more important. As a result of this shortened season, we'll see herbicide applications in soybeans and corn taking place at similar times, and to prevent contamination, as always, we'll need to be diligent about utilizing proper sprayer system hygiene following those herbicide applications.

In a season that is already tiring for growers, we want to be there to support them, to provide necessary resources and to answer any questions they may have. We'll be providing our grower customers, retail partners, field organization, industry partners and others with refreshers on good weed management options; proper sprayer system hygiene; and diagnosing symptomology and plant effects from pesticide exposure and environmental influences. These resources also will be key to help us properly assess and discuss what we're seeing in fields this season.

Universities and Extension programs have developed excellent tools to assist with diagnosis and plant symptomology. Many of you have specifically developed or significantly contributed to these resources. These will be useful as we evaluate inquiries this season and work to understand what's being observed, including common trends across regions. Below are just a few of these resources.

- [Response of Multiple Plant Species to Sub-Labelled Doses of Herbicides](#), University of Nebraska – Lincoln, West Central Research and Extension Center¹
- [Visual Expected Symptomology of Herbicides](#), University of Nebraska – Lincoln, West Central Research and Extension Center²
- [Herbicide Symptoms](#), University of California – Division of Agriculture and Natural Resources³
- [Crop Injury Associated with Growth Regulator Herbicides](#), Iowa State University⁴

We know there are many more resources available that you all have developed, and we'd like the opportunity to help spread the word on those pieces, particularly with our agronomy and sales organization. *If you're interested in us sharing your content with our teams, in a future update or posting them to our resources webpage, please send them to me.*

- **2019 Field Trials:** We've kicked off our 2019 field trials with a focus on large-scale drift and volatility field trials of our future dicamba formulations. We're once again partnering with many of you on these trials and will keep you informed of our progress.

We're also conducting several Bayer-led Good Laboratory Practice field trials across the Midwest and Mid-South on these future dicamba formulations. It's critical that we continue moving this technology forward to provide growers even more weed control options, and this trialing will be vital to that effort. This research will be submitted to the Environmental Protection Agency (EPA) as they assess future dicamba formulations.

- **Dicamba Inquiries:** We've not yet received any inquiries to 1-844-RRXTEND. We'll continue to encourage growers, applicators and others to contact us throughout the season with questions or inquiries. We're committed to keeping you informed on our inquiries.

As always, please don't hesitate to reach out to me with questions, concerns or comments.

Thanks,
Ty

Dr. Ty Witten

Director, NA Crop Protection Strategy



Bayer U.S. – Crop Science
North America Market Development
St. Louis, MO. 63167. USA
Tel: +1 (314) 694-6528
Web: <http://www.bayer.com>

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1 Golus, Jeffrey A., Hillger, David E., Kruger, Greg R., Schleier III, Jerome J., Schroeder, Kasey P. (2019). Response of Multiple Plant Species to Sub-Labeled Doses of Herbicides. University of Nebraska – Lincoln, West Central Research and Extension Center.

2 Kruger, Greg R. & Corteva Agriscience™ (2019). Visual Expected Symptomology of Herbicides. University of Nebraska – Lincoln, West Central Research and Extension Center & Corteva Agriscience.

3 Al-Khatib, Kassim, Professor (2019). Herbicide Symptoms. University of California – Davis, Division of Agriculture and Natural Resources.

4 Anderson, Meaghan, Field Agronomist & Hartzler, Bob, Professor of Agronomy (2019). Crop Injury Associated with Growth Regulator Herbicides. Iowa State University.