

# WEED MANAGEMENT IN WHEAT

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# Weeds Infesting Wheat

annual bluegrass

ryegrass

cheat/bromes

little barley

wild oat

canarygrass

mustards

buttercup

eveningprimrose

thistles

henbit

geranium

chickweed

clover

medics

dock

garlic

onion

thistles

bindweed

nettle

# Economic Losses from Weeds

- Reduced yield
  - Competition for water, nutrients and light
- Quality
  - Onion, garlic, ryegrass, and cheat
- Harvest efficacy
  - Dock
- Serve as alternate host for insects and disease agents

# Weed Competition is Most Severe When

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- Resources are limited
- Weeds emerge with wheat
- First six weeks are critical

# Weed/Wheat Competition in Louisiana

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- Solid seeded
- Moisture not usually limiting
- Nutrients??
  - Stand establishment is critical
- Light??
  - Stand establishment is critical

# Methods of Weed Control

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- Preventive – use clean seed
- Cultural control – seeding rate
- Mechanical – seedbed preparation
- Chemical

# Chemical Weed Control

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2,4-D

2,4-D+dicamba

Harmony Extra

Sencor

Hoelon

Osprey

# 2,4-D

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- Rate: 1 to 2 pts/A
- Timing: Fully tillered until jointing
- Adjuvant: 0.25% NIS
- Weeds: Most broadleaf weeds, suppresses onion and wild garlic

# 2,4-D+Dicamba

- Rate: 0.25 pt dicamba  
1-2 pt 2,4-D
- Timing: Fully tillered until jointing
- Adjuvant: 0.25% NIS
- Weeds: More effective on wild garlic and onion

# Harmony Extra

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- Rate: 0.3 to 0.6 oz/A for wheat & barley
- Timing: 2-leaf until 3 node
- Adjuvant: 0.25% NIS
- Weeds: Controls garlic and most broadleaf weeds

# Sencor

- Use a metribuzin tolerant variety
- Rate: 3 oz, 2 lf to 2 tillers  
5 oz, 3 to 4 tillers  
8 oz, 4 tillers
- Adjuvant: 0.25% NIS (will increase injury)
- Weeds: Annual bluegrass, some broadleaves, suppresses ryegrass

# Hoelon

- One application before jointing, no tank-mixes
- Rate: 1.33 pt/A for 1-3 lf ryegrass  
2.0 pts/A for 3-4 lf ryegrass  
2.66 pts/A for 4 lf to 2 tiller ryegrass
- Adjuvant: 1 to 2 pts COC, avoid cool wet weather
- Weeds: ryegrass

# Osprey

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- Applied from emergence through jointing
- Rate: 4.75 oz/A
- Adjuvant: MSO, Basic Blend, NIS + UAN
- Weeds: Annual bluegrass, ryegrass, some broadleaves
- Can be tank mixed with Harmony Extra

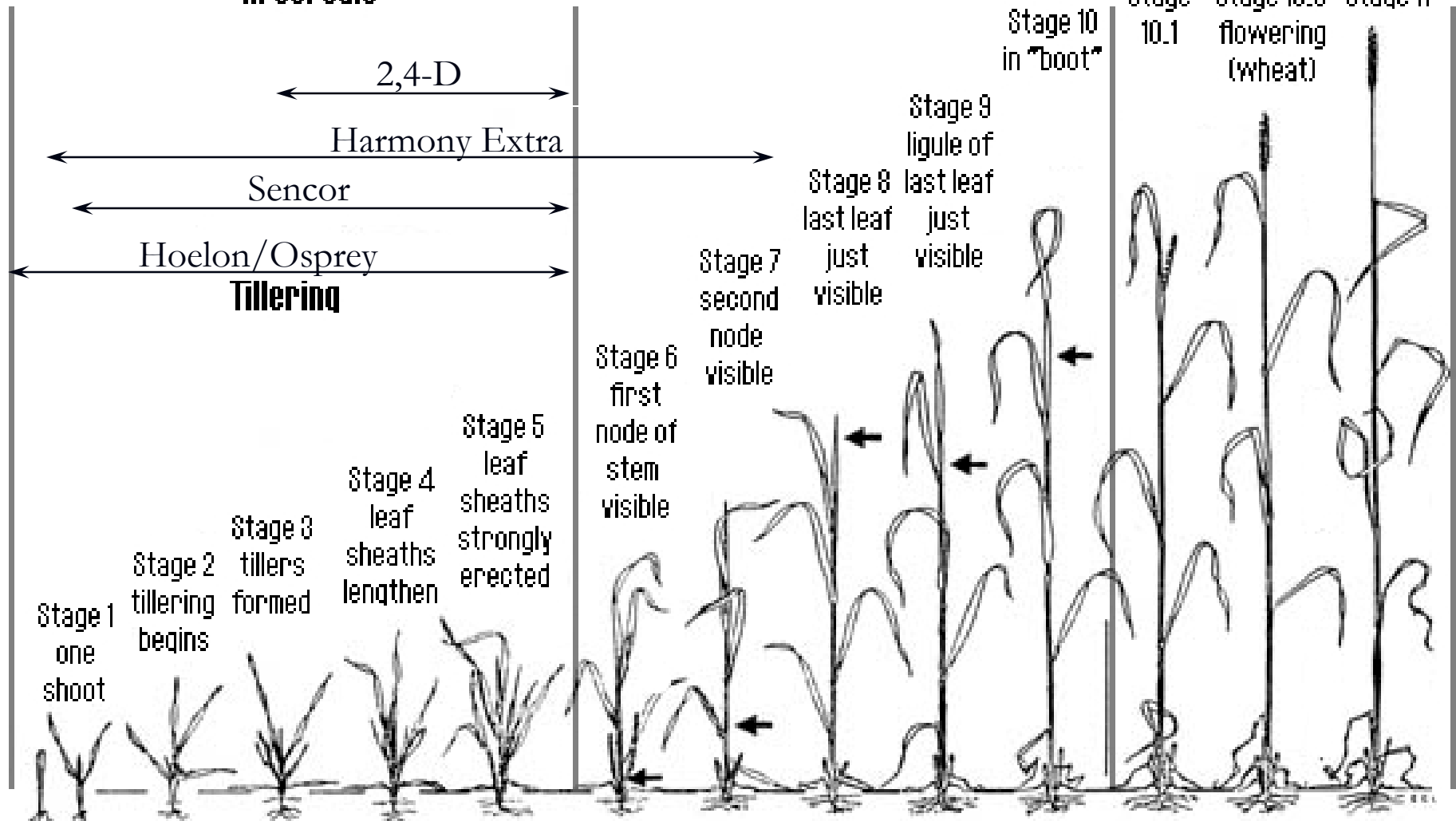
# Wheat Growth Stages (Feekes)

## Growth Stages in Cereals

## Stem Extension

## Heading

## Ripening



# Ryegrass Control

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- Sencor
- Hoelon
- Osprey

# Wild Onion/Garlic

- 2,4-D amine, 1 qt; after tillering, before jointing
  - Ester formulation is more effective in some situations
- Harmony Extra, 0.5 to 0.6 oz, garlic < 12”
- 2,4-D (1.5 pt) +dicamba (8 oz), more effective, increase risk
- Peak-0.25 to 0.5 oz garlic < 6-8”

# Herbicides Evaluated

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Newpath (Clearfield wheat)

Prowl

Axiom

Osprey

Achieve

Everest

Whip

Stam

Peak

Registered products

# Make Weed Control Pay

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- Establish a good stand
- Plant on time
- Identify weeds early
- Make early herbicide applications
- Don't wait until February