

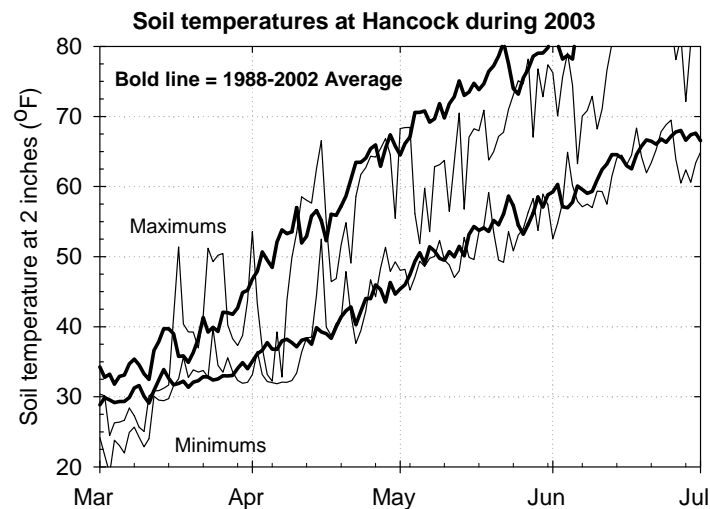
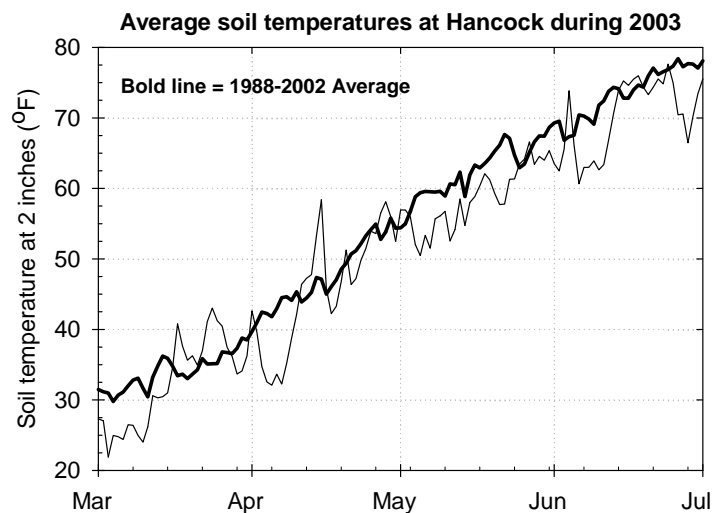
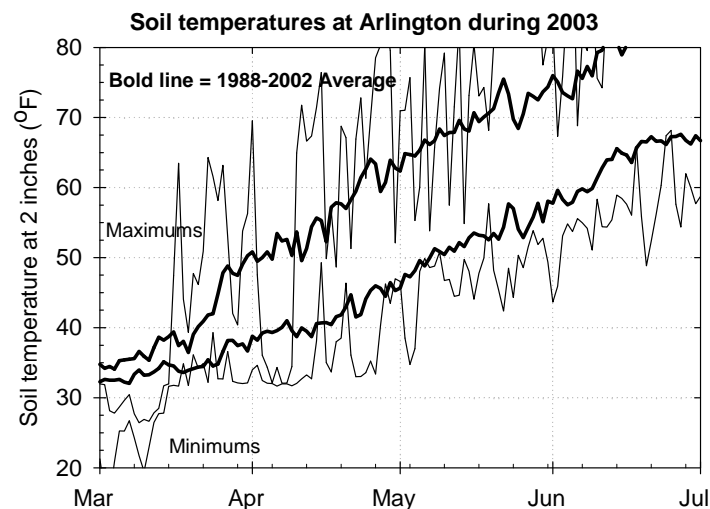
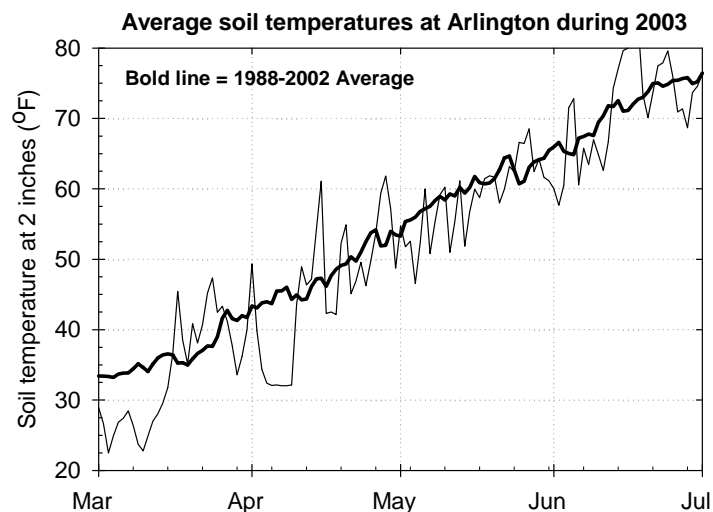
# Weather Considerations

- ❑ The predictable thing about weather is that it is unpredictable.
- ❑ Good weather in early spring usually means more than average number of days suitable for planting.
  - ✓ No guarantees!
  - ✓ Soil sufficiently dry and subsequent rainfall less likely to saturate soil.
- ❑ Decision to begin planting depends upon personal approach to risk.
  - ✓ About half of the days during April and May are suitable for fieldwork.
- ❑ Should the decision be base upon soil temperature?

# Should Soil Temperature or Calendar Date be used to Begin Planting? Answer: Probably both!

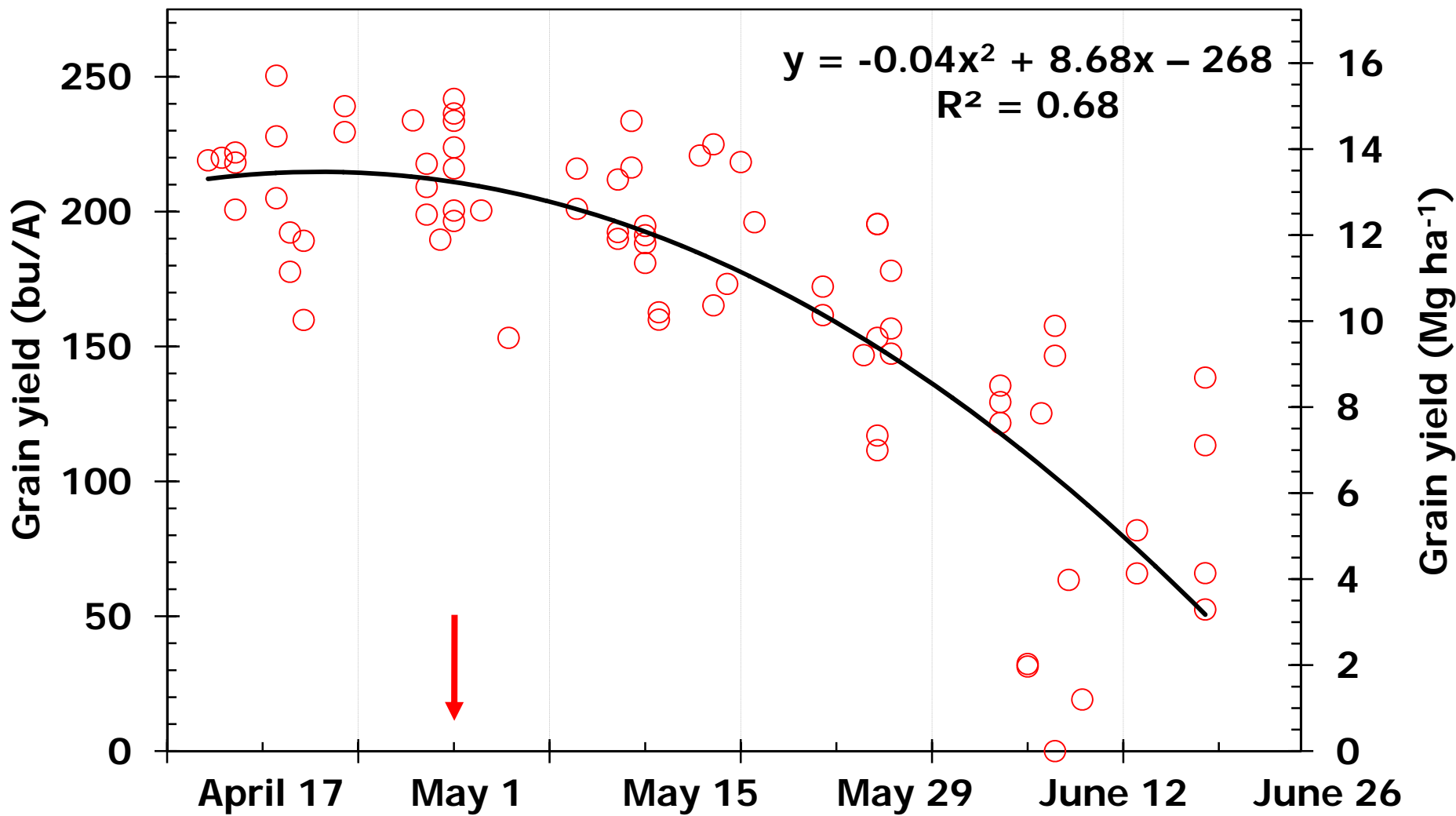
- ❑ For germination and emergence of corn, the seed needs water, oxygen and a minimum temperature of 50 °F.
  - ✓ Requires seed-soil contact for water uptake.
  - ✓ Seed absorbs 30% of it's weight in water.
  - ✓ Under average spring conditions corn emerges 13 days after planting.
- ❑ Difficult to use soil temperature as a guide to begin planting.
  - ✓ When should soil temperature be measured?
- ❑ If soil temperature isn't ideal for planting, it soon will be.
- ❑ Soil moisture is more important than soil temperature.
  - ✓ Monitor top 6 inches for soil moisture.

# 2003 Soil Temperatures at Arlington and Hancock

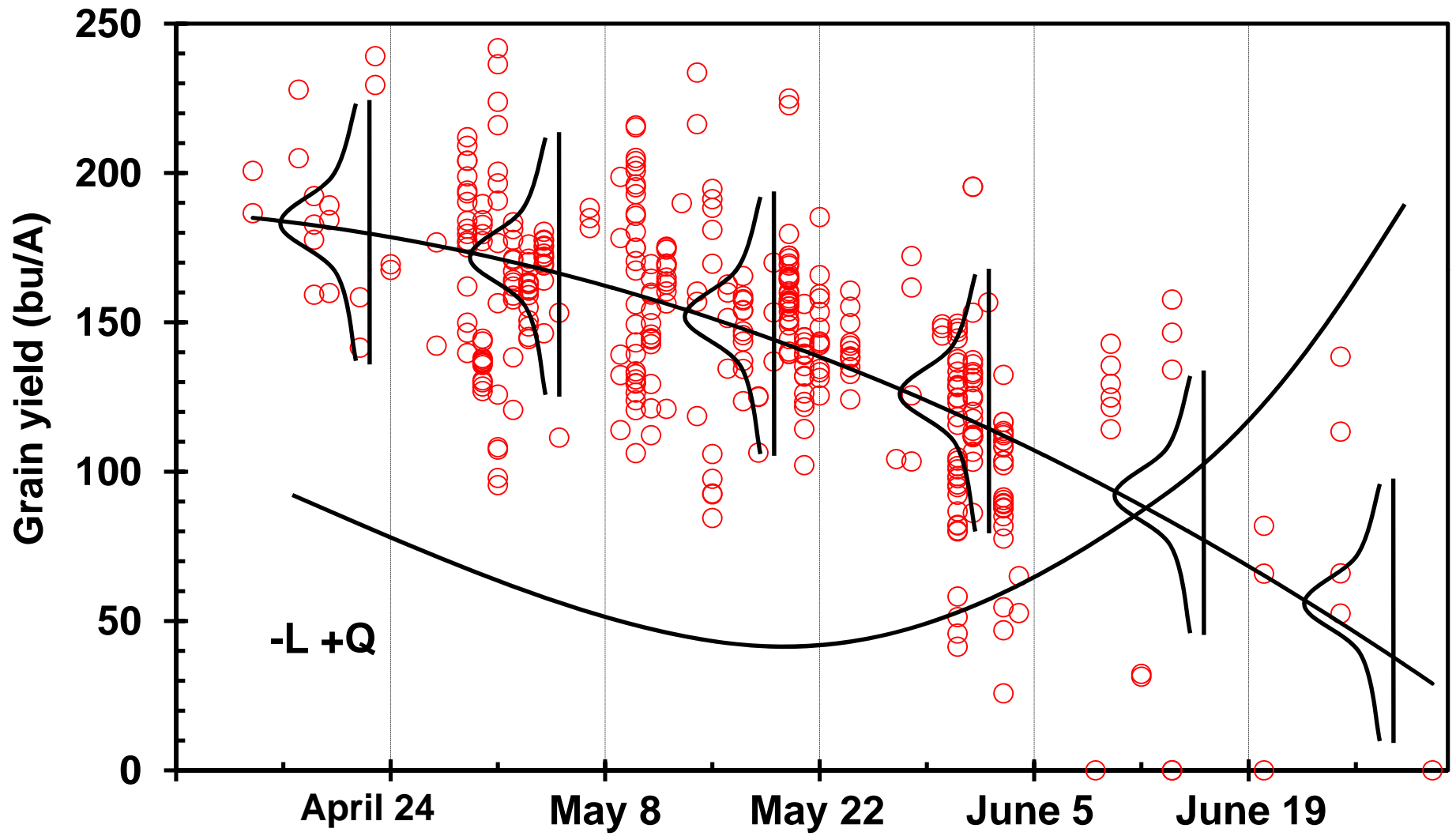


# Grain yield decreases 0.5 bu/A per day on May 15 and accelerates to 2.5 bu/A per day on June 1 ...

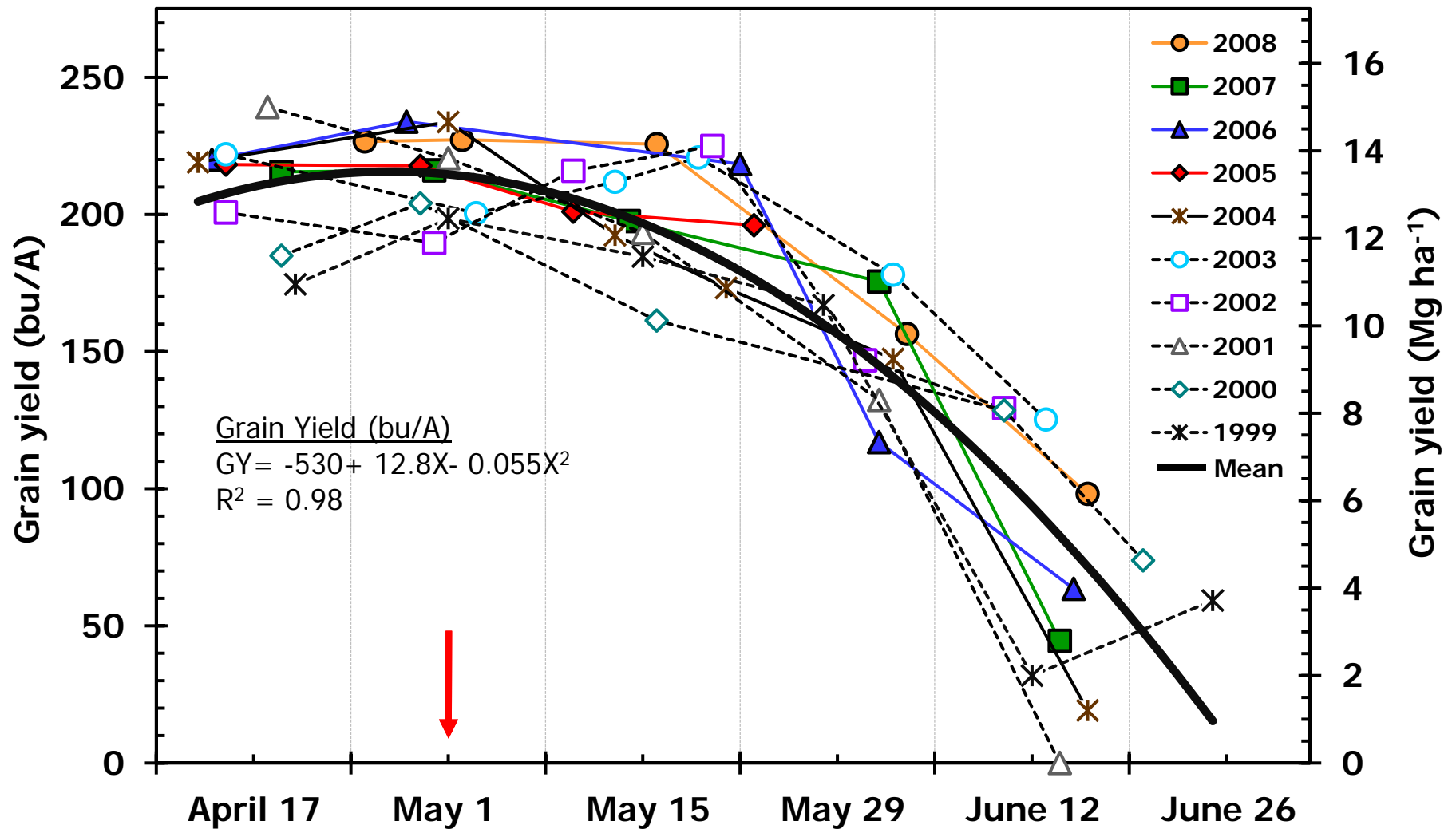
Source: Lauer (Full-season hybrid at Arlington 1997-2006)



# Grain Yield Response of Full-Season Corn Hybrids to Planting Date at Arlington (1976-2002)

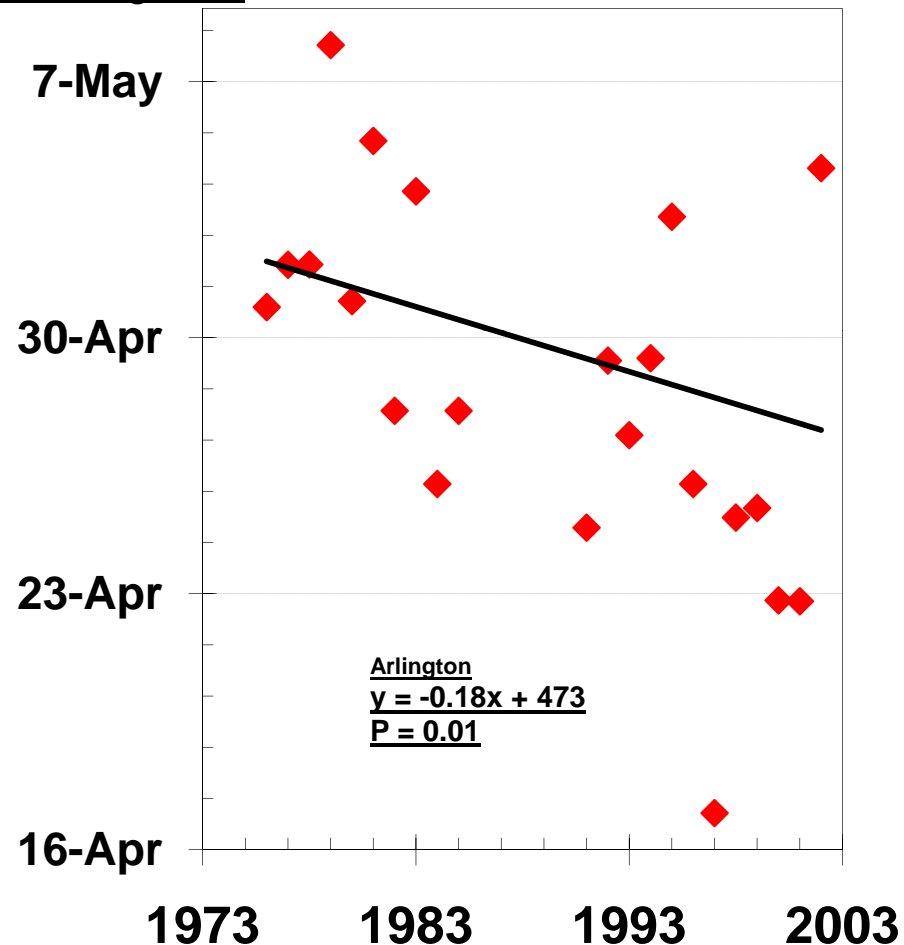


The planting date producing maximum grain yield is May 1. Grain yield decreases 0.5 bu/A per day on May 15 and accelerates to 2.5 bu/A per day on June 1.



# Are Optimum Planting Dates Getting Earlier?

Planting date



- Yes, current optimum planting dates are 5 days earlier than 1974
  - ✓ Criteria: 10 or more years of data at a location
    - Arlington, WI = 5 days
    - Johnston, IA = 4 days