## Purdue

## 2019 Growing

 Season for Corn in IndianaDr. R.L. Nielsen
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## 2019: Many near-record achievements

- Planting progress statewide was among the 3 latest in past 40 years
- Nearly 710,000 acres not planted
- Silking and grain maturity were among 3 latest in 40 years
- Grain harvest $5^{\text {th }}$ latest in 40 years

- Season-long crop condition ratings were $4^{\text {th }}$ worst in 34 years


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## Statewide 2019 grain yield estimate was amazingly good!



> Only ~5\%
> below trend line yield!!


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## Lessons learned (mostly re-learned) in 2019...

- Late planting, by itself, does NOT guarantee disastrously low yields
- Modern hybrids are remarkablylresilient to a wide variety of crop stresses
- Soil compaction, resulting fromtithage and planting in wet soils, is a (wgif) (that keeps on giving all season long
- Rainfall during grain lifis still important
- Corn that matures in midftolate October takes forever and a day.to disy down


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## Our greatest agronomic challenge...


...is figuring out how to stress-proof our crops against "normal" weather.

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## "Normal" weather today...

...can be defined as an unpredictable number of unpredictable extreme weather events, each occurring unpredictably, with unpredictable severity.


## Strategies for stress-proofing your crop...

- More resilient crop genetics

Sound agronomic decision-making

- Identification \& mitigation of field-specific Yield Limiting Factors (YLFs)

