

2012 Spray Bulletin for Commercial Tree Fruit Growers

Changes to Orchard Weed Control Chapter

A new herbicide, indaziflam (Alion™), was added to the 2012 Spray Bulletin Guide. Most of the changes are related to this new active ingredient. Page numbers in this handout refer to 2011 Spray Bulletin.

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Active Ingredient	Chemical Family	Mode of Action
Indaziflam	Alkylazine	Cellulose biosynthesis inhibitor

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INDAZIFLAM (ALION) is formulated as a 1.67 lb per gal suspension concentrate (1.67 SC) and can be used in pome and stone fruits established for at least three years. This herbicide controls a range of annual grasses and broadleaf weeds. Applications carried out in late fall provide acceptable weed control till June of the following year and those carried out in spring provide weed control till mid to late summer. Since indaziflam does not control most emerged weeds, a postemergence nonselective herbicide should be added if weeds are present. Avoid spray contact with crop foliage, green bark, roots, or fruit to prevent localized injury. Do not apply to soils that have open channels, cracks, or depressions which may lead to herbicide contact with the roots. Excessive weed or crop debris at the time of application or dry soil conditions following application may lead to inconsistent weed control. Do not use in soils with 40% or more gravel content. The use rate is 5 oz formulation per acre for coarse and medium textured soils and 5-6.5 oz/A for fine textured soils. Do not apply more than a total of 10.3 oz/A per year.

Page 124

Pendimethalin – Deleted sentence 4 – “Check to see if supplemental label is still current for desired application timing on bearing trees” (relates to Prowl H2O; Prowl 3.3 EC is still labeled only on non-bearing trees)

Page 125

Glufosinate - Additional surfactant is not needed for Rely 280 (deleted Rely 200 in this sentence)

Pages 127-128

Weeds Controlled by Indaziflam (Alion)

Annual grasses

Barnyardgrass G
Cheatgrass G
Crabgrass G
Fall panicum G
Foxtails F-G
Goosegrass G
Johnsongrass –

Annual broadleaf weeds

Annual fleabane -
Annual morningglory P
Carpetweed G
Common chickweed G
Common lambsquarters G
Common ragweed G
Henbit G
Horseweed -
Mustards E
Pigweeds E
Prickly lettuce -
Purslane -
Shepherds purse -
Speedwells E
Velvetleaf E
Virginia Pepperweed –

Perennial grasses and sedges

Fescue –
Johnsongrass –
Nimblewill –
Orchardgrass –
Quackgrass –
Yellow nutsedge N
Purpletop –
Dallisgrass N
Bermudagrass N

Special problem weeds all -

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Trees established one full year

Postemergence annual and perennial weeds - Changed to – Rely 280 - 0.88-1.5 lb ai/A (48-82 fl oz/A)

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Trees established three full years

Most annual weeds indaziflam (Alion) 0.065 to 0.085 lb ai/A (5 to 6 oz/A)
(apples and pear)

Page 133

	Cherries	Nectarines	Peaches	Plums
Indaziflam ³	x	x	x	x

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The PHI for labeled fruits is 14 days and REI is 12 hours

Indaziflam	Alion	14	14	14	14	14	14	12
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P163 add Alion

P 164 add Indaziflam

P164 change Fluvuxypypr to Fluroxypyr

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