PESTICIDE DRIFT

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Drift Mitigation

- What is drift?
- Laws and regulations, policy
- Application methods
- Drift cases
- Mitigation

Drift Mitigation

ENF 2000-034, Pesticide Drift Incident Policy

Drift - the pesticide that moves through the air and is not deposited on the target area at the time of the application.

Drift Mitigation - Law

CFAC section 12972:

The use of any pesticide by any person shall be in such a manner as to prevent substantial drift to non-target areas.

Drift Mitigation

3CCR 6000 – Definition

Substantial drift – the quantity of pesticide outside the target area is greater than which would have resulted had the applicator used due care.

Drift Mitigation

ENF 2000-034, Pesticide Drift Incident Policy

Due care – the degree of care that a prudent and competent person engaged in the same line of business or endeavor would exercise under the same or similar circumstances. When the person does not exercise due care, the person is said to be negligent.

Drift Mitigation

Due Care?

Drift Mitigation – Incidents

Drift Mitigation -Law

CFAC section 12973:

The use of any pesticide shall not conflict with labeling registered pursuant to this chapter which is delivered with the pesticide or with any additional limitations applicable to the conditions of any permit issued by the director or commissioner.

Label Statements

VegetationManager®

ECOMAZAPYR 2 SL

SPECIMEN LABEL

Ecomazapyr 2 SL may ONLY be used for application to control undesirable emergent and floating aquatic vegetation in and around standing and flowing water, including estuarine and marine sites. **Ecomazapyr 2 SL** may also be used to control undesirable vegetation growing in or around surface water in wetland, riparian and terrestrial habitats where applications may inadvertently contact surface water. **Ecomazapyr 2 SL** may also be used for cut stump, cut stem and frill and girdle treatments within aquatic sites.

ACTIVE INGREDIENT:

Isopropylamine salt of imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid)*	27.8%
INERT INGREDIENTS	72.2%
TOTAL	100.0%

*Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid equivalent per gallon.

EPA Reg. No. 74477-6

KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCION

PRECAUCION AL USUARIO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If swallowed	• Call a poison control center or doctor for further treatment advice. • Have person sip a glass of water if able to swallow. • **DO NOT** induce vomiting unless told to by a poison control center or doctor. • **DO NOT** give anything to an unconscious person.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call 1-800-308-5391.	

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions are given for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

DO NOT apply to water except as specified in this label. Treatment of aquatic weeds may result in oxygen depletion or loss due to decomposition of dead plants. This oxygen loss may cause the suffocation of some aquatic organisms. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift precautions on the label.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Ecomazapyr 2 SL** should be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

DO NOT mix, store or apply **Ecomazapyr 2 SL** or spray solutions of **Ecomazapyr 2 SL** in unlined steel (except stainless steel) containers or spray tanks.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Keep containers closed to avoid spills and contamination.

GENERAL INFORMATION

Ecomazapyr 2 SL is an aqueous solution intended to be mixed with water and surfactant(s) for application to control floating and emergent undesirable vegetation (see **AQUATIC WEEDS CONTROLLED BY ECOMAZAPYR 2 SL** section and the **ADDITONAL WEEDS CONTROLLED BY ECOMAZAPYR 2 SL** section) in or near bodies of water which may be flowing, non-flowing or transient. **Ecomazapyr 2 SL** may be applied to aquatic sites that include lakes, rivers, streams, ponds, seeps, drainage ditches, canals, reservoirs, swamps, bogs, marshes, estuaries, bays, brackish water, transitional areas between terrestrial and aquatic sites and seasonal wet areas. See **AQUATIC USES, PRECAUTIONS AND RESTRICTIONS** section of this label for precautions, restrictions, and instructions on aquatic uses. **Ecomazapyr 2 SL** may also be used for cut stump, cut stem and frill and girdle treatments within aquatic sites (see **AERIAL APPLICATIONS AND GROUND APPLICATIONS** sections for additional details).

Read and observe the following directions if aquatic sites are present in terrestrial non-crop areas and are part of the intended treatment area.

Ecomazapyr 2 SL controls most annual and perennial grasses, broadleaf weeds and many brush and vine species. **Ecomazapyr 2 SL** will provide some residual control of undesirable species that germinate above the waterline. **Ecomazapyr 2 SL** controls vegetation by absorption through emergent leaves and stems, from which it is translocated throughout the plant, where it accumulates in rapidly-growing meristematic tissue. Treated plants stop growing soon after treatment. Chlorosis (yellowing of plant tissue) first appears in the newest leaves, and necrosis spreads from this point. In perennials, **Ecomazapyr 2 SL** is translocated into and kills underground or submerged storage organs to prevent regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until two or more weeks after application. Complete kill of plants may not occur for several weeks. Applications of **Ecomazapyr 2 SL** are rainfast within one hour after treatment.

Ecomazapyr 2 SL will not control plants which are completely submerged or have a majority of their foliage under water.

Ecomazapyr 2 SL must be applied to the emergent foliage of the target vegetation, since it has little-to-no activity on submerged vegetation. Residual concentrations of **Ecomazapyr 2 SL** from direct application to water are not expected to be sufficient to provide control of undesirable vegetation. Apply **Ecomazapyr 2 SL** so as to maximize spray contact onto the target vegetation while minimizing overspray onto adjacent or underlying water. For optimum performance, include a surfactant (see **ADJUVANTS** section for specific recommendations) in the spray solution and apply to actively growing weeds. **Ecomazapyr 2 SL** may be applied in spot treatments by using low-volume directed application techniques or broadcast by using ground equipment, water craft or helicopter.

Apply Ecomazapyr 2 SL with surface or helicopter application equipment in at least 5 gallons of water per acre. When applying by helicopter, follow directions under the **AERIAL APPLICATIONS** section of this label, otherwise refer to section on **GROUND APPLICATIONS** when using surface equipment.

Applications to moving bodies of water should be made while traveling upstream to prevent concentration of this herbicide in water. **DO NOT** apply to bodies of water or portions of bodies of water where emergent and/or floating weeds do not exist.

When target vegetation covers a large percentage of the surface area of impounded water, apply **Ecomazapyr 2 SL** to alternating strips (i.e., **DO NOT** apply to every other swath) to avoid oxygen depletion due to decaying vegetation, since oxygen depletion may result in the

SPRAY DRIFT MANAGEMENT

Spray Drift: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the entity authorizing spraying are responsible for considering all these factors when making decisions.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or non-target crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, and temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces the drift potential, but will not prevent drift if applications are made improperly, or

Label Statements

Specimen Label

Dow AgroSciences

Goal® 2XL

HERBICIDE

®Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Active Ingredient	
oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy) 4-(trifluoromethyl)benzene	22.3%
Other Ingredients	77.7%
Total	100.0%

Contains 2 pounds active ingredient per gallon.
Contains petroleum distillates

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-424

WARNING

Causes Skin Irritation • Causes Moderate Eye Irritation • Harmful If Swallowed Or Absorbed Through The Skin

Do not get on skin or on clothing. Avoid contact with eyes.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Mixers, loaders and applicators using engineering controls (see Engineering Controls requirements below) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (such as Barrier Laminate, Viton) when mixing and loading
- Chemical-resistant apron when mixing and loading

All other mixers, loaders, applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves (such as Barrier Laminate, Viton)
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when exposed to the product concentrate

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls: Mixers and loaders supporting ground applications to cotton must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], and must:

- Wear the personal protective equipment required above for mixers/loaders using engineering controls
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in case of emergency, such as a broken package, spill, or equipment breakdown, coveralls and chemical-resistant footwear.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6);

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Contains petroleum distillates
Hot Line Number: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. See Directions for Use for additional restrictions. Do not contaminate water when disposing of equipment wash water.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE)and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours, except for the following:

- Onions, garlic and horseradish: The REI is 48 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Non-Agricultural Use Requirements:

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.
Do not enter or allow others to enter until sprays have dried.

Storage and Disposal:

Do not contaminated water, food or feed by storage or disposal
Pesticide Storage: Keep from Freezing. Store above 32°F
Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Nonrefillable containers 5 gallons or less:
Container Handling: Nonrefillable container. Do not reuse or refill this container. After rinsing, offer for recycling if available available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.
Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank to collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers larger than 5 gallons:
Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable containers larger than 5 gallons:
Container Handling: Nonrefillable container. Do not reuse or refill this container. After rinsing, offer for recycling if available available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.
Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank to collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

PRODUCT INFORMATION

Goal® 2XL herbicide is a herbicide for postemergence and preemergence residual weed control in labeled crops. Directions provided in the General Use Information section of this label apply to all uses of this product. Use directions for listed crops are provided in the Crop-Specific Use Directions section of this label.

Use Restrictions

The following use restrictions apply to all labeled uses of Goal 2XL (Refer to directions for use for individual crops for additional crop-specific use restrictions.):

- Do not graze or harvest plants from areas treated with Goal 2XL for feed or forage.
- Apply Goal 2XL only with ground equipment unless otherwise specified in crop-specific use directions.
- Goal 2XL is phytotoxic to plant foliage. Avoid accidental spray contact or drift with established crops. Do not apply when weather conditions favor drift to non-target areas.
- Some labeled crops are tolerant to over-the-top applications of Goal 2XL if applied during dormancy. Do not make over-the-top applications unless specifically allowed in crop-specific use directions.
- Do not treat ditch banks or waterways with Goal 2XL or contaminate water used for irrigation or domestic purposes.
- Do not apply Goal 2XL in enclosed greenhouses as foliage injury will result.

Spray Drift Buffer Restrictions

- A 25 foot vegetative buffer strip must be maintained between all areas treated with this product and lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not allow spray to drift from the application site and contact people, structures people may occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.
- For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy when wind speed is 10 mph or less at the application site as measured by an anemometer.
- Use coarse spray according to ASAE 572 definition for standard nozzles or VMD of 475 microns for spinning atomizer nozzles.
- The applicator also must use all other measures necessary to control drift.

Rotation Crop Restrictions

- Do not rotate to small-grain crops (includes barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice) within 10 months following an application of Goal 2XL.
- Do not direct seed any crop, other than a crop labeled for use with Goal 2XL, within 60 days following application.
- Do not transplant seedlings of crops, other than crops labeled for use with Goal 2XL, within 30 days following application.
- **IMPORTANT: Unless otherwise specified elsewhere in this label or Dow AgroSciences supplemental label or product bulletin, treated soil must be thoroughly mixed to a depth of 4 inches after harvest (or abandoning) of the treated crop but prior to planting of the rotational crop. Failure to achieve thorough and complete mixing or to follow the required minimum plant-back interval may result in crop injury, stand reduction and/or vigor reduction of the plant-back crop.** See specific fallow bed labeling instructions for required treatment-to-planting intervals following application of Goal 2XL to fallow beds or fallow fields.

Weeds Controlled

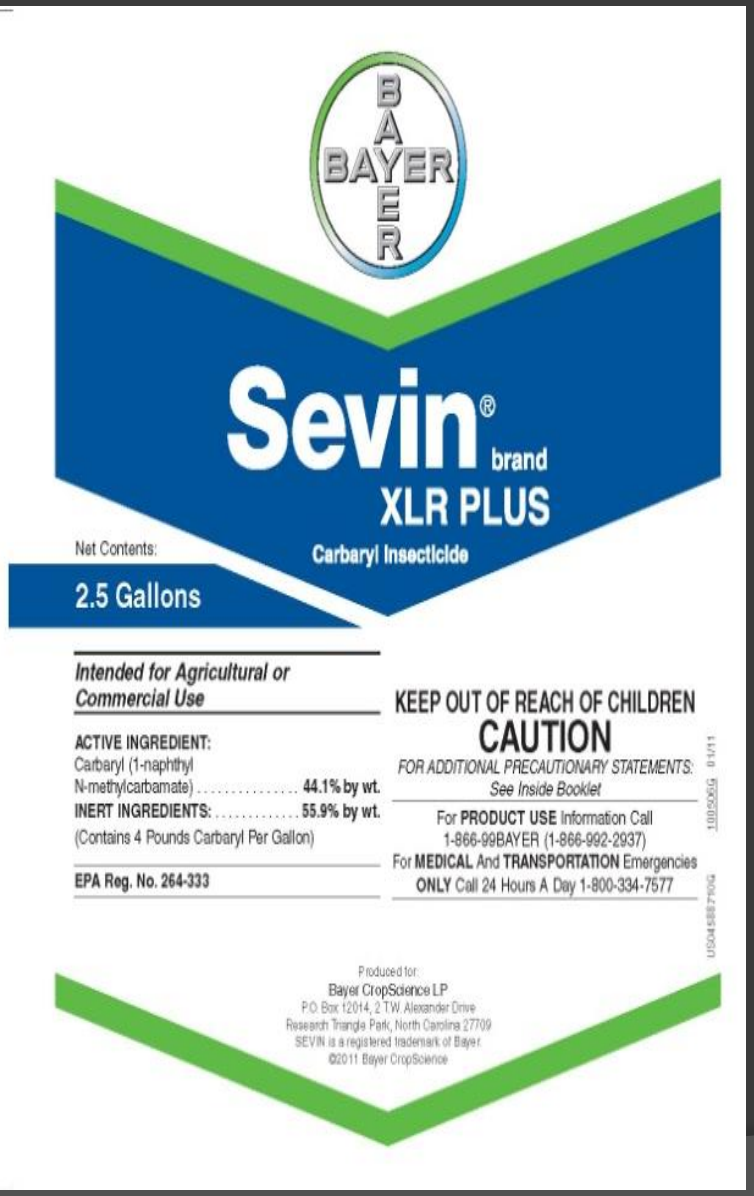
Common Name	*Scientific Name*
ageratum	*Ageratum conyzoides*
amaranth, spiny	*Amaranthus spinosus*
balsamapple	*Momordica charantia*
barnyardgrass (watergrass) †	*Echinochloa crus-galli*
bedstraw, catchweed	*Galium aparine*
bittercress, lesser	*Cardamine oligosperma*
bluegrass, annual †	*Poa annua*
buckwheat, wild	*Polygonum convolvulus*
burclover	*Medicago hispida*
buttercup, smallflower	*Ranunculus aborvitus*
buttonweed	*Borreria laevis*
camphorweed	*Heterotheca subaxiliaris*
canarygrass (annual)	*Phalaris canariensis*
carpetweed	*Mollugo verticillata*
cheeseweed (malva)	*Malva parviflora*
clover, red †	*Trifolium pratense*
clover, white †	*Trifolium repens*
cocklebur, common	*Xanthium pensylvanicum*
crabgrass, large (hairy) †	*Digitaria sanguinalis*
crotalaria	*Crotalaria species*
croton, tropic	*Croton glandulosus*
cudweed, narrowleaf	*Gnaphalium falcatum*
eveningprimrose, cutleaf	*Oenothera laciniata*
fiddleneck, coast †	*Amsinckia intermedia*
filaree, broadleaf	*Erodium botrys*
filaree, redstem	*Erodium cicutarium*
filaree, whitestem	*Erodium moschatum*
fireweed (from seed)	*Epilobium angustifolium*

Label Statements – Goal 2XL

Spray Drift Buffer Restrictions

- A 25 foot vegetative buffer strip must be maintained between all areas treated with this product and lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not allow spray to drift from the application site and contact people, structures people may occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.
- For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy when wind speed is 10 mph or less at the application site as measured by an anemometer.
- Use coarse spray according to ASAE 572 definition for standard nozzles or VMD of 475 microns for spinning atomizer nozzles.
- The applicator also must use all other measures necessary to control drift.

Drift Mitigation – Sevin XLR PLUS



ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Discharge from rice fields may kill aquatic and estuarine invertebrates. Do not apply when weather conditions favor drift from area treated. Drift and run-off may kill aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

BEE CAUTION: This product is highly toxic to honeybees and other bees exposed to direct treatment or residues on crops or weeds in bloom. This product may show residual toxicity to honeybees, especially in humid climates and under slow drying conditions.

Notifying beekeepers within 1 mile of treatment area at lest 48 hours before product is applied will allow them to take additional steps to protect their bees. Limiting application to times when bees are least active, e.g., within 2 hours of sunrise or sunset, will minimize risk to bees.

For crops in bloom (except soybean and corn): Do not apply this product to target crops or weeds in bloom.

For soybean and corn: If application cannot be avoided when target crop or weeds are in bloom, limiting applications to times when bees are least active, e.g. within 2 hours of sunrise or sunset, will minimize risk to bees.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read the entire label before using this product.

Strictly observe label directions and cautions. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Drift Mitigation – Label

Sevin XLR PLUS

Drift Mitigation Regulations

3CCR sec. 6600. Gen. Standards of Care.

Each person performing pest control shall:

(a) Use equipment which is in good repair and safe to operate

(b) Perform pest control in a careful and effective manner

(c) Methods and equipment suitable to insure proper application of pesticides

(d) Under climatic conditions suitable insure proper application

(e) Precautions to avoid contamination of the environment

Drift Mitigation – 3CCR 6600

Equipment in Good Repair

Drift Mitigation -3CCR 6600

Careful and Effective, Climatic Conditions

Drift Mitigation – 3CCR 6600

Methods and Equipment Suitable…

Drift Mitigation Regulations

3CCR sec. 6614. Protection of Persons, Animals, and Property.

(a) An applicator prior to and while applying a pesticide shall evaluate all the equipment to be used, meteorological conditions, the property to be treated, and surrounding properties to determine to likelihood of harm or damage

Drift Mitigation Regulations

3CCR sec. 6614 continued….

(b) Notwithstanding substantial would be prevented, no pesticide application shall be made or continued when:

(1) There is a reasonable possibility of contamination of the bodies or clothing of persons not involved in the application process;

(2) There is a reasonable possibility of damage to non-target crops, animals, or other public or private property; or

(3) There is reasonable possibility of contamination of non-target public or private property, including the creation of a health hazard, preventing normal use of such property…

Drift Mitigation – Regulations

Possibility of Contamination

Drift Mitigation – 3CCR 6614

Possibility of Damage

Drift Mitigation – 3CCR 6614

Possibility of Damage

Application Methods

Application Methods

Application Methods

Application Methods

Application Methods

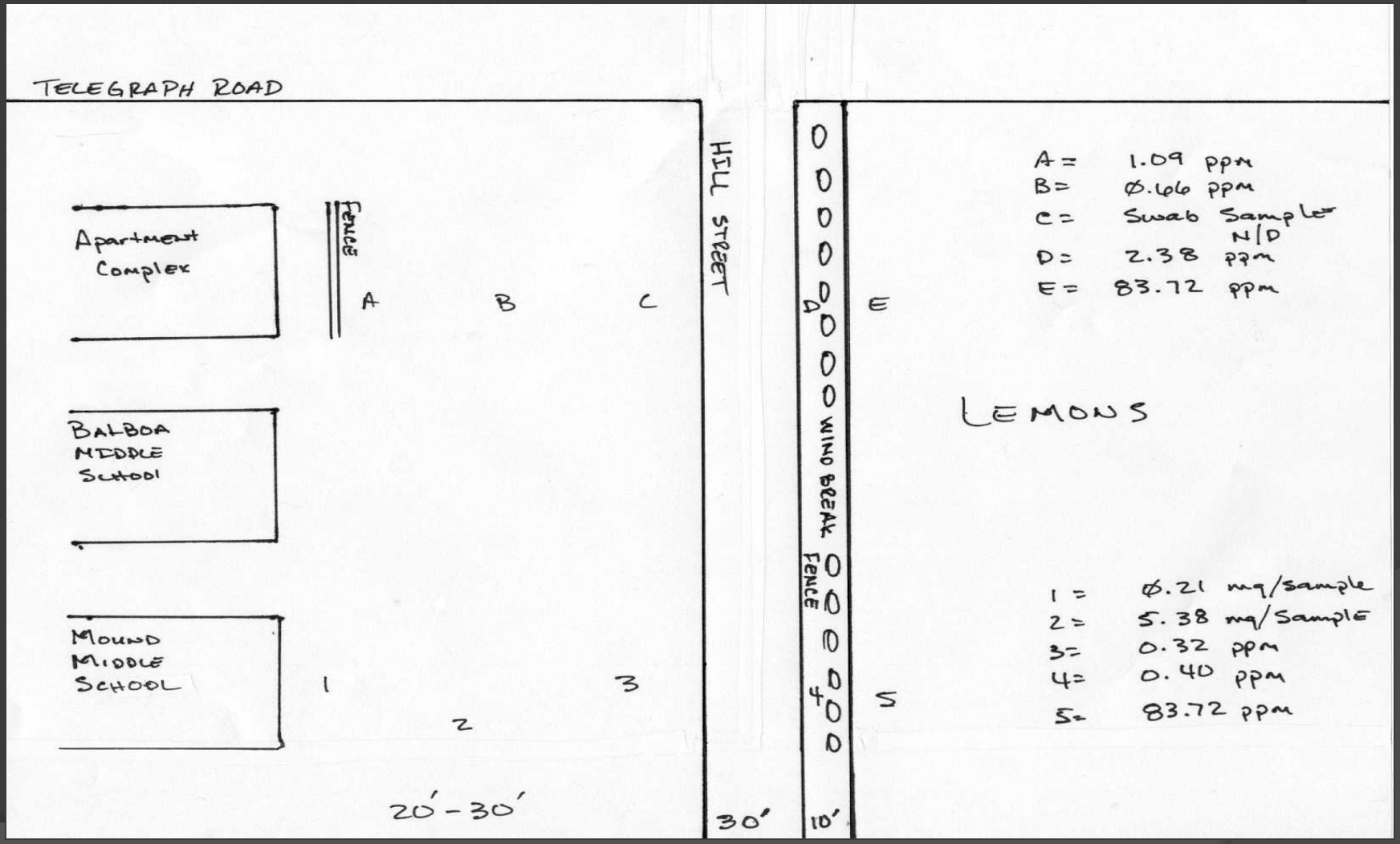
Drift Cases (Incidents)

Incidents

Incidents

Constitution Blvd & E Boronda Rd,
Declaration
Constitution Blvd
Boston St
Massachusetts Dr
Freedom Pky
Cottonwood Dr
E Boronda Rd
Aldrich Pl
Ridge Ave
Sequoia Dr
Cactus Ct
Durango St
Yucatan Way
Mazatlan St
Marquito Dr
Image © 2007 DigitalGlobe
© 2007 Navteq
Google
Pointer 36°42'02.74" N 121°36'11.88" W
Streaming 100%
Eye alt 4001 ft

Incident


TELEGRAPH ROAD
Apartment Complex
BALBOA MIDDLE SCHOOL
MOUND MIDDLE SCHOOL
FENCE
A
B
C
1
2
3
20'-30'
HILL STREET
30'
WIND BREAK FENCE
D
E
10'
A = 1.09 ppm
B = Ø.66 ppm
C = Swab Sample N/D
D = 2.38 ppm
E = 83.72 ppm
LEMONS
1 = Ø.21 mg/sample
2 = 5.38 mg/Sample
3 = 0.32 ppm
4 = 0.40 ppm
5 = 83.72 ppm

Diazinon drift onto a pruning crew

Drift Site

1= 0.11ppm

2=0.14ppm

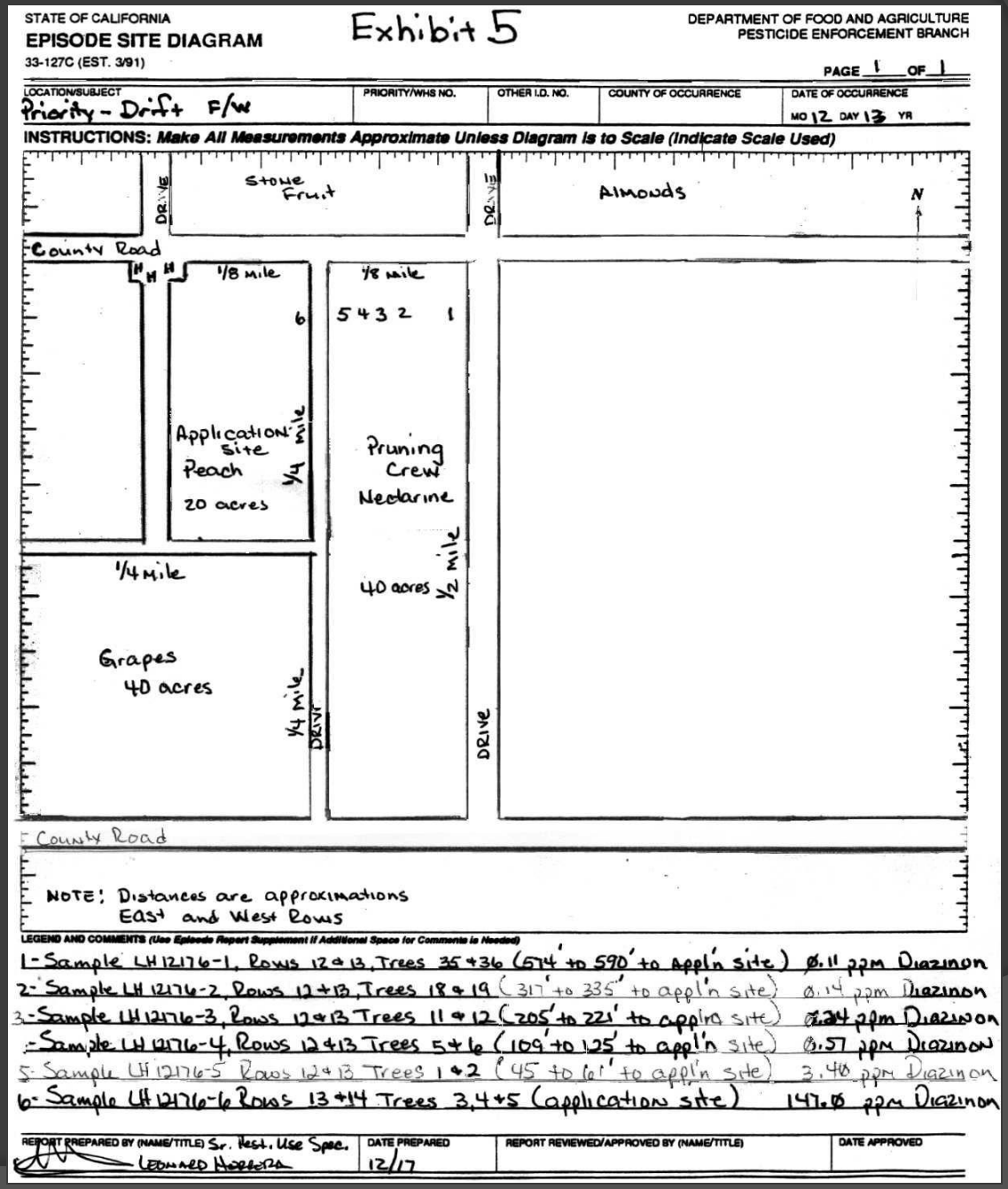
3=0.24ppm

4=0.57ppm

5=3.40ppm

Appl'n Site

147.0ppm



STATE OF CALIFORNIA
EPISODE SITE DIAGRAM
33-127C (EST. 3/91)

Exhibit 5

DEPARTMENT OF FOOD AND AGRICULTURE
PESTICIDE ENFORCEMENT BRANCH

PAGE 1 OF 1

LOCATION/SUBJECT	PRIORITY/WHS NO.	OTHER I.D. NO.	COUNTY OF OCCURRENCE	DATE OF OCCURRENCE
Priority - Drift F/W				MO 12 DAY 13 YR

INSTRUCTIONS: *Make All Measurements Approximate Unless Diagram is to Scale (Indicate Scale Used)*

NOTE: Distances are approximations
East and West Rows

LEGEND AND COMMENTS (*Use Episode Report Supplement if Additional Space for Comments is Needed*)

1- Sample LH12176-1, Rows 12 & 13, Trees 35 + 36 (574' to 590' to Appl'n site) 0.11 ppm Diazinon
2- Sample LH12176-2, Rows 12 + 13, Trees 18 & 19 (317' to 335' to appl'n site) 0.14 ppm Diazinon
3- Sample LH12176-3, Rows 12 & 13 Trees 11 & 12 (205' to 221' to appl'n site) 0.24 ppm Diazinon
4- Sample LH12176-4, Rows 12 & 13 Trees 5 + 6 (109' to 125' to appl'n site) 0.57 ppm Diazinon
5- Sample LH12176-5 Rows 12 & 13 Trees 1 & 2 (45' to 61' to appl'n site) 3.40 ppm Diazinon
6- Sample LH12176-6 Rows 13 + 14 Trees 3, 4 + 5 (application site) 147.0 ppm Diazinon

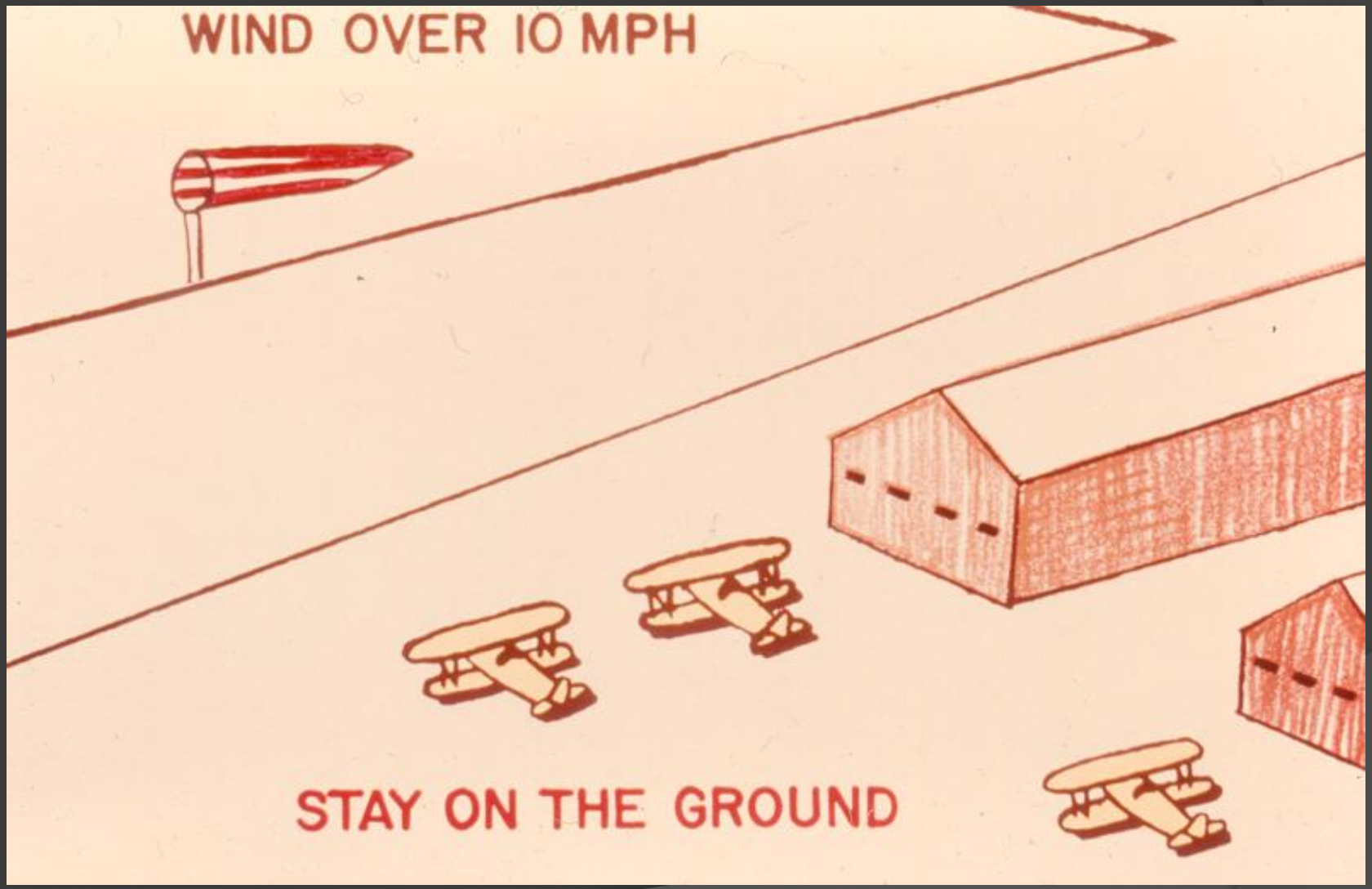
REPORT PREPARED BY (NAME/TITLE)	DATE PREPARED	REPORT REVIEWED/APPROVED BY (NAME/TITLE)	DATE APPROVED
Sr. Pest. Use Spec. LEONARD HOBBS	12/17		

Incidents

- “Construction Workers Doused With Pesticide From Helicopter…”
- “Major Pesticide Drift Threatens Lodi-Area Vineyards”
- “Bouldin Island pesticides drift under investigation”
- “Santa Cruz organic farmer awarded $1 million for pesticide drift”

Mitigation

Environmental Conditions

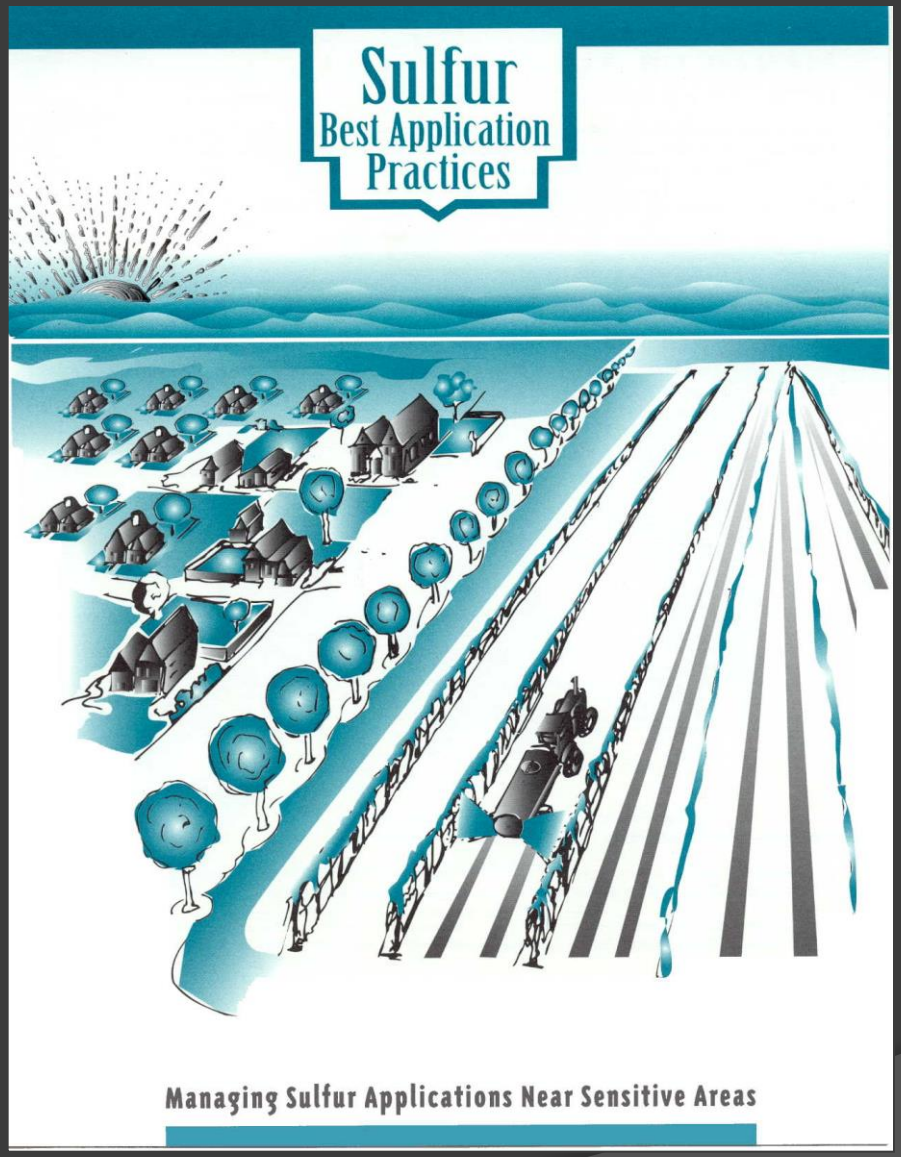


Aerial Equipment
Fixed-Winged Aircraft

Environmental Conditions

Equipment and Timing

Inversions


Sulfur
Best Application
Practices
Managing Sulfur Applications Near Sensitive Areas

Is this a good practice?

Review

- What is drift?
- Laws (label), regulation, and policy
- Drift cases
- Methods of application
- Ways to mitigate drift

Questions or Comments?