




**WEED
RESISTANCE**
GLOBAL SYMPOSIUM



Science For A Better Life

A Wheat Farmers Perspective

Weeds Under The Big Sky

Gordon Stoner, Outlook, Montana, USA



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Stoner Farms

- Homesteaded in 1909
- 100% Continuous Crop, No-till, Dryland Farm
- Durum, Peas, Lentils, Corn, Oil Seeds, Cow/Calf
- 10/12 inches annual precipitation (Ground Frost 5 Months/year)
- Sheridan County #1 in Montana Durum, Pea, Lentil Production

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- Wheat Grown in 44 States
- Top 5 States...Kansas, North Dakota, Montana, Washington, South Dakota. Represent 1/2 of US Production
- Over 2 Billion Bushel Production. Nearly 1/2 into Export Channels
- Montana Exports 80% of Wheat and 90% of Pulse Production
- Montana's Population 1 Million People. To Consume Our Wheat 400 Loafs/day

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Resistance at Stoner Farms

- No Documented Cases to Date
- Suspect Yellow Foxtail
- Hawksbeard & Canada Thistle are ongoing problem
- Not **If** but **When**
- Using Most Herbicides at Maximum Labeled Rates
- My Grandfather 1927 and 2014





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Resistance in Montana

- 1970's....Far-go Wild Oats
- 1980's....Sulfonated Ureas Kochia
- Today.....Multiple Modes/Products Wild Oats, Kochia, Yellow Foxtail (Pigeon Grass), Canada Thistle, Narrow Leaf Hawksbeard
- Tomorrow.....?????



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Current Weed Management Practices

- Recommended Rates, Multiple Tank Mix Partners
- Multiple Modes of Action (Herbicide Rotation)
- Diverse Crop Rotation
- Late Season Herbicide Application
- Residual Herbicides
- Latest Application Technology (Accurate, Uniform Herbicide Placement)



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Difficulties & Failures

- Cover Crops....Short Growing Season, Minimal Rainfall, Weed Competition
- Residual Herbicides....Damage to Succeeding Crop
- Herbicides with Soil Activity Failing Due to Drought
- Stressed Crop Response to Herbicides



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Future Plans

- Recruiting a Staff or Contract Agronomist
- Exploring Additional Crop Rotations (Sorghum?)
- Using Additional/Different Tank Mix Partners
- Waiting for the Next New Mode(s) of Action

Montana Big Sky Country





The Next National Commodity Organization?





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Thank You for Listening and Thank You to Bayer
CropScience for their Gracious Hospitality!