SOLANO COUNTY PERMIT CONDITION "A"

LIST OF RESTRICTED USE PESTICIDES

A. <u>Any pesticides labeled as restricted use pesticides by the EPA</u> (United States Environmental Protection Agency) may <u>only</u> be applied by a Certified Commercial Applicator or Certified Private Applicator. This includes applications carried out by growers.

Examples include:

Abamectin (Avid)
Alachlor (Lasso)
Amino Triazole
Atrazine

Diazinon

Diflubenzuron (Dimilin)

Dyclofop methyl (Hoelon)

Beta-cvfluthrin (Baythroid)

Cyanazine (Bladex)

Diazinon

Asana, Cymbush, Danitol,

Mavrik, Pounce, etc.)

Phosalone (Zolone)

Pronamide (Kerb)

Bifenthrin (Capture) Milban

Chlorpyrifos (Lorsban) Oxamyl (Vydate)

B. <u>Certain carbamate compounds</u>

Aldicarb (Temik)
 Carbofuran (Furadan)
 Carbaryl (Sevin) (except bait formulations)
 Methomyl (Lannate)

C. Certain fumigants

1. Aluminum Phosphide (Phostoxin) 8. Methyl Bromide

2. Calcium Cyanide 9. Methyl Isothiocyanate (MITC)

3. Chloropicrin 10. Phosphine Gas

4. Dazomet 11. Sodium tetrathiocarbonate (Enzone)

5. Magnesium Phosphide (Magtoxin) 12. Sulfuryl Floride

6. Metam-Potassium*(K-Pam) 13. 1,3 dichloropropene (Telone II)

7. Metam-Sodium (Vapam)*

* Users of Metam-Sodium (Vapam)/Metam-Potassium (K-Pam) must be in possession of and in compliance with the Technical Information Bulletin "Guidelines for All Application Methods for Metam-Sodium in California". This bulletin is available from your pesticide dealer or County Agricultural Commissioner.

D. Certain avicides

1. 4-Amino Pyridine (Avitrol) 2. Starlicide

E. Certain rodenticides

1. Sodium cyanide 3. Zinc Phosphide

2. Strychnine

F. <u>Certain organophosphate pesticides</u>

1. Azinphos methyl (Guthion)5. Methamidophos (Monitor)9. Oxydemeton methyl2. Disulfoton (Di-Syston)6. Methidathion (Supracide)(Metasystox R)3. Ethoprop (Mocap)7. Methyl Parathion10. Phorate (Thimet)

4. Fenamiphos (Nemacur) 8. Mevinphos (Phosdrin) 11. Sulfotepp

G. Certain chlorinated organic pesticides

1. Endosulfan (Thiodan) 2. Lindane

Permit Condition "A" (cont.)

H. Certain herbicides

1. 2,4-D 4. Dicamba (Banvel, Clarity) 7. Paraquat (Gramoxone) 2. 2,4 -DB 5. MCPA 8. Propanil

3. 2,4-DP 6. Molinate (Ordram) 9. Thiobencarb (Bolero)

I. <u>Certain potential groundwater pollutants</u>, when used in a Ground Water Protection Area or inside canals or ditches below the high water line.

Examples include:

Atrazine (Aatrex)
 Bentazon (Basagran)
 Bromacil (Hyvar, Krovar)
 Norflurazon (Solicam)
 Prometon (Pramitol)
 Simazine (Princep)

4. Diuron (Direx, Karmex)

J. Certain other pesticides

1. Acrolein (Magnacide) 3. Tribufos (DEF, Folex)

2. Compound 1080 4. Tributyltin (when labeled as anti-foulant)

- K. <u>Any pesticide formulated as a *dust* if packaged in containers larger than 25 pounds</u> (sulfur and certain copper compounds are exempt)
- L. <u>Any pesticides used under any emergency exemption</u> pursuant to Section 18 of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "B"

CONDITIONS COVERING AERIAL AND GROUND APPLICATIONS OF PARAQUAT (GRAMOXONE)

Aerial Applications

- A. Jet nozzle orifices shall not be less than 6/64 inches in diameter (D6) and shall be directed backward parallel to the airstream. Nozzles shall not be equipped with any device or mechanism which would cause a sheet, cone, fan, or similar type dispersion of the discharged material. Whirlplates are not to be used during the aerial application of Gramoxone.
- B. No oil based spreaders or oil based additives are to be used.
- **C. Buffer distances** will be determined by wind direction. If air movement is towards a sensitive area* at the time of the application, a buffer of at least <u>2 miles</u> shall be maintained. If air movement is away from a sensitive area, the following buffers shall be maintained:

From incorporated cities or populated areas:

- ➤ One mile for application by fixed wing aircraft
- ➤ 1/2 mile_for application by helicopter

From sensitive crops**, truck farms, and certified organic crops:

➤ 1/2 mile for applications by helicopter or fixed wing aircraft

During the application, the prevailing wind direction shall be 90° to 180° away from any sensitive areas within 2 miles.

- * <u>sensitive areas</u> are those areas where damage is not acceptable whether due to health, economic, or aesthetic concerns.
- ** <u>sensitive crops</u> are those crops where damage is not acceptable. The owner of the crop shall make the decision as to whether damage is acceptable. In <u>no</u> case shall this be interpreted to mean that a commodity may be harvested when it has a residue of paraquat in excess of tolerance.
- **D. Weather conditions.** No applications may be made during inversion conditions or when wind speed is less than 2 mph, greater than 7 mph, or gusting.
- E. Total acreage treated per day may be limited by the Agricultural Commissioner.

 Notices of Intent must be submitted during normal office hours (8:30 AM to 5:00 PM on weekdays), and the 24 hour requirement will not be waived.
- **F.** No less than 10 gallons of water per acre may be used as diluent.

Permit Condition "B" (cont.)

- **G.** Spray material shall not be discharged at a height of more than <u>10 feet</u> above the crop or target.
- **H.** Boom length shall not exceed 3/4 of the length of the wing on fixed wing aircraft or 6/7 of the length of the rotor on helicopters. Boom pressure shall not exceed 40 psi.
- **I.** The flow of liquid to nozzles shall be controlled by a positive shut-off system.

Ground Applications

- **A.** Applications may be made no closer than 100 feet from a sensitive area.
- **B.** No low volume or small droplet applications may be made within one mile of sensitive areas, including sensitive crops, truck farms, organic vegetables, or residential areas.
- **C.** The prevailing wind direction during the application must be away from the sensitive area.
- **D.** No applications may be made during inversion conditions or when wind speed is less than 2 mph, or greater than 7 mph.

JIM ALLAN

Agricultural Commissioner / Sealer of Weights and Measures

01/2005

SOLANO COUNTY PERMIT CONDITION "C"

CONDITIONS COVERING THE USE OF METAM-SODIUM (VAPAM, METAM CLR) AND METAM-POTASSIUM PRODUCTS (K-PAM)

Users shall comply with the provisions of the Food and Agricultural Code and Title 3 of the California Code of Regulations (3CCR), the product label including the Technical Information Bulletin (TIB), and permit conditions. Where requirements differ, users shall always follow the more restrictive conditions.

Field soil fumigations within the Sacramento Metropolitan non-attainment area (including greater Dixon, Vacaville, and Rio Vista areas) between May 1 and October 31 must be in compliance with 3CCR section 6450.1.

Consult the Agricultural Commissioner for additional conditions applying to sprinkler and flood application methods.

The following conditions apply to <u>all</u> applications:

- 1. Climatic conditions, including the absence of an "inversion" shall be suitable for commencement and continuation of each application.
- 2. Whenever irrigation equipment is required, the equipment shall be in place prior to the commencement of the application.
- 3. Whenever irrigation equipment is required and mitigation of off-site movement is necessary, a minimum of ½ inch of water shall be applied, started immediately and completed within four hours.
- 4. Water delivery system capacity shall meet or exceed the specifications of the TIB, product label, and permit conditions.

The following conditions apply to applications made within 1,500 feet of an occupied structure:

- 1. Field monitoring shall be conducted on an hourly basis during the application and a record of the following information maintained:
 - Date of application
 - Date and time of field monitoring
 - Wind speed
 - Wind direction
 - Temperature (air and soil)
 - Odor (yes or no)
 - Application start and stop time
 - Method of application
 - Grower's name
 - Permit number
 - Field location/site number
 - Number of acres treated
 - Soil moisture (% field capacity)

- Post-application field monitoring shall be conducted every two hours for a minimum of twelve hours after the application has ceased and a record of the following information maintained:
 - Date and time of field monitoring
 - Observations (changes in weather conditions, etc.)
 - Odor (yes or no)
 - Irrigation, when required, including the date, time, comments or observations, and the amount of water (inches)

Each field monitoring and post-application monitoring record shall be maintained by the permittee for a minimum of six months.

The following conditions apply to shank injection or rotary tiller applications near sensitive sites*:

- 1. A minimum buffer zone of 500 feet shall be required for all applications that exceed 64 pounds of active ingredients per acre. The Commissioner may increase the buffer zone based on a site evaluation.
- 2. When applying to multiple blocks, subsequent applications shall move away from the sensitive site, unless expressly allowed by permit.
- 3. Operational sprinkler irrigation equipment shall be in place whenever the rate exceeds 64 pounds of active ingredients per acre.
- 4. Field equipment shall meet the following minimum specifications:
 - Dry disconnect fittings (closed system transfer) shall be installed on all tanks and equipment.
 - Each tractor saddle tank shall be equipped with a minimum size #50 mesh screen on both the fill and discharge outlets.
 - Main line shutoff or by-pass valves shall be used to stop flow to the distribution manifold.
 - All systems shall be equipped with an individual shank monitoring system to detect flow problems in each individual shank.
 - Dual check valves shall be installed on each outlet between the manifold and as close as possible to the discharge point.
 - All components of the delivery system normally below ground shall be metal and suitable for use as provided on the product label.
- * The term "sensitive site" is defined as highly sensitive populations or populated areas such as residential areas, commercial areas, schools, churches, and day care centers and other areas designated based on evaluation by the Commissioner

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "D"

CONDITIONS COVERING UNATTENDED PESTICIDES, EMPTIED PESTICIDE CONTAINERS, RINSING OF CONTAINERS AND DISPOSAL

I. Control of Pesticide Containers

- A. Pesticides, or emptied containers or parts thereof, shall not be stored, handled, emptied, disposed of, or left unattended in such a manner or at any place where they may present a hazard to persons, animals (including honeybees), crops, or property.
- B. Each person who controls the use of any property or premises is responsible for all containers on the property that hold or have held a pesticide. Unless all such containers are under his / her personal control so as to avoid contact by unauthorized persons, the person who controls the use of the property shall:
 - 1. Provide a person responsible to him / her to maintain such control over containers at all times; or
 - 2. Store all such containers in a locked enclosure or, in the case of liquid pesticides in a container larger than fifty-five (55) gallon capacity, the container shall have a locked closure. Either shall be adequate to prevent unauthorized persons from gaining access to any of the material.

II. Delivery of Pesticide Containers

No person shall deliver a container which holds or has held a pesticide: to a property unless he stores it in an enclosure or closure which complies with the requirements of Item I or delivers it to a person in charge of the property or his agent, pest control operator, or his employee. The person receiving the container shall control access to it in accordance with Item I.

III. Pesticide Storage Warning Notices

Warning notices, visible from any direction, shall be posted around all pesticide storage areas. Each warning notice shall be of such size that it is readable at a distance of twenty-five (25) feet and primarily consist of the following:

DANGER POISON STORAGE AREA ALL UNAUTHORIZED PERSONS KEEP OUT KEEP DOOR LOCKED WHEN NOT IN USE

This notice shall be repeated in a language other than English when it may reasonably be anticipated that persons unfamiliar with the English language will come to the enclosure.

IV. Rinse and Drain Procedures

Each emptied container that has held less than twenty-eight (28) gallons of a liquid pesticide that is diluted for use shall be rinsed and drained by the user at the time of use, using one of the following methods:

A. Method 1: Triple Rinse and Drain

1. Use the following amount of water:

Size of Container

Less than 5 gallons 5 gallons or more

Amount of Rinse Water

1/4 container volume 1/5 container volume

- 2. Place required minimum amount of water in the container, replace closure securely, and agitate.
- 3. Drain rinse solution from container into tank mix. Allow container to drain thirty (30) seconds after normal emptying.
- 4. Repeat Steps 2 and 3 above a minimum of two times so as to provide a total of three rinses;

or

- B. Method 2: Rinse Nozzle Located In Spray Tank or Nurse Rig
 - 1. Invert the emptied container over a nozzle located in the opening of the mix tank that is capable of rinsing all inner surfaces of the container.
 - 2. Activate the rinse nozzle, allowing the rinse solution to drain into the tank. The rinse shall continue until the rinse solution appears clear and a minimum of one-half of the container volume of rinse water has been used. A minimum of fifteen (15) pounds pressure per square inch shall be used for rinsing.

V. <u>Disposal of Rinsed Containers</u>

A. Used pesticide containers rinsed in accordance with the above procedure must be disposed of in a solid waste disposal site in accordance with regulations of the State Water Resources Board and Regional Water Quality Control Board (Class II disposal sites).

For businesses (both agricultural and non-agricultural), the disposal sites for pesticide containers in Solano County are:

- 1. **Hay Road Landfill**, 6426 Hay Road, Vacaville (707) 678-4718 Open Sunday-Saturday, 8am-4pm, Closed Holidays.
- 2. **Potrero Hills Landfill**, 3675 Potrero Hills Lane, Fairfield (707) 429-9600. Containers accepted only after you have filled out their "Special Waste Profile" form and obtained authorization from their Special Waste Manager. Telephone David Grede, Special Waste Manager, at 510-262-1669.
 - Open Mon-Fri, 8:30am-4pm, Sat-Sun, 9am-4pm, Closed Holidays.
- 3. Vallejo Napa Hazardous Waste Facility, Devlin Road, American Canyon. Containers accepted for a fee, and not recycled. (800) 984-9661.
- B. A container disposal declaration form is available at these dumpsites or at the Solano County Agricultural Commissioner's Office. It must be filled out before disposing of rinsed containers.
- VI. Disposal of Outer Shipping Containers and Dry Pesticide Containers

Outer shipping containers that are not contaminated with a pesticide and containers that have held dry pesticides shall be disposed of (burned) as permitted by state and local regulations. Dry pesticide containers shall be completely emptied of the pesticide such that no residue remains in the container.

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "F"

CONDITIONS COVERING THE USE OF 2,4-D, 2,4-DB, 2,4-DP, MCPA, DICAMBA, AND ALL RESTRICTED USE PHENOXY HERBICIDES IN PROXIMITY TO VINEYARDS, BEANS, TOMATOES, PEPPERS, SUGAR BEETS, OR OTHER SUSCEPTIBLE PLANTINGS

All applications of restricted herbicides must conform to sections 6460 (Drift Control) and 6464(b) (Phenoxy and Certain Other Herbicides) of the California Code of Regulations.

No herbicide in an ester formulation shall be applied, unless specifically stated on a permit issued by the Commissioner.

♣ Changes for 2011 are indicated with this symbol

A. <u>General Requirements</u>

All application methods, the above listed Restricted Use Herbicides shall <u>not</u> be:

- > applied when wind speed is over 10 mph.
- > discharged at a height greater than 10 feet above the crop or target.
- ➤ applied in an ester formulation unless specifically stated on the permit. (Permits listing "2,4-D" refer to amine formulations only.)
 - No applications shall be made when the temperature at four (4) feet above the ground exceeds 90 degrees Fahrenheit or as required by the product use label whichever is the most restrictive.

B. Equipment Requirements

<u>Aircraft</u> (Fixed-Wing and Helicopters)

- ➤ Nozzle orifices shall not be smaller than 1/16" in diameter. (Equivalent to D4 or larger)
- > The flow of liquid to nozzles shall be controlled by a positive shutoff system.
- > Nozzle orifices shall be directed backward and parallel to the direction of flight.
- ➤ Boom pressure shall not exceed 40 psi
- ➤ Nozzles shall not be equipped with any device or mechanism which would cause a sheet, cone, fan or similar type dispersion pattern.
- > Spray boom lengths shall not exceed 3/4 of the length of the wing on fixed-wing aircraft, or 6/7 of the length of the rotor on helicopters.
 - ♣ Fixed-wing aircraft and helicopter applications are prohibited April 1-October 15 in the following areas of Solano County, Township and Ranges – T2N, R2E-/ T2N, R3E-/ T3N, R2E-/ T3N, R3E-/ T4N, R2E-/T4N, R3E-/T5N, R2E-/ T5N, R3E.
 - ♣ A permit amendment may be requested for an application between April 1-October 15 by air in the identified areas. All applications for an amended permit must include; the reason the application is needed outside of the allowable dates, mitigations proposed by the applicator to prevent drift to susceptible crops and include a provision for monitoring by the Agricultural Commissioners staff.

- ♣ Discharge shall start after entering the target site; discharge shall be shut off before exiting the target site.
- No aerial appications shall be made when the wind velocity is less than two(2) MPH or greater than seven(7) MPH at the application site or as required by the registered label, whichever is the most restrictive. Wind measurements shall be made at four (4) feet above the crop being treated.

Ground Rigs

- > Nozzle orifices shall not be smaller than 1/16" in diameter. (Equivalent to TeeJet 8006 or larger)
- Boom pressure shall not exceed 30 psi
- ➤ For low volume applications, fan nozzles with a spray angle of 80 degrees or less, and with flow rates not less than .2 gallons per minute at 15 psi may be used. (Equivalent to TeeJet 8002 LP-SS or larger)
 - Applications of a pesticide spray solution by vehicle mounted or towed ground equipment shall discharge only after entering the target site; discharge shall be shut off before exiting the target site.

C. Buffer Distance Requirements

Applications adjacent to beans, peppers, sugar beets, tomatoes, and other susceptible plantings shall only be made when wind is distinctly away from the crops, and the following buffer distances shall be maintained:

- ➤ 200 feet -Aircraft
- ➤ 100 feet -Ground (50 feet when drop nozzles are used)

Applications near commercial grape vineyards shall only be made when wind is distinctly away from the crop and the following buffer distances shall be maintained:

➤ Non-dormant Grapes: 1/2 mile -Aircraft or Ground Rig

➤ Fully Dormant Grapes: 300 feet -Aircraft 100 feet -Ground Rig

Permittees wishing to spray within the stated buffers shall obtain written permission from the grower of the susceptible crop. The written authorization shall be submitted to the Agricultural Commissioner's office and the applicator prior to the application. Written permission does not relieve the permittee and/or applicator from compliance with the label and all applicable laws and regulations or from any liability due to crop loss or damage. Forms may be obtained from the Agricultural Commissioner's office.

D. <u>Smoke Column Requirements</u>

Between March 16 and October 15, aerial applicators must employ a smoke column or other device satisfactory to the Commissioner at the time and place of application to indicate temperature inversions and the direction and velocity of the air flow. This requirement applies in that part of Solano County lying east of the line starting at the Benicia-Martinez Bridge and proceeding north along 1-680 to 1-80, then northeast along 1-80 to 1-505, and then north along 1-505 up to the Solano-Yolo County line.

JIM ALLAN

Agricultural Commissioner / Sealer of Weights and Measures

11/2010 modified for permit season 2011

SOLANO COUNTY PERMIT CONDITION "G"

CONDITIONS COVERING USE OF TOXIC MATERIALS IN PROXIMITY TO RESIDENTIAL TRACTS, SHOPPING CENTERS, SCHOOLS, HOSPITALS, RECREATION AREAS, AND OTHER SENSITIVE AREAS

- 1. Only registered materials least toxic (Toxicity Category Three or Four) to humans found to be effective for the control of a given pest may be used in proximity to residential tracts, shopping centers, schools, hospitals, recreation areas, and other sensitive areas.
- 2. Under no circumstances shall a highly or moderately toxic (Toxicity Category One or Two) material be applied unless the minimum distance between closest operating nozzle and nontarget areas (those mentioned in the first paragraph) is maintained as designated in the following table:

TYPE OF PESTICIDE	MINIMUM DISTANCE BETWEEN CLOSEST
APPLICATION EQUIPMENT	OPERATING NOZZLE AND THE NONTARGET AREA

A. Aircraft 500 feet

B. Air blast orchard sprayer 100 feet

C. High boom ground rig in open field use 100 feet

D. Ground rig applying liquid or dust formulations of pesticide 100 feet

no more than 12 inches above the soil

E. Ground rig applying liquid or gas below soil (see also

fumigation requirements if applicable)

100 feet (or in compliance w/ fumigation regulations,

which ever is more restrictive)

F. Ground rig applying dry pesticide pellets no more than

12 inches above the soil or below the soil

5 feet

All aircraft operations must comply with all the Federal Aviation Agency Regulations, particularly Section 137.51(operating over congested areas).

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "H"

CONDITIONS COVERING USE OF MATERIALS TOXIC TO HONEYBEES ON CROPS DURING THE BLOOM PERIOD

No pesticide (specified as those that include the words "toxic to bees" on the labeling of the pesticide) shall be applied to a blossoming plant in which bees are working except under the following conditions:

- I. No pesticide shall be applied if apiaries (beehives) are within the area to be treated or there is a possibility of drift onto them.
- II. The person performing the pest control shall inquire of the agricultural commissioner if any beekeepers have submitted written request for a notice of pesticide applications within one (1) mile of their apiary locations.
- III. If informed by the commissioner that an apiary is located within one (1) mile of the intended site of pesticide application, the person intending to perform the pest control shall give the beekeeper advance notice of the application, allowing the beekeeper forty-eight hours to cover or move the apiaries. (This time can be reduced if agreeable between the person performing the pest control and the beekeeper).
- IV. If the beekeeper does not choose to cover or move the apiary, the applicator may proceed with the application, providing the beekeeper understands the risk he or she is assuming. The applicator may require a written agreement from the beekeeper documenting that the beekeeper was notified about the application and chose to assume the risk.
- * Blossoming plants include crops, cover crops, and uncultivated plants (yellow star thistle, mustard, etc.) that are blooming within or in close proximity to the area to be treated.

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "I"

CONDITIONS COVERING SUBMITTAL OF NOTICE OF INTENT FOR SATURDAY, SUNDAY, AND HOLIDAYS

Notices of intent for any applications that are planned to occur on a Saturday, Sunday, or Holiday Monday shall be submitted by 3:00 PM on the preceding Friday. Holidays are New Year's Day, Martin Luther King's Birthday, Lincoln's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after (submit by Wednesday at 3:00 PM), and Christmas Day.

The notice of intent for a California Restricted Material shall include the following information (unless this information is on the permit):

- (1) Permit number;
- (2) Name and address of permittee and applicator;
- (3) Location of areas to be treated and name of farm operator;
- (4) Crop or commodity, or if there is no crop or commodity the site to be treated (e.g. uncultivated ag, fencelines);
- (5) Approximate acres or other units;
- (6) Method of application (e.g. ground or air);
- (7) Pesticide(s);
- (8) Dilution, volume per acre or other units, and dosage;
- (9) Pest(s) to be controlled:
- (10) Date intended application is to commence; and
- (11) Location and identity of sensitive areas such as hospitals, schools, residential areas including labor camps, which have changed since the permit was issued and which may be adversely impacted. A map or aerial photograph may be used for designating such locations.

The commissioner shall be notified at least 24 hours prior to the use of a pesticide requiring a permit. The notice of intent to apply a pesticide may be submitted to the commissioner by the operator of the property to be treated, by the operator's authorized representative, or by the licensed pest control operator who is to apply the pesticide. The commissioner may allow less than 24 hours notice if he determines that because of the nature of the commodity or pest problem effective pest control cannot be attained or when 24 hours are not necessary to adequately evaluate the intended application (a waiver must be obtained in these instances).

SOLANO COUNTY PERMIT CONDITION "J"

CONDITIONS COVERING THE USE OF FURADAN

The current registered label for FMC Corporation's Furadan 4 Flowable carries the following precaution for protection of waterfowl, especially endangered/threatened species:

"Do not apply immediately before or during irrigation, or on fields in proximity of waterfowl nesting areas, or on fields where waterfowl are known to repeatedly feed."

The phrase "in proximity of" on the Furadan label precaution is interpreted to mean "within one mile" and the word "waterfowl" to mean "grazing waterfowl" species (i.e. geese, pigeons, and coots). The State of California Department of Fish and Game can be contacted for information on these locations.

Thus, restricted material permits for FMC Furadan 4 Flowable in Solano County must be issued to conform with the following condition:

"Furadan shall not be used within one (1) mile of grazing waterfowl nesting areas or areas where grazing waterfowl may be expected to feed."

Failure to apply Furadan according to this condition may result in denial or cancellation of restricted material permits.

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "K"

CONDITIONS COVERING THE USE OF METHYL BROMIDE

In recent years, conditions for the use of methyl bromide as a soil or commodity fumigant have become quite complicated. Most other permit conditions have been kept relatively brief and simple, but methyl bromide use situations are so diverse and the conditions so detailed that counties must refer to a permit conditions "manual" of over 100 pages.

Therefore, applicants for methyl bromide permits must contact the Agricultural Commissioner's office well before any planned fumigations. Specific questions will be asked about the proposed fumigation such as:

- Who will be doing the fumigation?
- How many acres or cubic feet will be fumigated?
- ➤ At what rate per acre or 1000 cubic feet will the methyl bromide be applied?
- How far away is the nearest dwelling?
- Will the application be performed by employees?
- What type of equipment will be used to apply the fumigant?
- ➤ How will the field or commodity be aerated?
- ➤ Has a "Work Site Plan" been submitted for the fumigation?

The answers to these questions will allow staff to review the intended application, discuss the relevant conditions, consider alternative methods, and prepare the requested use permit.

<u>Commodity fumigations</u> may be done only by applicators who possess a current Qualified Applicator Certificate or License in the "Residential, Industrial, and Institutional" Category from the California Department of Pesticide Regulation.

<u>Soil fumigations</u> may be done under a grower's methyl bromide permit and Private Applicator Certificate. Effective January 1, 2009, when a field fumigation application is made by a licensed pest control business, the business must have a person holding a qualified applicator license or certificate with the field fumigation pest control subcategory supervising the work.

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "L"

CONDITIONS COVERING PESTICIDE USE REPORTING REQUIREMENTS FOR RESTRICTED AND NON-RESTRICTED MATERIALS FOR ALL PESTICIDE USERS (EXCEPT AGRICULTURAL PEST CONTROL OPERATORS)

A. Growers

California Code of Regulations 6626. Pesticide Use Reports for Production Agriculture

The operator of the property that is producing an agricultural commodity shall report the use of pesticides applied to the crop, commodity, or site to the commissioner of the county in which the pest control was performed. The Production Agriculture Monthly Pesticide Use Report shall be hand-delivered or mailed by the **tenth day** of the month following the month in which the work was performed.

These reports are not required from the grower if the pesticide use is reported to the agricultural commissioner by an agricultural pest control business. However, the operator of the property treated shall retain a copy of the business's report by site for two years.

For non-crop uses (fence lines, ditch banks, equipment yards, etc.), and pasture uses, submit the Monthly Summary Pesticide Use Report form.

B. Governmental Agencies and Other Pesticide Users Not Involved in Production Agriculture

All pesticide uses must be reported on the Monthly Summary Pesticide Use Report form by the **tenth day** of the month following the month of application.

These pesticide use reporting requirements do not apply to agricultural pest control businesses (PCBs) who register with Solano County. PCB use report requirements can be found in Sections 6626 and 6627 of Title 3 of the California Code of Regulations (3CCR).

JIM ALLAN

SOLANO COUNTY PERMIT CONDITION "M"

CONDITIONS COVERING THE USE OF MICROENCAPSULATED METHYL PARATHION (PENNCAP-M)

This condition pertains to fields or crops containing or bordered by weeds or plants of nectar or pollen importance to honeybees.

- 1. A 48 hour Notice of Intent is required prior to use of Penncap-M.
- 2. Penncap-M is highly toxic to honeybees and can kill entire colonies due to its slower release of methyl parathion. Therefore, applications will be allowed only under certain conditions as follows:

The application site and adjacent areas has been inspected and found free of blooming plants or weeds of nectar or pollen importance to honeybees, and a statement attesting to this fact accompanies the Notice of Intent, or

If the application site or adjacent areas contain blooming plants or weeds of nectar or pollen importance to honeybees, the grower or applicator must contact the Agricultural Commissioner's Office for a list of apiary locations within 3 miles of the application site.

- ➤ If there are <u>no</u> registered apiaries within 3 miles, the application may proceed.
- ▶ If there <u>are</u> registered apiaries within 3 miles, the grower or applicator must notify the apiary owner prior to the application. The apiary owner shall be allowed 48 hours to move his bees if she/he desires. If the apiary owner cannot be contacted promptly, the grower or applicator must notify the Agricultural Commissioner, who will attempt to contact the apiary owner. The application may proceed when all owners of apiaries within 3 miles have been notified and given 48 hours to move their bees.

JIM ALLAN

ATTACHMENT I

* When conditions or rates on labels are more stringent than permit conditions, the label instructions should prevail. Check the label to make sure crops listed below are registered for use in California.

Crop	Max a.i./acre/year	Crop M	ax a.i./acre/year
Alfalfa (forage)	0.75	Pears	0.75
Almonds	2.5	Peas (seed crop)	1.5
Apples	3.0	Peas, Succulent	3.0
Apricots	3.0	Peas, Southern	3.0
Nectarines	3.0	Pigeon Peas	1.5
Peaches	3.0	Pecans	3.0
Artichokes	2.0	Peppers	1.0 (1 day PHI)
Barley	1.0	Peppers	2.0 (4 day PHI)
Oats	1.0	Pineapple	3.0
Rye	1.0	Plums	3.0
Wheat	1.0	Prunes	3.0
Beans (ex. Lima)	3.0	Potatoes	3.0
Blueberries	3.0	Rapeseed (oil)	2.0
Broccoli	3.0	Raspberries	0.5
Brussels Sprouts	3.0	Safflower	2.0
Cabbage	3.0	Spinach	1.0
Cauliflower	3.0	Strawberries	3.0
Carrots	1.0	Sugarbeets	2.0
Celery	1.0	Sunflowers	3.0
Cherries	3.0	Sweet Corn	3.0
Citrus (nonbearing)	3.0	Sweet Potatoes	3.0
Collards	1.0	Tobacco	3.0
Cotton	3.0	Tomatoes	3.0
Cucumbers	3.0	Walnuts	3.0
Melons	3.0		
Pumpkins	3.0	Leatherleaf Fern	3.0
Squash	3.0	Ornamentals	3.0
Eggplants	1.0	Dogwood	3.0
Filberts	3.0	Lilac	3.0
Grapes	3.0	Douglas Fir	3.0
Kale	0.75	Pines	3.0
Lettuce	3.0	Shade Trees (ex. Bire	ch) 3.0
Macadamia Nuts	3.0	Spruce	3.0
Mustard Greens	1.0	Taxus	3.0
Mustard (oil & cond	.) 2.0		

SOLANO COUNTY PERMIT CONDITION "P"

CONDITIONS COVERING THE USE OF ENDOSULFAN (THIODAN)

Do not apply Endosulfan within 300 feet of surface waters such as canals, streams, rivers, lakes, lagoons, marshes, bays, estuaries, or the ocean. Each field must be evaluated in light of this requirement.

<u>Acceptable</u> sites include fields that: (1) do not drain due to berms or recirculating systems, (2) drain into sumps or evaporation ponds; or (3) drain into fallow fields or pastureland. The fallow area must have a 300 foot buffer between it and any natural drain.

<u>Unacceptable</u> sites include those fields that drain: (1) directly or indirectly into any body of water where fisheries and/or aquatic species are threatened; (2) to sumps or ponds that drain or are pumped into a body of water where fisheries and/or aquatic species are threatened; or (3) into a fallow field or pastureland whose drainage funnels run-off into a body of water where fisheries and/or aquatic species are threatened.

GENERAL

- 1. Do not apply Endosulfan to fields under irrigation.
- 2. Do not irrigate for 72 hours following an Endosulfan application.
- 3. Do not apply more than 1.5 lb. a.i./acre/application. Orchard crops are exempted.
- 4. Do not exceed the maximum a.i./acre/year for crops listed on Attachment (*).

GROUND AND AERIAL APPLICATIONS

- 1. Wind velocity shall not exceed 10 m.p.h.
- 2. Spray material shall not be discharged at a height of more than ten (10) feet above the crop or target. Discharge shall be shut off whenever it is necessary to raise the equipment over obstacles such as trees or poles.
- 3. Aircraft boom pressure shall not exceed 40 p.s.i.
- 4. Aircraft nozzles shall not be equipped with any device or mechanism that would cause a sheet, cone, fan, or similar type dispersion of the discharge material, except as otherwise provided.
- 5. The flow of liquid to aircraft nozzles shall be controlled by a positive shutoff system as follows:
 - i) Each individual nozzle shall be equipped with a check valve and the flow controlled by a suckback device or a boom pressure release device; or
 - ii) Each individual nozzle shall be equipped with a positive action valve.
- 6. Aircraft nozzles shall be equipped with orifices directed backward and parallel to the horizontal axis of the aircraft in flight.
- 7. Fixed wing aircraft and helicopters operating in excess of 60 m.p.h. shall be equipped with jet nozzles having an orifice of not less than 1/16 inch in diameter.
- 8. Helicopters operating at 60 m.p.h. or less shall be equipped as follows:
 - Nozzles having an orifice not less than 1/16 inch in diameter. A number 46 (or equivalent) or larger whirlplate may be used;
 - ii) Fan nozzles with a fan angle number not larger than 80 degrees and a flow rate not less than one gallon per minute at 40 p.s.i. (or equivalent); or
 - iii) The Microfoil (R) boom (a coordinated spray system including airfoil-shaped nozzles with each orifice not less than 0.013 inches in diameter).

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SOLANO COUNTY PERMIT CONDITION "Q"

CONDITIONS COVERING POSTING OF SUNFLOWER SEED FIELDS

In order to prevent pesticide exposure to roguers or other sunflower field workers, the following posting requirements must be followed:

- 1. In addition to any oral warnings required by the pesticide label and Section 6618 of the California Code of Regulations (CCR), <u>posting</u> shall be required after the application of any "Danger" or "Warning" material which carries a Restricted Entry Interval (REI) greater than 24 hours.
- 2. Warning signs shall be placed by the farm operator or his agent at the usual point or points of entry and every 600 feet along public rights of way. Signs shall be of a size so that the words "DANGER" and "PELIGRO", and "PESTICIDES" and "PESTICIDAS", and "KEEP OUT" and "NO ENTRE" are readable and the skull and crossbones symbol are clearly visible at a distance of 25 feet. The signs shall include the name of the pesticide applied, the REI time and date, the grower's name, and the site identification number.
- 3. The signs shall not be posted unless a pesticide application has been made or is scheduled within the next 24 hours, and they shall remain posted during the Restricted Entry Interval.
- 4. Warning signs shall be removed by the farm operator or his agent within three (3) days after the end of the REI. Signs shall be removed <u>before</u> any employees are allowed to enter to engage in an activity requiring substantial contact with treated plants.
- 5. Persons reentering a treated field after the REI but within 7 days following the application to engage in activities resulting in contact with treated plants or surfaces shall wear clothing which includes long sleeves and long pants. Employees shall wash thoroughly before eating and at the end of each day. Clothes should be changed and washed daily.
- 6. Phytosanitary field inspections of seed crops cannot be done in violation of REI restrictions. Growers and seed company personnel should coordinate irrigation and spraying to assure safe working conditions for all personnel who enter fields.

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