Appendix H

EIIS Incident Data

Table H-1 Incidents Reported in EIIS Involving Oxyfluorfen as of May 29, 2008										
Type	**Incident ID**	**Use Site**	**Start Date**	**Legality**	**Certainty**	**State**	**County**	**Total Magnitude**	**Appl. Rate**	**Appl. Method**
PLANTS	I013636-029	N/R	5/1/96	Registered use	Possible	OR	UNION	181 acres		
PLANTS	I013563-005	Almonds	11/20/00	Registered use	Possible	CA	Madera	332 acres	6 oz/acre	
PLANTS	I013563-001	Onions	4/21/98	Registered use	Possible	CA		Unknown	N/R	
PLANTS	I013563-006	Beans	1/24/01	Registered use	Possible	CA	San Joaquin	110 acres	1.0 pt/acre	
PLANTS	I016102-001	Tree farm/plantation		Registered use	Possible	MI			N/R	Spray
PLANTS	I013563-003	Onion	5/3/99	Misuse (accidental)	Possible	CA	Fresno	Unknown	1 pt/acre	Spray
PLANTS	I012366-049	N/R	9/26/01	Misuse (accidental)	Probable	CA		33 acres		
PLANTS	I003377-003	N/R	3/7/96	Misuse (accidental)	Probable	CA	MADERA	thousands		N/R
AQUATIC	I010844-001	Spill	8/22/00	Misuse (accidental)	Probable	OR	POLK	thousands		SPILL
PLANTS	I013563-002	Bean	11/25/97	Misuse (accidental)	Probable	CA	HURON	78 acres	1 pt/acre	N/R
PLANTS	I013563-009	Grape	6/16/00	Registered use	Probable	CA	Fresno	20 acres	6 oz/acre	N/R
PLANTS	I013563-004	Grapes	12/1/99	Registered use	Probable	CA	Sonoma	10 acres	N/R	Spray
PLANTS	I013563-007	Field	12/4/97	Misuse (accidental)	Probable	CA	Monterey	50 acres	N/R	Spray
PLANTS	I016962-027	Ryegrass	9/8/04	Misuse (accidental)	Probable	OR	Yamhill	38 acres	4 and 8 oz/a	Broadcast
PLANTS	I013563-008	Grapes	4/21/98	Registered use	Probable	CA	San Joaquin	Unknown	N/R	
PLANTS	I001734-001	HOME/TREE	5/1/89	REGISTERED USE	Unlikely	WA		ALL	4 PTS/ACRE	UNKNOWN

Appendix H-2 Details of Oxyfluorfen Plant Incidents in EIIS Database as of May 29, 2008	
Incident	**Description**
# I005625-016	An aerial drift incident occurred in March 1996 in Kern County, California. A grower stated that aerial drift of Roundup Ultra and Goal damaged 10 acres of oranges. Investigation by Monsanto representatives revealed that adequate buffer zones had not been employed. Either of these compounds may have contributed to the damage of these crops.
# I003377-003	An accidental misuse incident occurred on 7 March 1996 when a pest control operator in Madera County, California applied Roundup (glyphosate) and Goal (oxyfluorfen) to an unspecified site. These herbicides drifted to 40 acres of plums and 90-100 acres of almonds with total damage estimated at $500,000 to $760,000. Either of these compounds may have contributed to the damage of these crops.
# I005625-012	A registered use incident occurred in May 1996 in Desha County, Arkansas. A grower stated that aerial drift of Roundup Ultra and Goal damaged 160 acres of rice, and 80 acres had to be replanted. Either of these compounds may have contributed to the damage of these crops.
# I013636-029	On 1 May 1996, an incident occurred in Union County, Oregon involving 181 acres of peppermint. Oxyfluorfen was tank mixed with paraquat dichloride and other ingredients before application to the peppermint crop. Either of these compounds may have contributed to the damage of the crop.
# I013563-002	An incident occurred on 25 November 1997 in Huron County, California involving adverse effects to 78 acres of garbanzo beans two months following application of oxyfluorfen. An investigator determined that the probable cause of damage was excessive application rates of oxyfluorfen.
# I013563-007	An incident that occurred on 4 December 1997 in Monterey County, California resulted from spray drift of oxyfluorfen from an unplanted field to 50 acres of nearby lettuce fields. The symptom reported was necrotic spotting. An agricultural consultant reviewing the incident determined that the damage may have been caused by improper application of oxyfluorfen.
# I013563-008	An incident involving an unknown number of acres of grape crop occurred on 21 April 1998 in San Joaquin County, California. According to the grower, oxyfluorfen was applied nineteen days after bud swell. A subsequent rain and hail event caused damage that included burnt grape leaves and shoots. It is probable that oxyfluorfen contributed to the damage.
# I013563-003	An accidental misuse incident occurred on 3 May 1999 in Fresno County, California, one month after oxyfluorfen application to onion crop. The symptoms reported include stunting, leaf necrosis, internal discoloration, and plant deaths. An agricultural consultant determined that it was possible that improper use of oxyfluorfen resulted in the damage to the onion crop; Buctril was used as a tank mix partner.
# I013563-004	An incident occurred on 1 December 1999 in Sonoma County, California involving ten acres of grape vines. Four months after the application of oxyfluorfen to 90 acres of grape vines, ten acres of plants showed symptoms that included curling, necrosis, and speckling of leaves. This damage appeared after the ten acres of vines had been pruned, but it is not known whether or not the pruning contributed to the incident. It is probable that oxyfluorfen caused this incident.
# I016102-001	An incident that occurred in May-June 2000 in Michigan resulted in adverse effects to 20 acres of blueberries. Two growers reported that application of oxyfluorfen and prodiamine to adjacent tree nurseries with subsequent wind erosion events had been damaging blueberry crop for years. Effects included yield declines, fruit not developing, small leaves with brown necrotic margins, leaf spots, defoliation, foliar reflush, and brown curled underdeveloped leaves. Either of these compounds may have contributed to the damage of these crops.

Appendix H-2 Details of Oxyfluorfen Plant Incidents in EIIS Database as of May 29, 2008	
Incident	**Description**
# I013563-009	On 16 June 2000, an incident occurred involving 20 acres muscat grapes in Fresno County, California. The symptoms included burnt leaves and berries and appeared 24 hours after application of oxyfluorfen, sulfur, and fenarimol. While it is unlikely that sulfur or fenarimol caused the damage, it is probable that oxyfluorfen contributed to the damage to the crop.
# I013563-005	An incident occurred on 20 November 2000 in Madera County, California that resulted in lack of bloom on lower portions of plants two to three months after application of oxyfluorfen and glyphosate to 332 acres of almond crop. Either of these ingredients may have contributed to the damage of this crop.
# I013563-006	On 24 January 2001, an incident occurred involving 110 acres of garbanzo beans in San Joaquin County, California. The symptoms were not reported but were noticed three to four months after application of oxyfluorfen (1.0 pt/acre of Goal) and metribuzin (0.5 lb/acre of Sencor).
# I012366-049	An accidental misuse incident occurred on 26 September 2001 in California. The grower stated that after the application of Goal (oxyfluorfen) and Buctril (bromoxynil octanoate and atrazine), 33 acres of onion were affected with total damage estimated at $124,000. The oxyfluorfen label instructions stated that it should not be applied in conjunction with other herbicides or fungicides.
# I016962-027	An incident involving 38 acres of ryegrass occurred between 8 September 2004 and 19 October 2004 in Yamhill County, Oregon. Following two applications of oxyfluorfen and a third application of oxyfluorfen, metribuzin, and flufenacet, damage to the ryegrass was observed. Although metribuzin and flufenacet possibly contributed to the damage, it is more probable that oxyfluorfen contributed to the damage because three applications were used instead of only two as the label indicates. In addition, other factors may have contributed to the damage including a frost in December.
# I013563-001	An incident involving oxyfluorfen application to onion crop in California resulted in yellowing of the crop. No other information was reported. It is possible that oxyfluorfen contributed to this incident.
# I001734-001	An incident involved repeated applications of Goal to eight acres of fir trees in Washington. Trees exhibited one or more of the following symptoms: death, loss of turgidity, some woody tissue above base of tree was enlarged with necrosis and darkening of internal tissue, and stem brittleness and fissures.