Use of Provisia, Loyant and Gambit Herbicides in Rice – A Program Approach

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Overview of Weed Management Research

- 8 Experimental herbicides
- Provisia rice Tolerance evaluation
- Continue to evaluate Provisia antagonism
- Adjuvants with Provisia to overcome antagonism
- Drift of Provisia to conventional rice
- Residual Herbicide programs
- How does Loyant fit systems
- How does benzobicyclon fit systems
- RiceOne interaction research

Provisia Rice

PVL-01 Injury





Rice Injury Following Provisia at 31 oz/A







Antagonism is an Issue









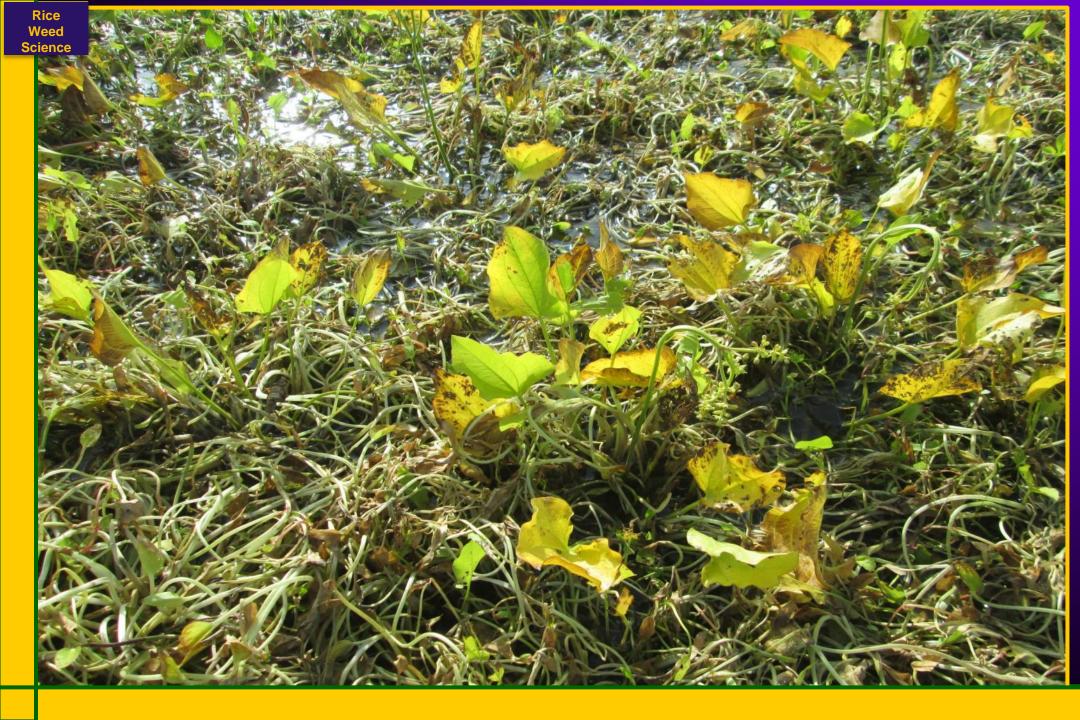
How to use Provisia Rice

- Excellent option for weedy rice and common grass weeds
- Use residual Command appropriate rate + Sharpen 2 oz/A, Prowl, RiceOne
- 13 to 18 oz/A Provisia 1st application, not to exceed 31 oz/A total
- Add high quality COC at 1% v/v
- Wait 10 days after first application, Pl cutoff
- Evaluated reduced rates, not labeled
- Adequate moisture needed, flood at application not necessary
- Avoid mixing if possible
- Antagonism is an issue, do not mix with propanil, Grandstand, Grasp, GraspXtra, Regiment
- Refer to label for approved mixture herbicides
- Initial injury observed, recovered within a week
- Minimize overlap
- Drift issue on young rice, 1-3 leaf, at 3 oz/A or 20%

Loyant

Loyant

- Dow AgroScience, Label early October
- Auxin activity New mode of action
- Little to no injury on rice, cut ground
- Controls grasses in seedling stage, aquatics and sedges
- Excellent activity on Indian jointvetch and hemp sesbania
- Very little activity on Texasweed
- No residual
- Drill- and water-seeded rice
- Caution: This is an auxin herbicide, avoid drift to soybean





Ducksalad Activity











How to use Loyant

- Apply at 1 pt/A
- Apply approved MSO at 0.5 pt/A
- Can apply 2 applications per year at 16 oz/A, 32 oz/A/yr
- 14 days between applications
- Do not apply within 60 days of harvest
- Avoid mixing with OP insecticides
- Do not mix with propanil
- Avoid use on leveled fields, except water-leveling
- If flooded prior to application, weeds 70% exposed, wait 3 hr before adding
- No residual, flood within 3 days after application

Gambit

Gambit

- Gowan, Label early October
- Pre-package mixture of halosulfuron 50% + prosulfuron 29%
- 1 to 2 oz/A, not to exceed 2 oz/A/yr
- Applied preemergence or postemergence pre- or post-flood
- Refer to label for approved adjuvants, NIS, COC, MSO
- Rainfast 4-hrs
- 48 day preharvest interval
- Apply to small actively growing weeds, 1-6"
- Controls sedges, alligatorweed, many other broadleaf weeds

RiceOne

RiceOne

- RiceCo, Label in early spring
- Pre-package mix of clomazone 11% + pendimethalin 26.79%
- Delayed preemergence to early postemergence
- Soil texture dependent, 24 to 50 oz/A
- 24 oz/A 8.5 oz/A Command and 1 pt/A Prowl H2O
- 35 oz/A 12.5 oz/A Command and 1.5 pt/A Prowl H2O
- 50 oz/A 17.8 oz/A Command and 2.1 pt/A Prowl H2O
- Prefer early postemergence in south Louisiana
- Excellent residual activity with 2 sites of action
- Keep agitated due to encapsulated formulation

Conclusions

- Herbicide development will continue
- Resistance issue will continue
- Continue to stress the use of multiple MOA
- Rotation solve many problems year after year
- Provisia Rice will be adopted, and aid growers
- Weed Science will continue to stay out front in rice
- Thanks to the rice growers the Rice Research Board

Questions