



# Replant Decisions

---

Spring 2017



# What causes the need to replant corn?

- Cold weather or excessively wet weather, or especially a combination of the two can cause many problems in a corn field, including:
  - Diseases such as seedling blight
  - Uneven emergence of plants
  - Non-emerged plants causing inconsistent stands
  - Ponding/excessive water flow
- There can also be manmade issues causing problems such as herbicide drift or mechanical failures.





# What factors in to the replant decision?

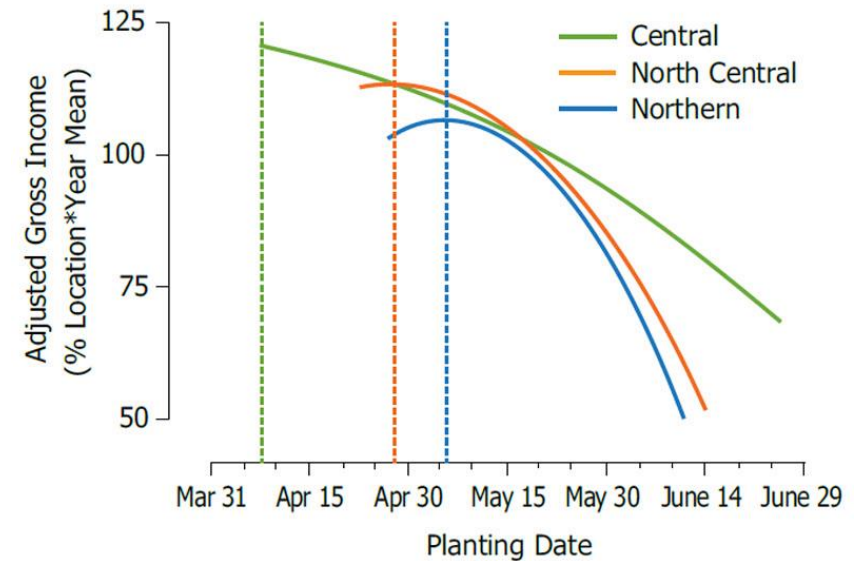
- The most important thing to evaluate is what the crop looks like and whether or not it still has high enough yield potential to save
  - The primary method for determining this is a stand count. This is done by measuring off a  $1/1000^{\text{th}}$  of an acre strip at random and counting how many plants are viable in that strip. These counts are taken in multiple places across the field to represent a good sample of the average population in the field.



The picture on the left shows a great stand, with proper spacing and even emergence. The picture on the right shows uneven stages and multiple skips. The field on the right would be a good candidate to replant.

# What factors in to the replant decision?

- Timing
  - Timing of corn planting is critical to reaching full yield potential. Therefore, when considering replanting, it is crucial to make sure that it is still early enough in the season.
- Weather
  - It is important to make sure that when you are ready to replant, that the upcoming forecast is still conducive to having plenty of time to get the new crop in.



This chart shows the income curve vs. planting date for different regions in the corn belt. Note the steep drop off around the end of May.



# What factors in to the replant decision?

---

- The last thing to consider in a replant decision is the costs of the replanting operation. The operation will require a tillage and planter pass, and possibly another herbicide application. Obviously, more seed will be needed for what is to be replanted.
- There are ways to minimize these costs. Crop insurance offers coverage that applies to cover some of these costs. Also, many seed companies now offer free seed if it is to be used for replanting.



# What factors in to the replant decision?

- Once determining the stand and viability of the corn crop, it is important to use agronomic tools like the chart on the right to determine what the right thing to do is.
- The box on the chart represents the timings and populations that should make for a practical corn crop. These are stands that have at least 25,000 plants per acre and are planted before May 20.

Planting Date	Plant Population (1000 plants/acre)						
	10	15	20	25	30	35	40
	----- % of maximum yield -----						
April 1	54	68	78	88	95	99	99
April 10	57	70	81	91	97	100	100
April 20	58	71	81	91	97	100	99
April 30	58	70	80	89	95	97	96
May 9	55	68	77	86	91	93	91
May 19	50	63	72	80	85	86	84
May 29	44	56	65	73	77	78	75
June 8	35	47	56	63	67	67	64



# Making the Decision

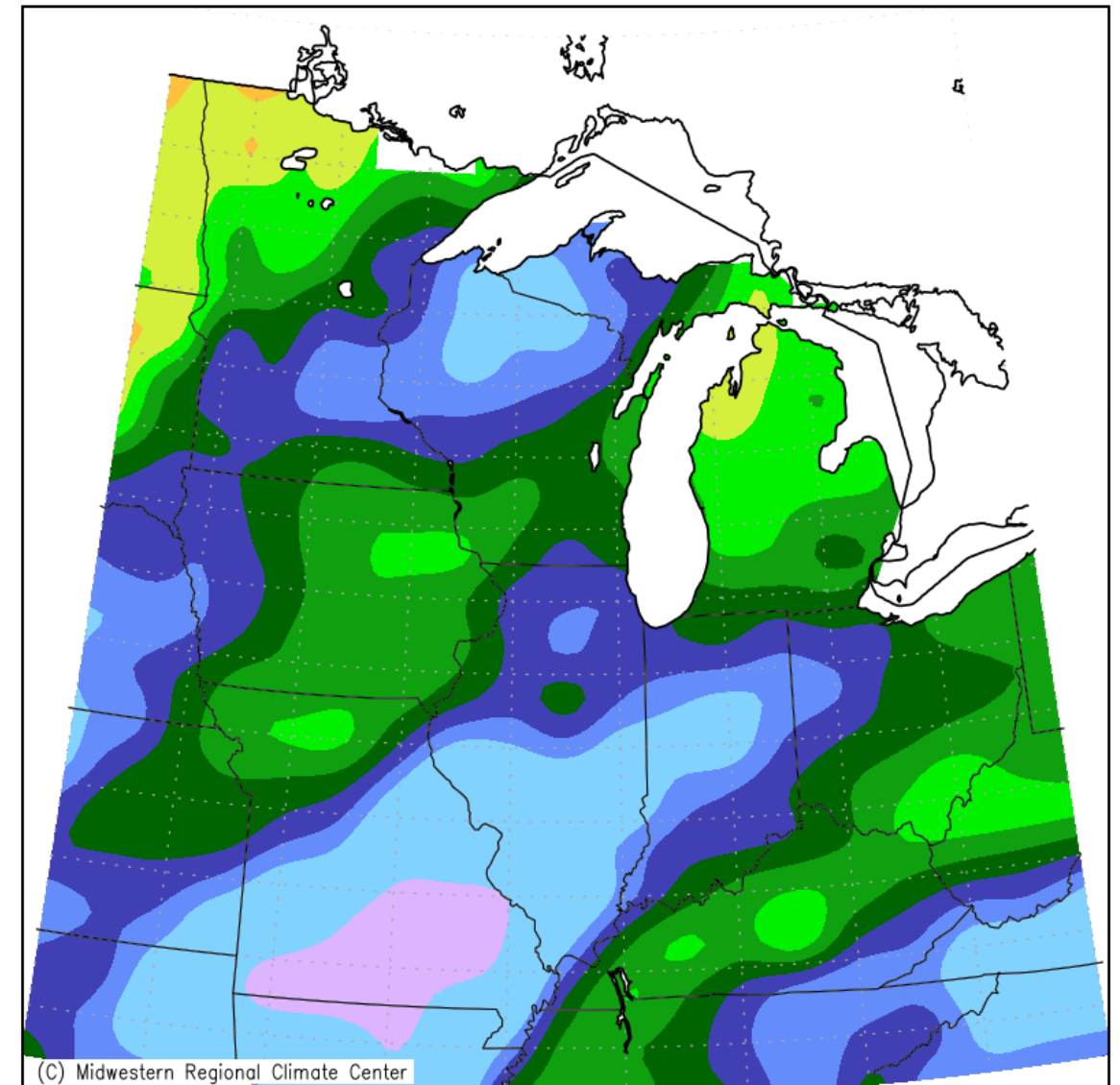
---

- It is important to weigh all the factors mentioned above in making the decision to replant. Deciding to replant a pond that is completely bare is pretty easy, but it can be very difficult to tear out entire fields and replant them.
- When making the replant decision, many people are often asked to weigh in. This might include the seed dealer, the crop insurance agent, farm managers, professional agronomists, and any other operation partners.



# Replant 2017

- The spring of 2017 across Western Indiana has been especially wet, accompanied by slightly below normal temperatures. The timing of this weather has had an adverse effect on much of the corn crop.
- The map at the right shows the deviations from normal precipitation for the planting season. As you can see, much of Indiana has had 2-3x as much as normal rainfall amounts.
- This has led to record setting amounts of replant in the area. Whole fields, and in some cases entire farm operations are being torn out and replanted.



Mean period is 1981–2010.





For any other  
agronomy questions  
you have about your  
farm, feel free to  
contact us :

[farmfirstllc.com](http://farmfirstllc.com)

(765) 583-4223



**Farm First, LLC**

**Real Estate Services**