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# Rice Technical Update

LATMC  
February 15, 2018

# Residual Weed Control In Rice

- **Control weeds before they emerge**
- **Reduced weed competition for cleaner crop**
- **Protects yield production**
- **Economical weed control**

# Residual Weed Control In Rice

Herbicide	Active	Rate	Method of Application	Target Weeds
<b>Newpath</b> Herbicide for Clearfield® Rice	Imazethapyr	4 to 6 fl ozs/A	Preemergence or early postemergence prior to 5-leaf rice stage	Postemergence and residual control of red rice, barnyardgrass and other weeds.
<b>Clearpath</b> Herbicide for Clearfield® Rice	Imazethapyr + Quinclorac	0.5 to 0.72 lb/A	Early postemergence prior to 5-leaf rice stage (dry-seeded)	Residual control of grasses including red rice, barnyardgrass, broadleaf signalgrass and hemp sesbania. Also Postemergence control of red rice and other weeds.
<b>Facet L</b> Herbicide	Quinclorac	22 to 43 fl ozs/A	Soil applied to mid-postemergence rice stage	Burndown and residual control of barnyardgrass, broadleaf signalgrass, hemp sesbania and other weeds
<b>Prowl H20</b> Herbicide	Pendimethalin	2 pt/A	Delayed PRE or Early Postemergence	Residual control of grasses including junglerice, sprangletop and barnyardgrass
<b>Sharpen</b> Powered by Kixor® Herbicide	Saflufenacil	2-3 fl oz/A	Preplant or Preemergence	Burndown and residual control of broadleaf weeds including palmer amaranth, pigweed, morningglory

# Sharpen® Herbicide

## Rice Recommendation

**Sharpen®**  
Powered by **Kixor®** Herbicide

### Preemergence:

- Sharpen 2.0 fl oz/A (+ Command)

# Sharpen<sup>®</sup> Herbicide

## Rice Recommendation

**Sharpen<sup>®</sup>**  
Powered by **Kixor<sup>®</sup>** Herbicide

### Preemergence:

- Sharpen 2.0 fl oz/A (+ Command)
- **Sharpen 3.0 fl oz/A (+ Command)**
  - Additional suppression of annual sedge
  - Extended residual of broadleaf weed control
  - Increased efficacy of multiple broadleaf weeds
  - More economical than some postemergence herbicides



# Provisia™ Rice System

Newest Trait System for Red Rice Control in Rice



## Variety: PVL01

- Discovered by BASF
- Developed by LSU
- Marketed by Horizon Ag
- Launch in 2018



# ALS Resistant or “Weedy” Rice Infestation

## Severe Impact

- Yield reduction of >30%
- Quality losses of >15%

## Moderate Impact

- Yield reduction of up to 30%
- Quality losses up to 15%

## Slight Impact

- Scattered plants



# Provisia™ Herbicide

## Newest Trait System for Red Rice Control in Rice

**Provisia™**  
Herbicide

### **Superior Grass Control**

- Controls red rice and ALS resistant rice biotypes
- Controls barnyardgrass, sprangletop, broadleaf signalgrass and other grasses
- New herbicide mode of action for use in rice weed control programs

### **Flexible**

- Limited rotational restrictions
- Ability to plant more rice (rice-rice-soybean rotation)

### **Resistance Management**

- Supplements Clearfield Rice Production System



# Provisia™ Herbicide

## Application

Provisia™  
Herbicide



















- **Provisia Herbicide use rate of 15.5 fl oz/A sequentially; not to exceed 31 fl oz/A per year**
- **Early Post is the most critical timing of application**
  - ▶ Small rapidly growing weedy rice and grasses
  - ▶ Reduce the impact of weed competition
- **Sequential application is essential for complete weedy rice control**
  - ▶ Mid-Post (rice is tillering / just prior to flood) is preferred
  - ▶ Late Post (prior to PI) can be effective – crop canopy interference
- **Tank mix partners for residual grass, broadleaf and sedge control**
  - ▶ Potential for antagonism – greatest with auxin or contact herbicides
  - ▶ Sequential application of Provisia alone provides control

# Provisia™ Rice System

## Stewardship – Rotations

*If only planting Provisia rice, Clearfield® rice and soybeans*

### Rotation Options Prior to Planting Provisia Rice

Last Year 2017	Year 1 2018	Year 2 2019	Year 3 2020	Year 4 2021	Year 5 2022
Soybeans	 Provisia™ Rice System	Soybeans	 Clearfield® Production System	Soybeans	 Provisia™ Rice System
 Soybeans (with severe ALS resistant rice)	 Provisia™ Rice System	Soybeans	 Provisia™ Rice System	 Clearfield® Production System	Soybeans
Soybeans (in maximum rice production system)	 Provisia™ Rice System	 Clearfield® Production System	Soybeans	 Provisia™ Rice System	 Clearfield® Production System
 Clearfield* Production System	Soybeans	 Provisia™ Rice System	 Clearfield® Production System	Soybeans	 Provisia™ Rice System
 Clearfield* Production System Multiple years	Soybeans	Soybeans	 Provisia™ Rice System	 Clearfield® Production System	Soybeans

\*Treated with Newpath, Clearpath or Beyond herbicides

 **BASF**

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