



I don't want to talk about 2019...but we have to

Joe Ikley

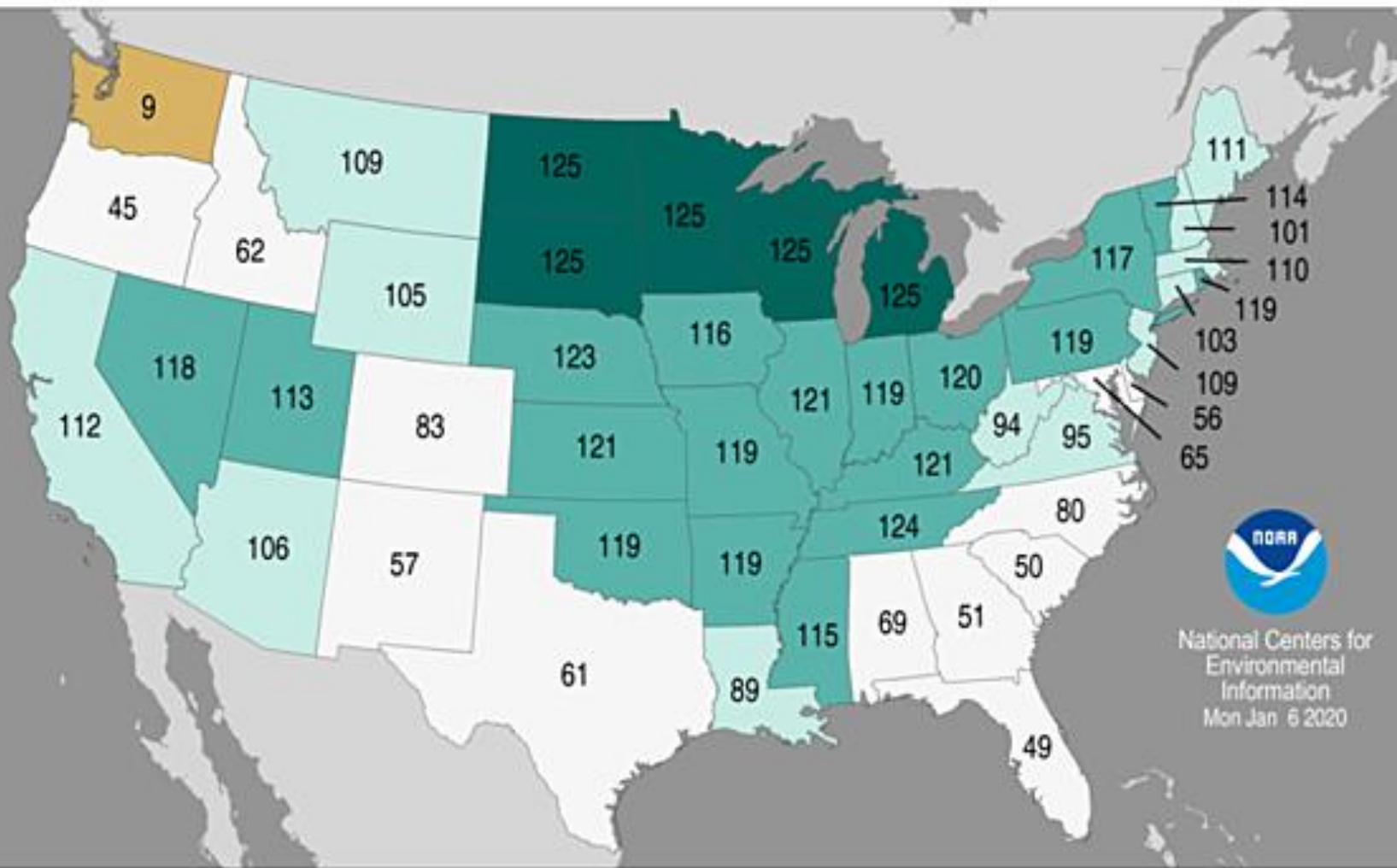
Extension Weed Specialist

2/14/2020

Statewide Precipitation Ranks

January–December 2019

Period: 1895–2019



National Centers for Environmental Information
Mon Jan 6 2020



Record Driest



Much Below



Below Average



Near Average



Above Average



Much Above Average



Record Wettest (125)

North Dakota Weed Issues – 2019

- Prevent Plant
- Waterhemp
- Palmer amaranth
- Wet fall set up issues for 2020
 - Horseweed (marestail)
 - Narrowleaf hawksbeard

PP Weed Issues in 2019

- Waterhemp and horseweed (marestail) prevalent in many PP fields
- Many fields not touched until late July
 - Waterhemp already setting seed
- Palmer amaranth popping up in millet fields
- Fall moisture increased germination of winter annuals (including horseweed)

How to Avoid 2019 PP Issues

- Attempt weed control as soon as insurance allows
- Cover crops to help suppress summer annual weeds
 - Too late for winter annuals
- High likelihood of PP in 2020 = higher risk of contaminated cover crops

Weed Control in PP

- Try to keep things cheap
 - Residuals may not pay if no cover is established
 - Gramoxone, 2,4-D, dicamba, glyphosate good program bases
 - Be aware of OTM for later applications
- Use group 4 herbicides in grass cover crops
- Use group 1 herbicides in broadleaf cover crops

Gramoxone During Inversion



Palmer Amaranth

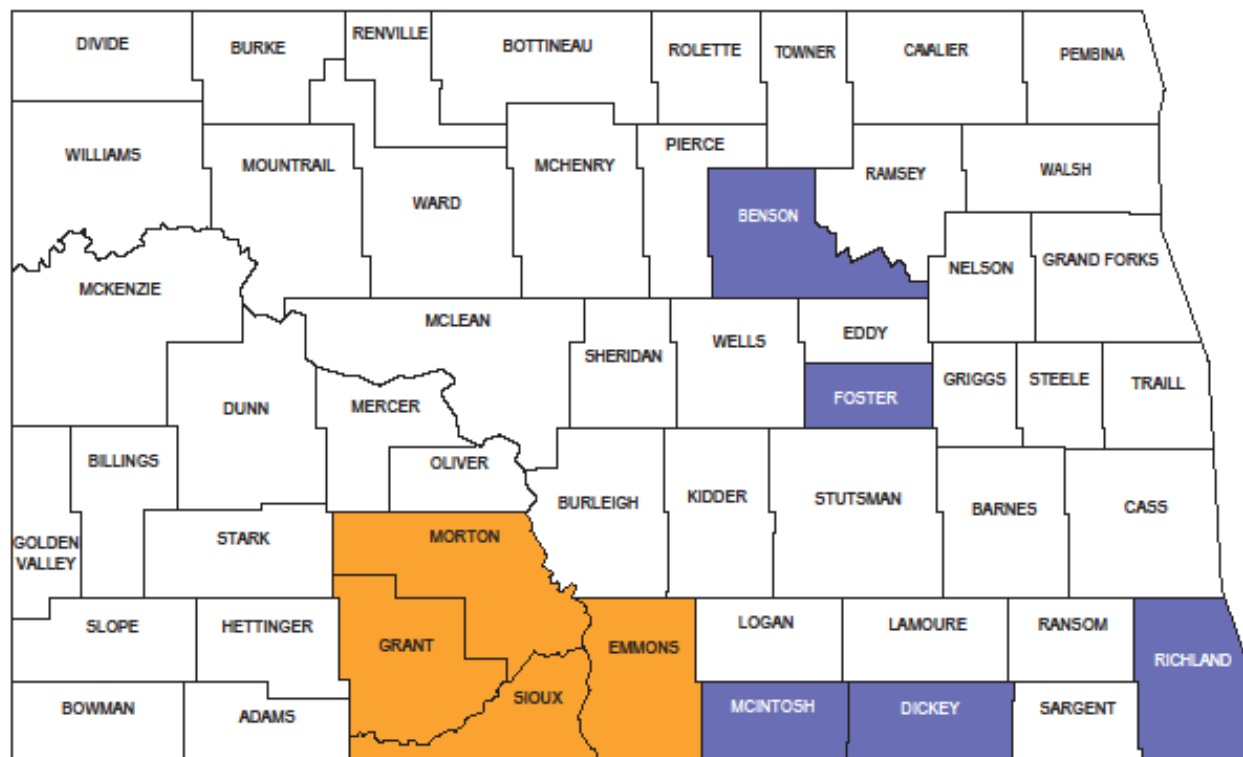


Waterhemp



Palmer 2019 Update

North Dakota Department of Agriculture Palmer Amaranth Distribution



Lab confirmed positive for Palmer amaranth

■ 2018
■ 2019

As of 10/15/19





USDA sets web seminar session for hemp

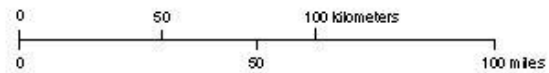
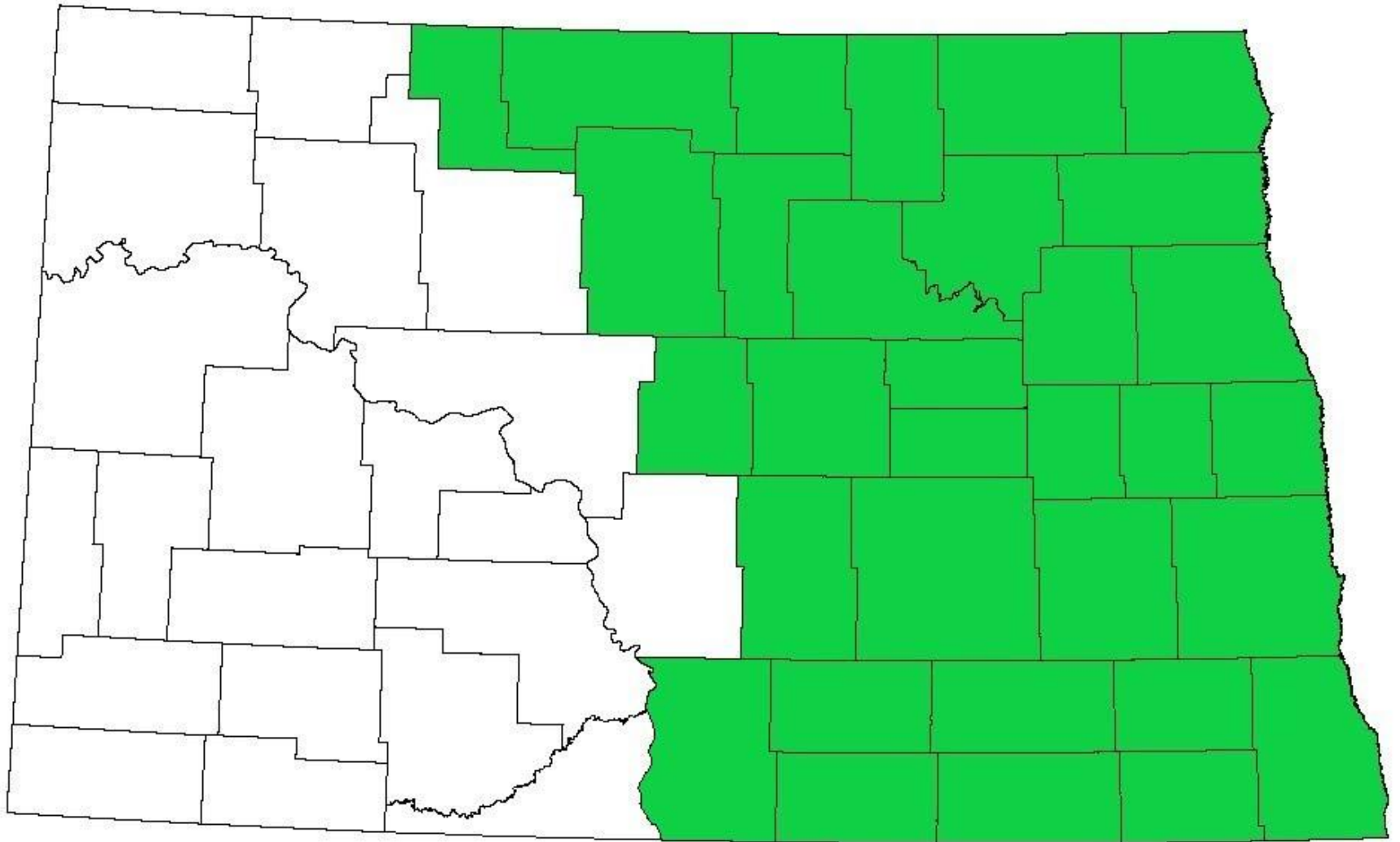
March 5, 2019 11:27 AM



(File photo)

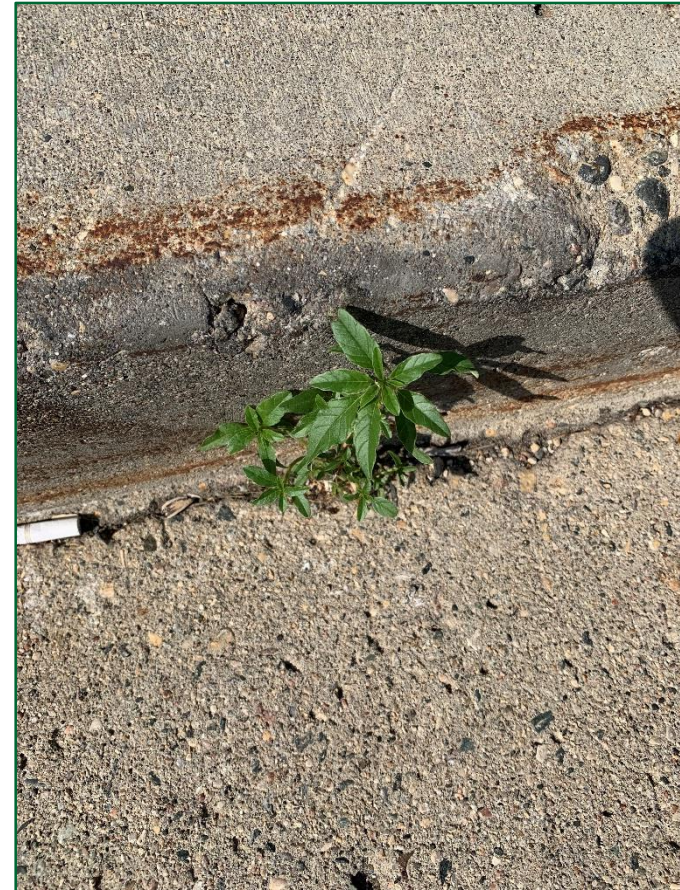
March 13 is the date for a U.S. Department of Agriculture web listening session that will help the agency gather public comments about a new program to regulate hemp production.

NORTH DAKOTA



Waterhemp Issues in 2019

- Delayed planting (many skipped a PRE)
- Saturated fields
- Drowned out areas
- Prevent Plant

















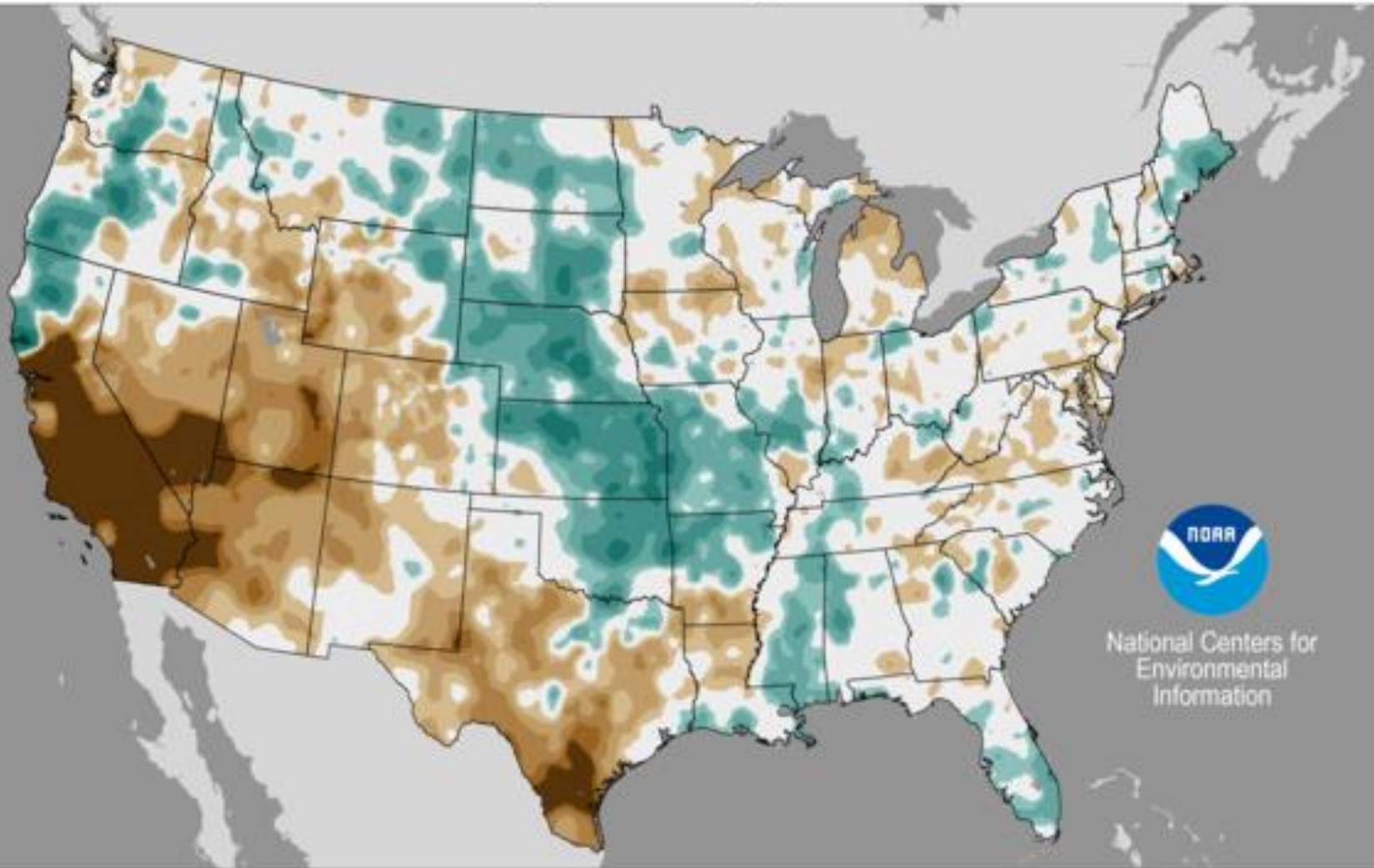




Precipitation Percent of Average

August 2019

Average Period: 20th Century



National Centers for
Environmental
Information



50 75 100 125 150 200 300 500

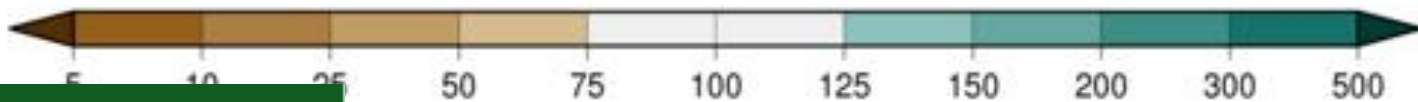
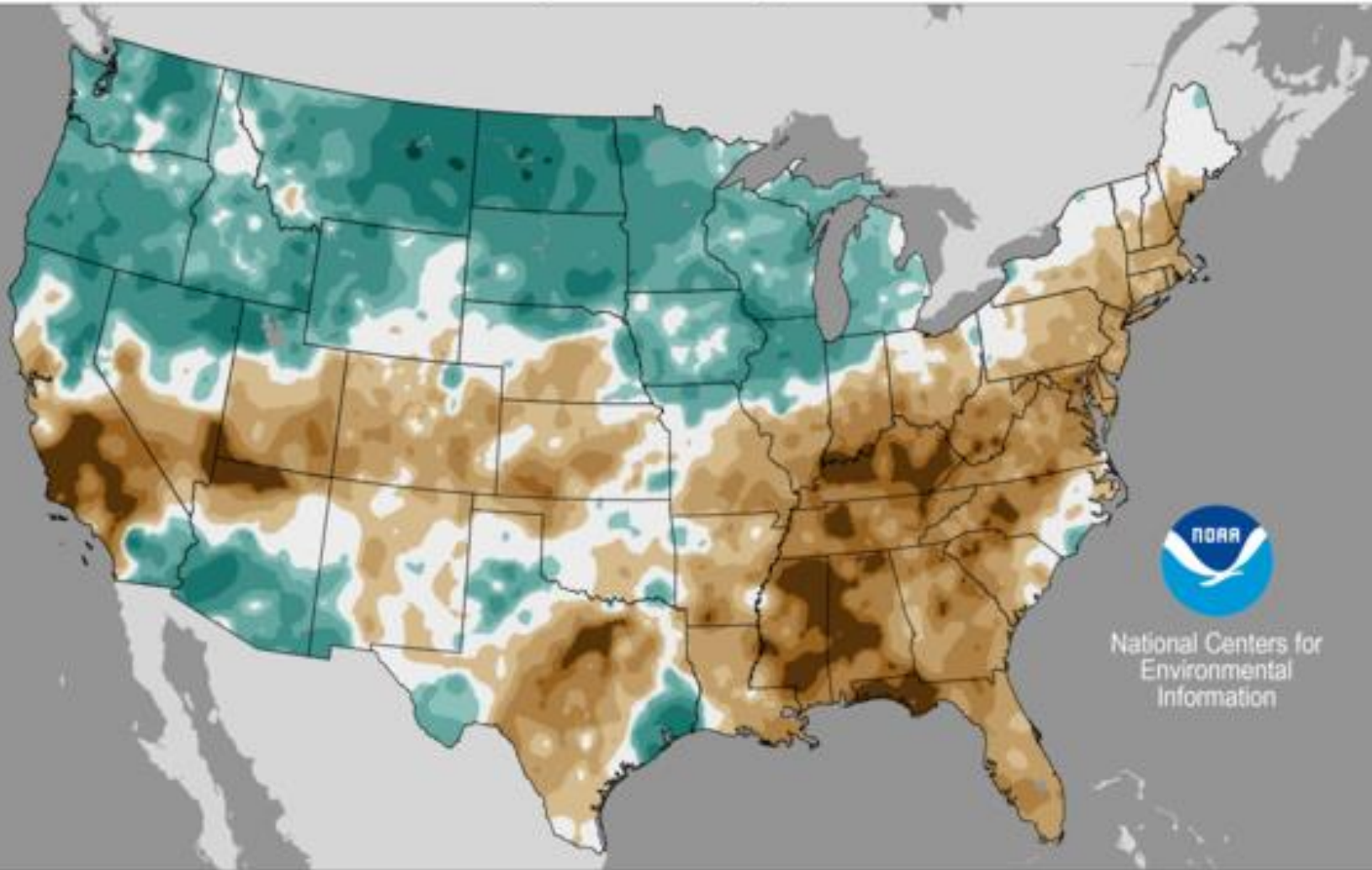
Percent

Data Source: 5km Gridded (nClimGrid)

Precipitation Percent of Average

September 2019

Average Period: 20th Century



Percent

Data Source: 5km Gridded (nClimGrid)

Horseweed (Marestail)

A photograph of a soybean field. The majority of the plants are green soybeans with characteristic trifoliate leaves. Several tall, slender plants with yellow, spiky flower heads are scattered throughout the field, identified as horseweed (Marestail). The background shows a line of trees under a clear sky.

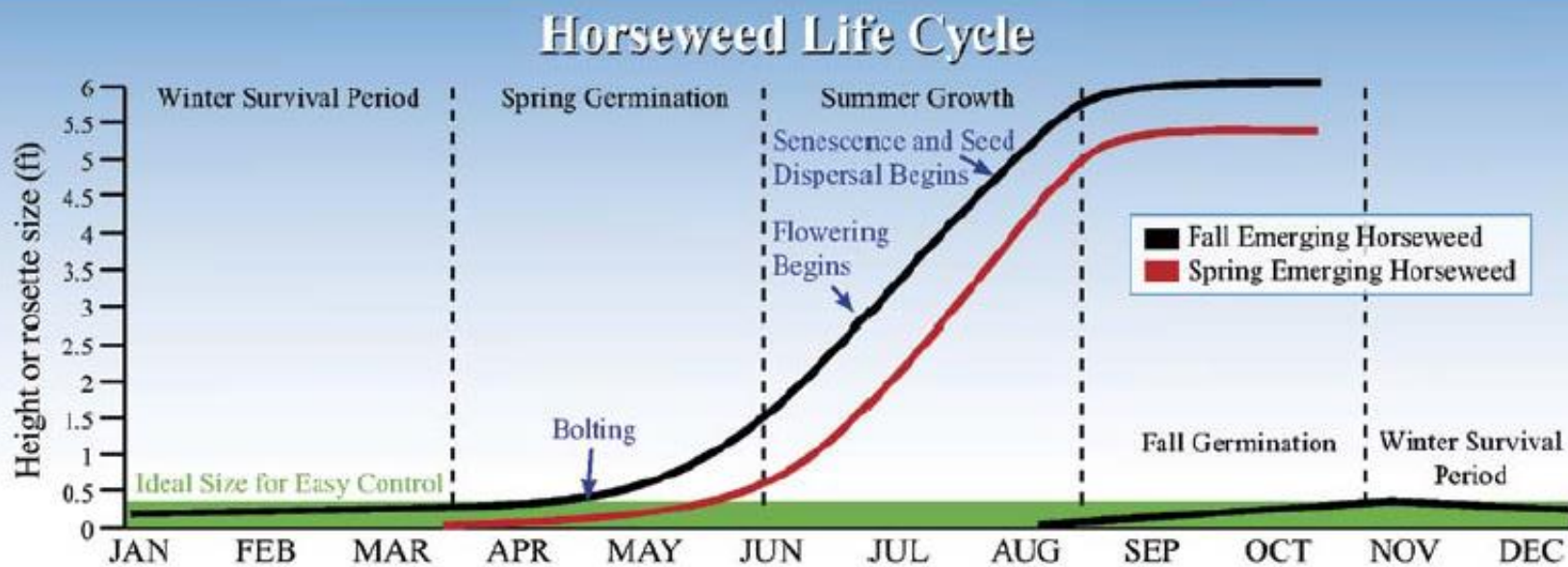


Figure 4. This graph shows the relative life cycles of horseweed throughout the year for plants that emerge in the spring and fall.



Marestail Management Principles

- Field must be free of marestail at time of planting
 - Burndown control tougher in the spring
 - Paraquat + metribuzin + group 4, Sharpen products
 - Do not rely on glyphosate or 2,4-D alone
 - Dicamba and Elevore slightly better than 2,4-D
- Need residual marestail control for 6 to 8 weeks after planting
 - Apply residual (PRE) herbicides in spring
 - Broad-spectrum products that contain full rate of metribuzin (5 oz or more), Valor, Authority
- If you have “multiple resistant” glyphosate and ALS resistant marestail
 - Grow corn or wheat
 - Only POST options for broadleaf crops are Liberty, Dicamba, and Enlist HR crops



Narrowleaf Hawksbeard Control

Photo: Ed Davis
Montana State
University

Narrowleaf hawksbeard control

Fall:

1. Glyphosate + Express (or Panoflex) + (2,4-D)
2. Glyphosate + Sharpen + (2,4-D)
3. Glyphosate + (2,4-D)
4. Glyphosate + dicamba (be aware of rotation restrictions)
5. Glyphosate + Valor + (2,4-D)

Spring:

1. Glyphosate + Sharpen (rosette stage)
2. Glyphosate
3. In-crop wheat: Affinity BS + 2,4-D, GoldSky, Starane Flex + 2,4-D
- WideMatch + 2,4-D not sufficient



A Love Letter to Weeds

The pigweeds are scary.

This we all know.

But kochia reigns king.

Watch our tumbleweeds blow.