Crop Management Outlook for 2020



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Crop Management Outlook for 2020



Nick Seiter

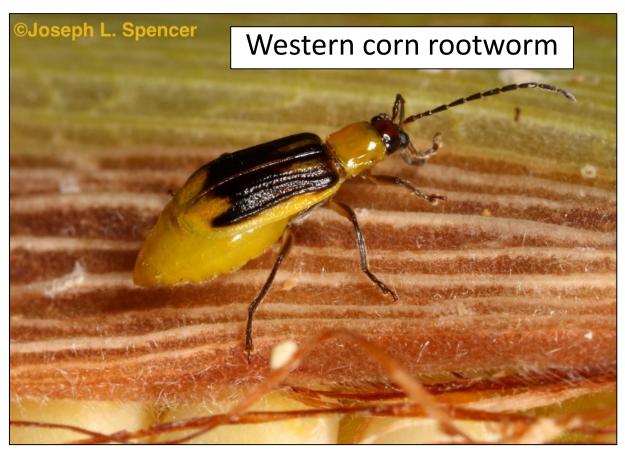
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Corn rootworm in 2020

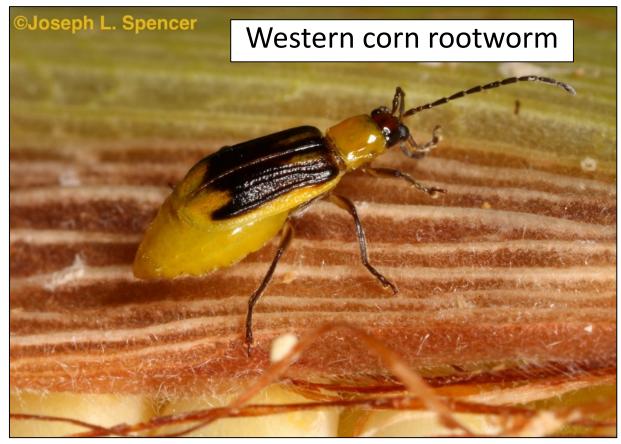




Generally low populations observed over the last several years (compared with historical averages)

Photos: Dr. Joe Spencer,
Illinois Natural History Survey

Corn rootworm in 2020

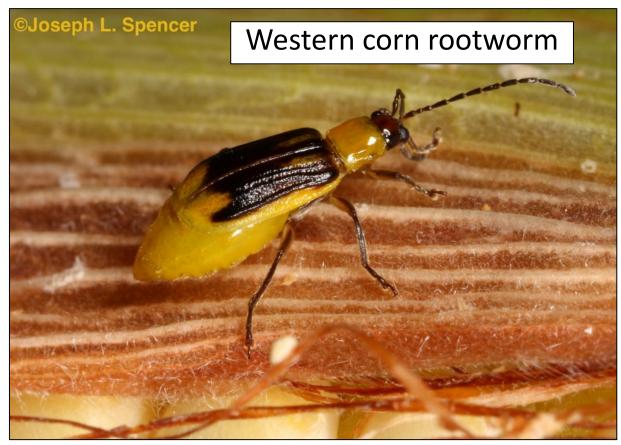




Surveyed populations in 2019 were particularly low

Photos: Dr. Joe Spencer,
Illinois Natural History Survey

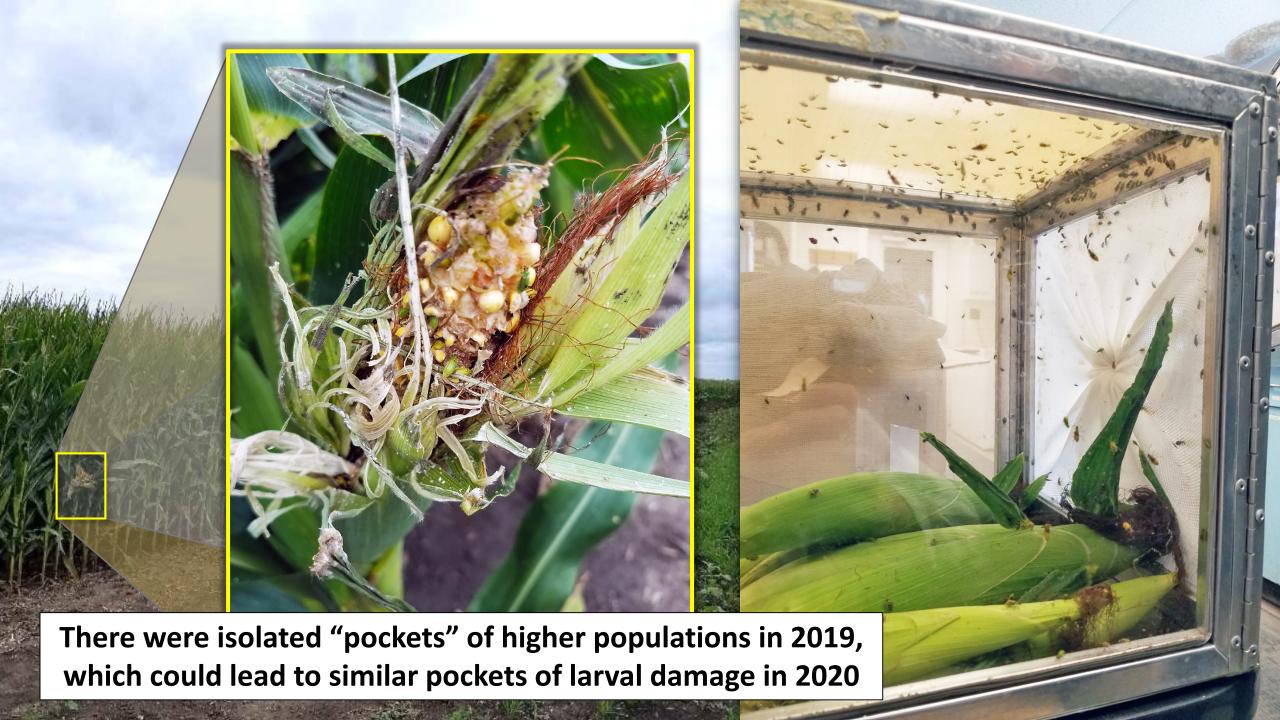
Corn rootworm in 2020

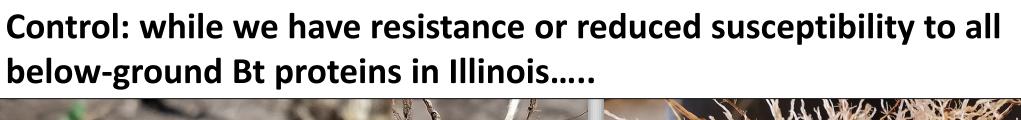




General risk of damage in 2020 is therefore low. However.....

Photos: Dr. Joe Spencer,
Illinois Natural History Survey

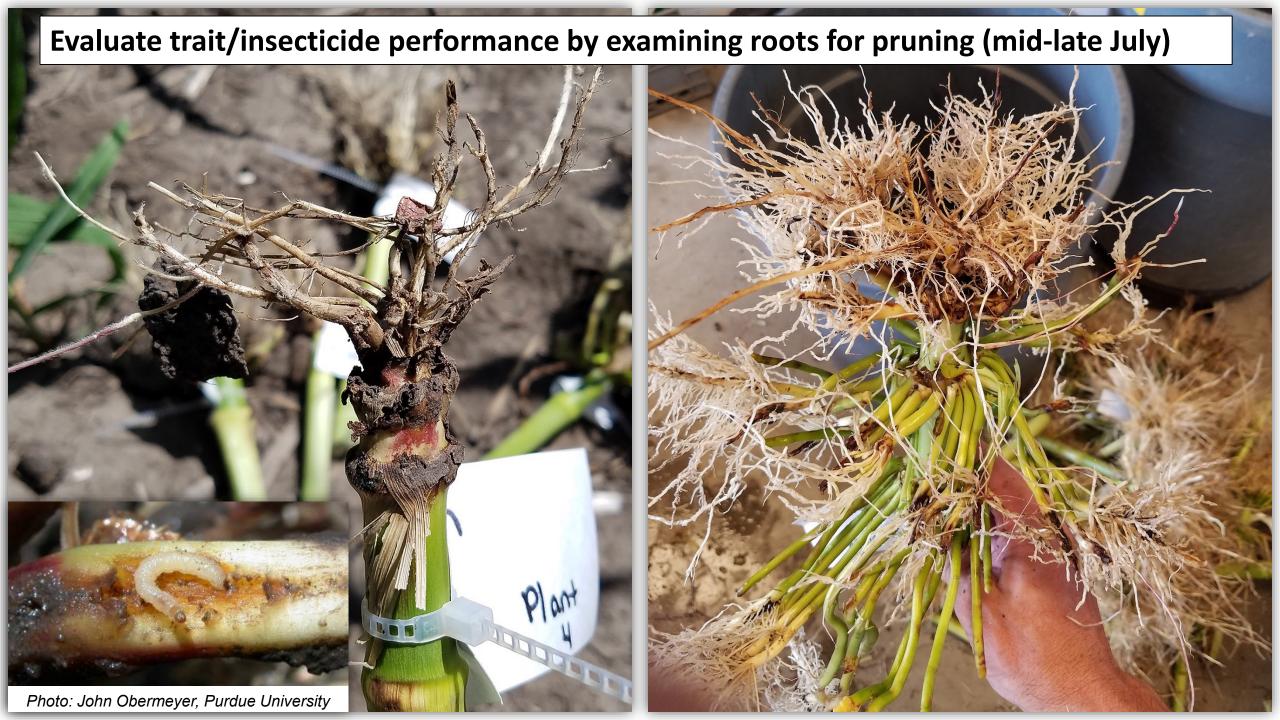


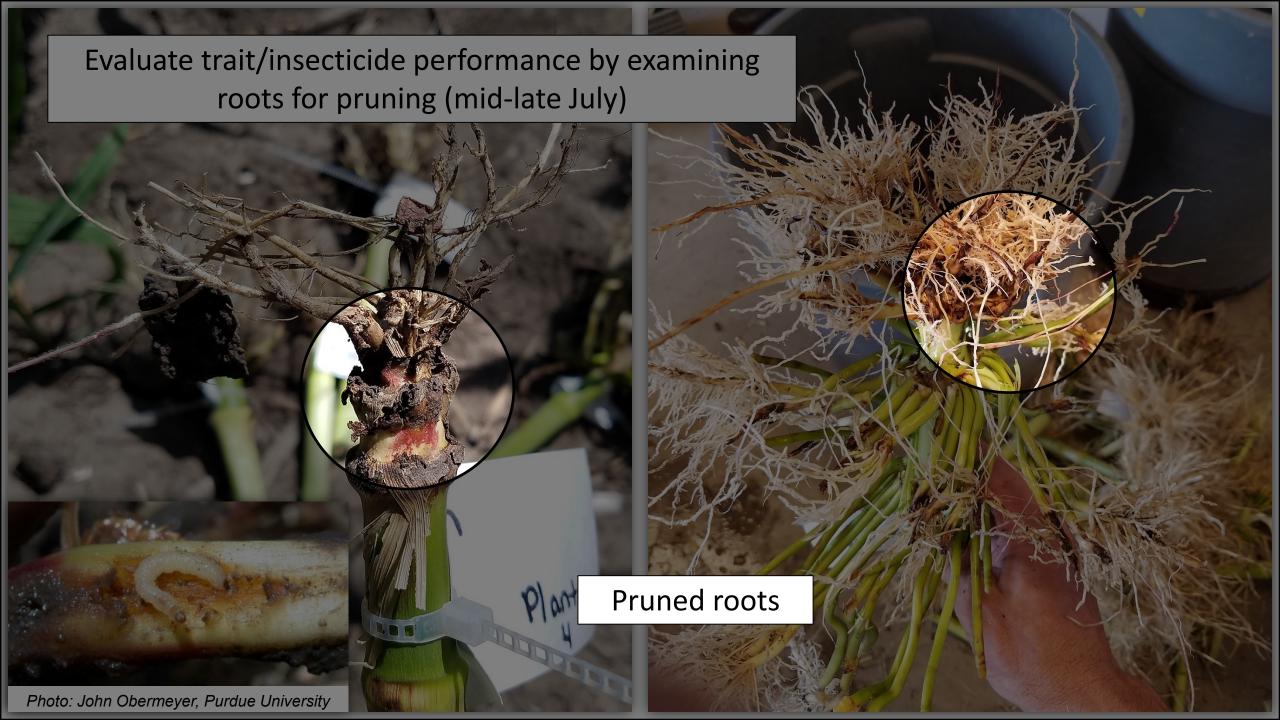




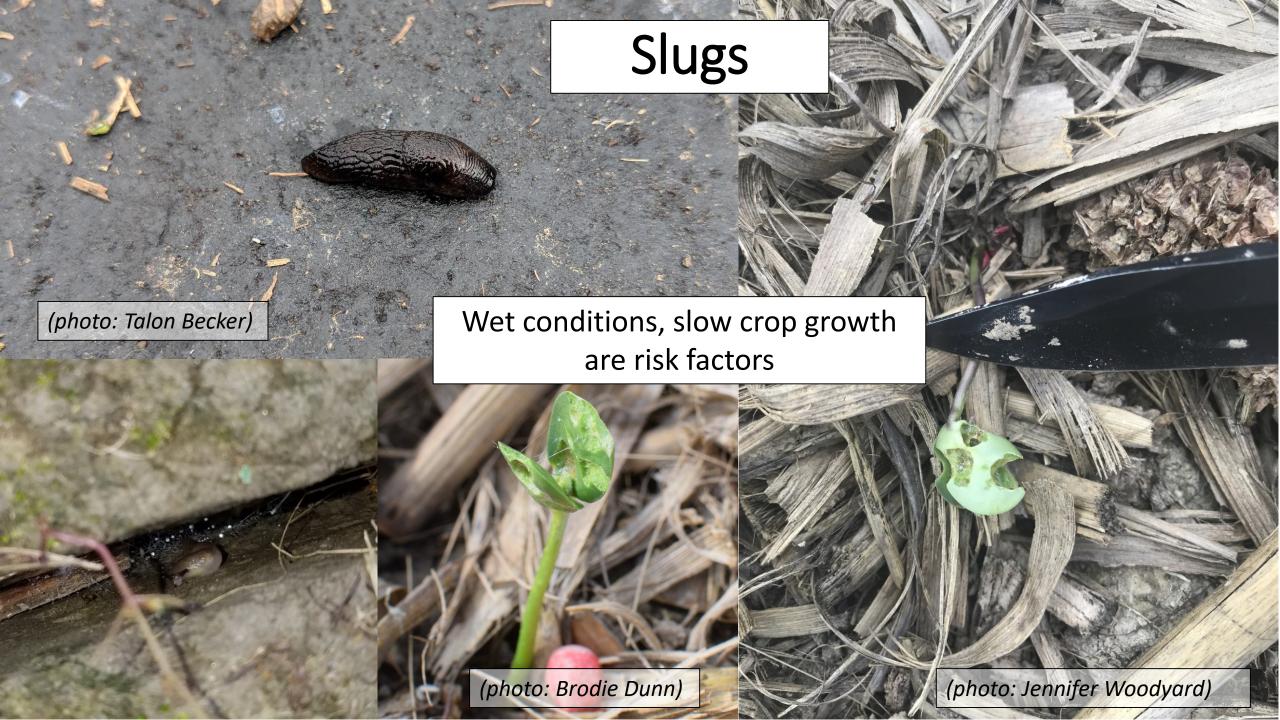


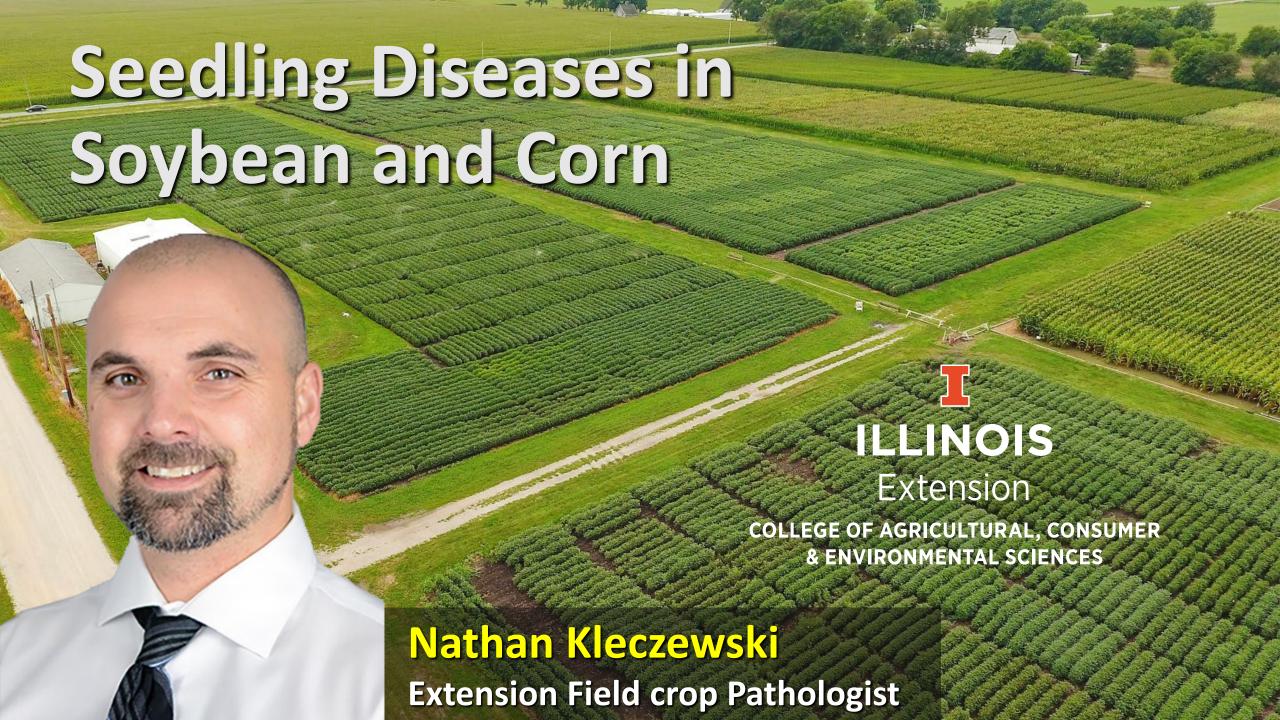












Effects of seedling diseases

- Death of seedlings prior to emerging from ground
- Death of plants soon after emergence
- Reduced plant growth rates and yield potential

Seedling diseases

- Pythium, Phytophthora (soybeans) oomycetes
- Fusarium, Rhizoctonia
- Wet soil and delayed germination (cool temperatures, deep planting, heavy soil)





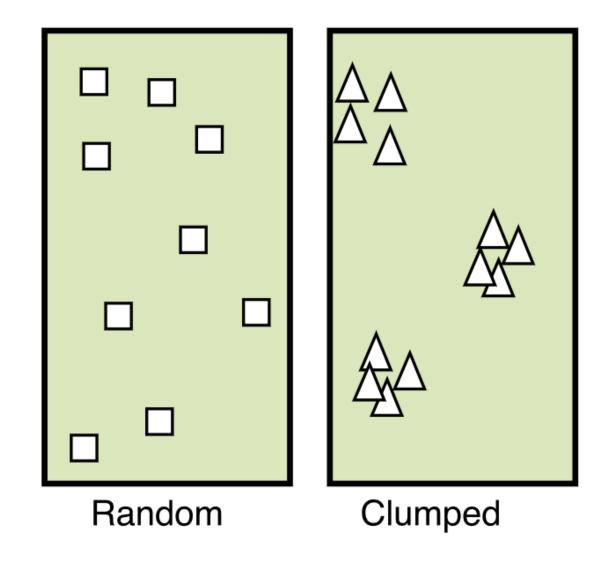


Keep in mind

- Often it is hard to tell what was the primary disease and what came in afterwards
- The "deader" the sample the more types of fungi will be recovered or detected
- In general- factors that reduce germination and keep the soil wetter for a longer period favor all root rots.
- If resistance is available and issues are consistently an issue, use it (SDS, Phytophthora).

Scouting

- Stand counts 14-21 DAP
- Assess at least 1 location for every 10-15 field acres
- Representative of field
- 10-20 ft row



• Look for skips, pre and post emergent damping off

Seed
treatments
for soybeans

					(Fusarium virguliforme)	
Azoxystrobin	P-G	NS	VG	F-G	NR	Р
Carboxin	U	U	G	U	NR	U
Ethaboxam	E	E	NR	NR	NR	NR
Fludioxonil	NR	NR	G	F-VG	NR	G
Fluopyram	NR	NR	NR	NR	VG	NR
Fluxapyroxad	U	U	Е	G	NR	G
Ipconazole	Р	NR	F-G	F-E	NR	G
Mefenoxam	E ²	E	NR	NR	NR	NR
Metalaxyl	E ²	E	NR	NR	NR	NR
Oxathiapiprolin	P-G	E	NR	NR	NR	NR
PCNB	NR	NR	G	U	NR	G
Penflufen	NR	NR	G	G	NR	G
Prothioconazole	NR	NR	G	G	NR	G
Pydiflumetofen	NS	NS	NS	NS	VG	NS
Pyraclostrobin	P-G	NR	F-G	F	NR	G
Sedaxane	NR	NR	Е	NS	NR	G
Thiabendazole	NR	NR	NS	NS	Р	G
Trifloxystrobin	Р	Р	F-E	F-G	NR	P-F
					•	

¹⁻Products may vary in efficacy against different Fusarium and Pythium species.

Pythium

Phytophth.

Rhizoc

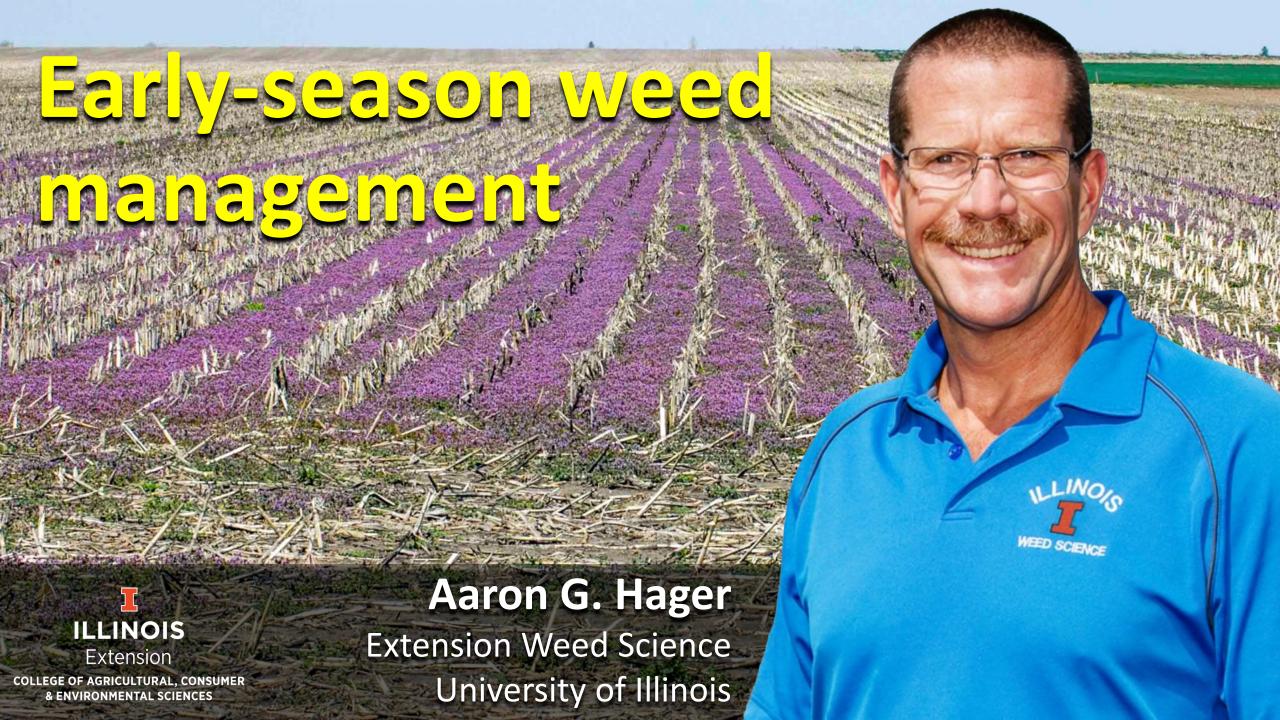
Fusarium

SDS

Phomopsis

²Areas with mefenoxam or metalaxyl insensitive populations may see less efficacy with these products.

^{3.} Listed seed treatments do not have efficacy against Fusarium virguliforme, causal agent of sudden death syndrome.



















Preplant Control of Marestail

- One-shot burndown application in the spring
 - earlier better than later,
 but expect more variability in burndown efficacy
- Split burndown applications in spring
 - burndown + low rate residual in late March/early April
 - 2,4-D + glyphosate + metribuzin (4–8 ounces) or saflufenacil
 - burndown + remaining residual close to planting
 - paraquat or glufosinate + Authority or Valor

Marestail Control with dicamba 2016 burndown trial*

Treatment	Rate	Marestail Control		
	ae/acre	14 DAT	30 DAT	
Clarity	0.25 lb	67	91	
Clarity	0.375 lb	83	95	
Clarity	0.50 lb	91	99	
Glyphosate + 2,4-D	1.125 + 0.5	67	78	

^{*}Marestail ranged from 2–14 inches at time of application

Herbicides for Residual Marestail Control

- Sulfentrazone
 - Authority XL, First, Assist, Elite, MTZ, Sonic
- Flumioxazin
 - Valor, XLT, Gangster, Sonic, Fierce, Envive/Enlight
- Metribuzin
 - ► 8–12 oucnes per acre if the primary herbicide
 - ▶ add 6-8 ounces to sulfentrazone or flumioxazin-containing products
- Canopy, Boundary, etc. also contain metribuzin
 - ► add more metribuzin to reach 8–12 ounces as necessary

Update





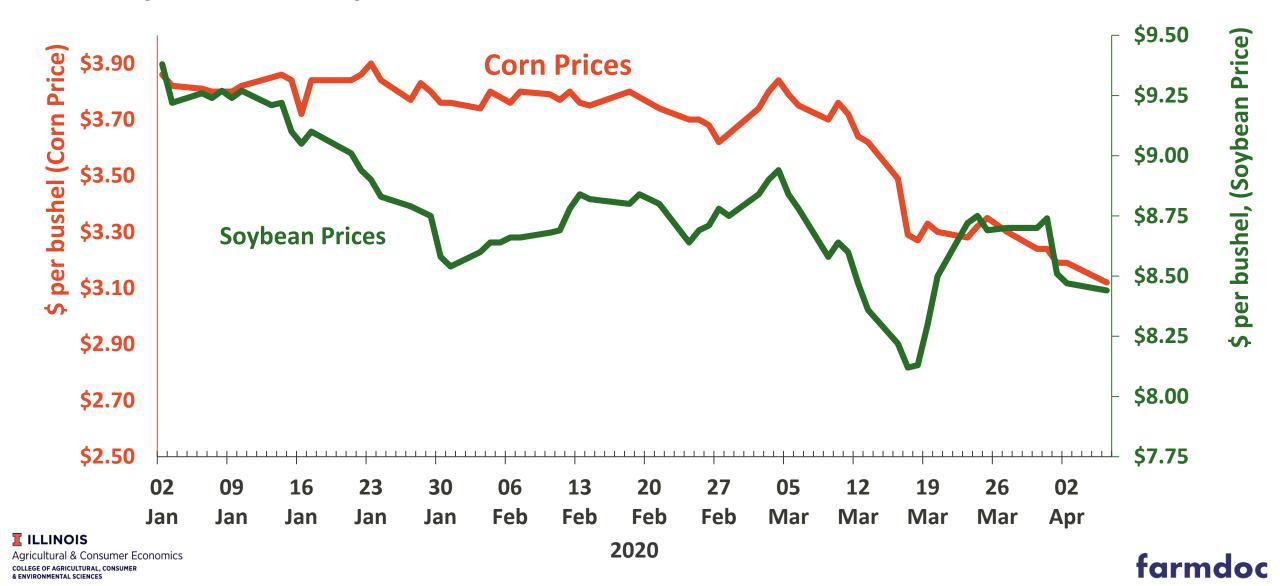
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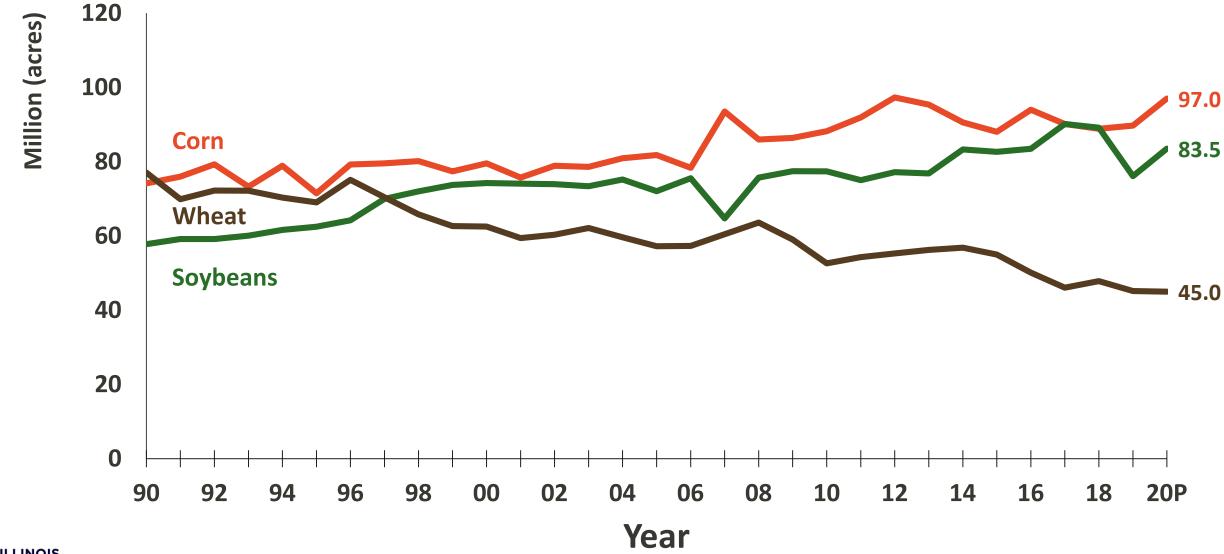
Gary Schnitkey

Soybean Industry Chair in Agricultural Strategy

Central Illinois Cash Corn and Soybean Prices January 2, 2020 to April 6, 2020



Planted Acres in the U.S., 1990 - 2020P



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Costs in Northern Illinois, Corn

Item	2018	2019	2020P
Fertilizers	126	134	125
Drying	15	28	15
Fuel and oil	21	17	16
Interest (non-land)	23	26	26
Total non-land	580	584	575

Will see lower costs in 2020

- Fertilizer, drying will likely lead the way
- No increase in depreciation
- Interest costs are increasing





Corn, Central Illinois, High-Productivity Farmland

		Year	
_	2018	2019	2020P
Yield per acre	237	208	215
Price per bu	\$3.60	\$3.84	\$3.30
Crop revenue	\$853	\$799	\$710
ARC/PLC	\$0	\$10	\$30
MFP	\$1	\$82	\$0
Crop insurance	\$2	\$10	\$0
Gross revenue	\$856	\$901	\$740
Total non-land costs	\$574	\$606	\$571
Operator and land return	\$282	\$295	\$169
Cash rent	\$274	\$275	\$275
Farmer return	\$8	\$20	-\$106





Soybeans, Central Illinois, High-Productivity Farmland

	ı Cai		
	2018	2019	2020P
Yield per acre	75	64	68
Price per bu	\$9.36	\$9.00	\$8.30
Crop revenue	702	576	564
ARC/PLC	0	10	30
MFP	122	82	0
Crop insurance	2	10	0
Gross revenue	826	678	594
Total non-land costs	353	372	359
Operator and land retu	473	306	235
Cash rent	274	275	275
Farmer return	199	31	-40





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Impacts of Covid-19 on Agricultural Assets and Lending Markets

11:00 to 11:30am CT, Friday April 10th

COVID-19 is affecting America's farmers, ranchers, and landowners in numerous and varied ways. Join Jackson Takach, chief economist with Farmer Mac, and Bruce Sherrick, Professor and Director of the TIAA Center for Farmland Research and a farmdoc team member, as they explore the drivers and linkages between the global pandemic, the related economic stoppage, farm assets, and agricultural finance.

Register at https://go.illinois.edu/fddLive





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