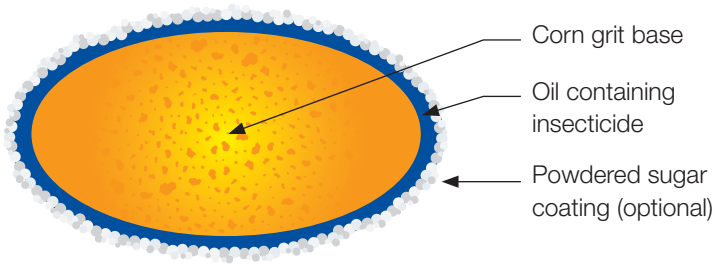
Altrevin®
Fire Ant Bait Insecticide

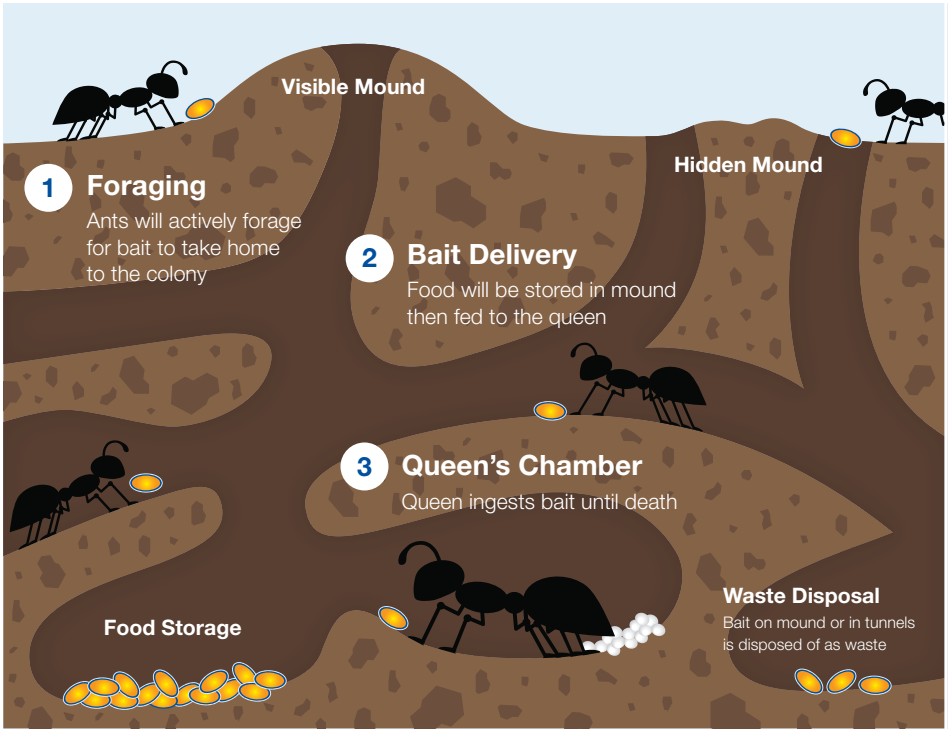
Best Management Practices for Altrevin® Fire Ant Bait Insecticide

Altrevin Fire Ant Bait Insecticide

- Active Ingredient: Metaflumizone (22B)
- PHI: 5 days
- REI: 12 hours
- Use Rate: 1.5 lbs/A
- Seasonal Max: 6 lbs/A
- Add Powdered Sugar (1:5) to increase attractiveness to sugar feeding species

Bait Schematic





Bait Considerations

- **Keep Bait Dry**
  - Moisture (precipitation, fog, irrigation, etc.) will rapidly degrade baits
- **Limit Food Sources**
  - Remove other sources of food (weed seed, honeydew, etc.) to increase foraging for bait
- **Remove Weeds and Residue**
  - Make it easier for ants to find bait during foraging
- **Residual Length**
  - Baits are only attractive for a few days after application
  - New colonies may establish quickly if pressure is heavy

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Technical Information Bulletin

Resistance Management

- **IRAC Technical Definition:**

  "A heritable change in the sensitivity of a pest population that is reflected in the repeated failure of a product to achieve the expected level of control when used according to the label recommendations of that pest species."[3]
- **Social Insects:** Ant colonies have limited individuals who pass along genes
- **Mode of Action:** Active ingredient in Altrevin® insecticide is only used as an ant bait in US Agriculture
- **Active Intake:** Queens consume Altrevin insecticide as available so rate response is variable

Primary Insecticide Resistance Mechanisms[3]

Ant bait insecticides are less prone to resistance than foliar products and other baits

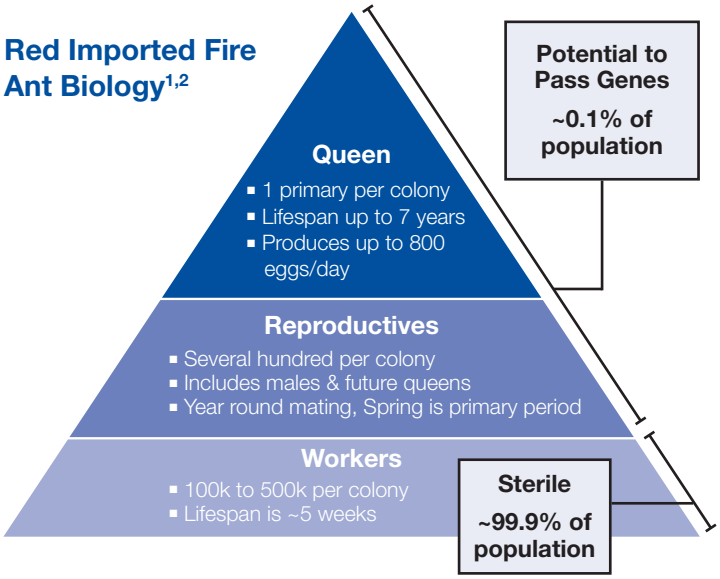
Metabolic 1
Nerve toxins act rapidly

Target Site 2
High intake rate by queen

Penetration 3
Ingested baits easily absorbed

Behavioral 4
Ants naturally forage

Red Imported Fire Ant Biology[1,2]



Single Queen Colony	Multiple Queen Colony
Territorial	Collaborative
40-150 mounds/A	200+ mounds/A
7 million ants/A	40 million ants/A

Altrevin insecticide works quickly to reduce populations that may harm the crop, even in the presence of a multi-queen colony.

Primary Ant Bait Characteristics

Product	Active	IRAC	Speed of Kill	PHI (almond)	Other Ag Uses
Neuromuscular Disruptor *Speed: Fast*					
Altrevin Fire Ant Bait Insecticide	Metaflumizone	22B	4 Hours	5 Day	None[4]
Clinch® Insecticide	Abamectin	6	1-2 Weeks	0 Day	Many
FireFighter™	Spinosad	5	3-14 Days	0 Day	Many
Insect Growth Regulator *Speed: Slow*					
Esteem®	Pyriproxyfen	7C	Weeks	24 Hour	Many
Extinguish®	Methoprene	7A	Weeks	0 Day	Limited

1 Greenberg, L., Kabashima, JN. (2013). University of California Statewide Integrated Pest Management Program (UC IPM): Red Imported Fire Ant. UC ANR Publication 7487. Accessed: Dec 2022. *ipm.ucanr.edu.*

2 Texas A&M AgriLife Extension. Texas Imported Fire Ant Research and Management Projects. Accessed: Dec 2022. *fireant.tamu.edu.*

3 Insecticide Resistance Action Committee (IRAC). Introduction to Resistance, Mechanisms. Accessed: Dec 2022. *IRAC-online.org.*

4 Only use of Metaflumizone in US Agriculture is as Altrevin Fire Ant Bait Insecticide.

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