

INSECTICIDE

Intrepid Edge[®] **Intrepid 2F[®]** **Delegate[®] WG**



Hull Split Strategies

Intrepid Edge[®] insecticide

INTREPID EDGE[®] INSECTICIDE combines two powerful active ingredients – methoxyfenozide and spinetoram – to form a long-lasting and fast-acting insecticide. The two active ingredients produce two modes of action and two modes of entry into pests (contact and ingestion). Intrepid Edge won't disrupt important beneficial insect populations.

Pests Controlled in Almonds and Pistachios

■ Navel orangeworm ■ Peach twig borer ■ Leafroller (labeled in other crops)

Intrepid Edge[®]

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Activity on Adults, Eggs, Larvae

Methoxyfenozide and spinetoram are the same active ingredients found in Intrepid 2F[®] and Delegate[®] insecticides, respectively. Combined, the two active ingredients will impact all life stages of navel orangeworm. The “multi-life stage” activity – documented by UC Extension and USDA-ARS – is valuable when multiple insect life stages are found in an orchard. Intrepid Edge will comprehensively reduce the entire pest population.

Furthermore, the adult activity is especially helpful when insecticides are applied late in the day or at night. At those times, adults are most active and more likely to come into contact with insecticides.

IPM Compatible

Intrepid Edge[®] can be used as part of a pest management program that takes advantage of beneficial insect populations. Applications of Intrepid Edge are significantly less impactful on beneficial insects compared to pyrethroids.

Drawbacks of Pyrethroids

Inexpensive and effective in the past, pyrethroids continue to lose effectiveness in many almond- and pistachio-growing areas. Data presented at Pistachio Day 2016 (Visalia – Jan 2016) and the Almond Conference (Sacramento – Dec 2016) provided evidence of NOW exhibiting significant “increased tolerance” to pyrethroids since 2009.

Overuse has likely contributed to the increased tolerance. In some nut-growing counties, nearly 80% of the yearly sprays for worms and bugs were pyrethroids. Additionally, data shows a direct correlation between pyrethroid use and miticide use.

With Intrepid Edge[®], however, growers get higher efficacy than pyrethroids (including adult kill) and longer residual than pyrethroids.



Delegate[®] WG insecticide

With two (or three) varieties within an almond orchard – all with different shaking dates – having an insecticide with a very short PHI can give growers a tremendous advantage for NOW management. In pistachios, a short PHI is helpful when insecticide applications are needed right before harvest or between shakes.




Intrepid Edge[®] and Intrepid 2F[®] insecticides – both with a 7-day PHI – remain the most effective navel orangeworm insecticides at hull split. However, if a shorter PHI is needed, Delegate is an excellent option. Delegate (IRAC Group 5) can also be a good rotational insecticide in orchards where diamides (IRAC 28), pyrethroids (IRAC 3) or Intrepid (IRAC 18) have already been used. Intrepid Edge – a pre-mix – is IRAC 18 + IRAC 5.

Delegate offers control of all stages of NOW – adults, eggs and larvae. A 2011 trial (Dr. Joel Siegel – USDA-ARS et al.) showed that Delegate controlled nearly 90% of adult NOW within 24 hours after application. A 2012 lab trial (Siegel et al.) showed that Delegate had a 91% mortality percentage on NOW eggs.

Delegate[®] WG

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Multi-Stage Activity

	 NOW Adult Activity	 NOW Egg Activity	 NOW Larvae Activity
Intrepid 2F[®]	—	✓	✓
Intrepid Edge[®]	✓	✓	✓
Delegate[®] WG	✓	✓	✓

NOW Treatment Strategies – Almonds

Insecticide Rotation Option	Mummy Spray ("May Spray")	Early Hull Split Spray (Nonpareil)	Mid Hull Split Spray (Nonpareil)	Pollenizer Variety Spray
Option 1	No IRAC Group 18 or 5	Intrepid 2F [®] or Intrepid Edge [®]	No IRAC Group 18 or 5	Intrepid 2F or Intrepid Edge
Option 2	Intrepid 2F (16 oz/A)	No IRAC Group 18 or 5	Intrepid 2F or Intrepid Edge	Intrepid 2F or Intrepid Edge
Option 3	Intrepid 2F (24 oz/A)	No IRAC Group 18 or 5	Intrepid 2F or Intrepid Edge	Intrepid 2F or Intrepid Edge or Delegate [®] WG

Notes

- Intrepid and Intrepid Edge offer extended residual at all spray timings
- Intrepid Edge offers activity on NOW adults
- Delegate has a 1-day PHI
- Full rates of Intrepid and Intrepid Edge recommended. Maximum 64 oz/A/season of Intrepid and 51 oz/A/season of Intrepid Edge.



Application Info – Hull Split			
	Intrepid Edge®	Intrepid 2F®	Delegate® WG
Active Ingredient	methoxyfenozide & spinetoram	methoxyfenozide	spinetoram
IRAC Group #	18 & 5	18	5
Key Pests	NOW, PTB	NOW, PTB	NOW, PTB
Rate	10-18 oz/A	12-24 oz/A	6-7 oz/A
Adjuvant/pH	High-quality spreader recommended. pH between 6 and 8 before adding Intrepid Edge	High-quality spreader recommended	pH between 6 and 8 before adding Delegate
REI	4 hours	4 hours	4 hours
PHI	7 days	7 days	1 day

Learn More

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Nighttime insecticide applications provide the best opportunity for the spray to contact navel orangeworm adults.





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