



COUNTY OF GLENN
DEPARTMENT OF AGRICULTURE
720 N. Colusa Street, Willows CA 95988
530-934-6501 -- Fax 530-934-6503
Website: www.countyofglenn.net

Marcie Skelton
Agricultural Commissioner
Sealer of Weights &
Measures

2020

RICE PESTICIDE PERMIT CONDITIONS

Cyhalofop-butyl Permit Conditions

General requirements:

- 1) A **Restricted Materials Permit** must be obtained from the Glenn County Agricultural Commissioner prior to any use of Cyhalofop-butyl in Glenn County.
- 2) A **Notice of Intent** (NOI) is required for all applications of Cyhalofop-butyl:
 - a) A NOI is required and shall be day and site specific
 - b) Growers/PCOs must **submit NOI's 48 hours prior** to the intended day of application of Cyhalofop-butyl.
 - c) Persons filing the NOI's for Cyhalofop-butyl must call the NOI line at (530) 934-6569 or may FAX their NOI's to (530) 934-6503.
 - d) All Requirements of the Food and Agricultural Code and Title 3, California Code of Regulations that apply to the use of restricted materials shall apply to the use of Cyhalofop-butyl.
- 3) Only Adjuvants approved by the manufacturer may be used with Cyhalofop-butyl.

Aerial applications:

- 1) Aerial applications of Cyhalofop-butyl will only be allowed in the Cyhalofop-butyl aerial spray zones within Glenn County (refer to maps for area) and under use recommendations adopted as permit conditions within Glenn County.
 - a) Planes and pilots must be certified prior to making applications of Cyhalofop-butyl within the Cyhalofop-butyl aerial spray zones.
 - b) For all aerial applications of Cyhalofop-butyl, use only a spray adjuvant on the manufacturer's approved list and water. No other material may be used in the mix solution.
 - c) Apply using fixed wing aircraft only.



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- d) Wet booms must be fitted with flat fan 4015 spray tips set at 0° deflection.
 - e) Minimum wind restriction is **3 mph and maximum wind restriction is 7 mph**, measured at 4 feet above the crop canopy.
 - f) Do not apply when the temperature is greater than 85° F.

Ground applications:

- 1) All Pest Control Operators (PCO's) and Private Applicator's using ground application equipment must attend an annual Cyhalofop-butyl stewardship training program prior to any application of Cyhalofop-butyl.
- 2) Ground applications of Cyhalofop-butyl shall be made with a **minimum wind velocity of three (3) mph to a maximum wind velocity of 10 mph.**
- 3) No applications of Cyhalofop-butyl shall be made within 50 feet of any non-target cereal and grass crops.
- 4) Refer to product labeling for additional requirements. As provided in the California Code of Regulations, the agricultural commissioner may suspend any Cyhalofop-butyl applications in any part of the county if symptoms of Cyhalofop-butyl damage to sensitive crops (any crop other than rice) begin to appear.



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Thiobencarb Permit Conditions **(Abolish, Bolero, League MVP)**

Growers are required to attend the California Rice Commission Certified Thiobencarb Stewardship meeting annually prior to the use of Thiobencarb. The County Agricultural Commissioner's Office may certify a grower that cannot attend a Thiobencarb Stewardship Meeting by having the grower view a PowerPoint presentation. Contact our office to make arrangements.

General requirements:

- 1) A **Restricted Materials Permit** must be obtained from the Glenn County Agricultural Commissioner prior to any use of Thiobencarb in Glenn County.
- 2) A **Notice of Intent** (NOI) must be submitted at least **48 hours** prior to the application.
- 3) A **Notice of Application** (NOA) must be submitted within **24 hours** of the completion of the application.
- 4) **Failure to submit a NOI/NOA is considered a violation.**
 - a) NOIs must include proposed date and time of application, grower name, permit number, applicator's name, site number, road location, treated acres, application method, material used, rate and dilution.
 - b) NOAs must include permit number, grower name, site number, treated acres, material used, ***date applied** and person reporting.

- The NOA must be submitted by the Pest Control Business (PCB) when applied by a PCB or by the grower when grower applied, except in the case of Abolish.

***The NOA must be submitted by the grower if Abolish is applied because the water holding period starts when the tail water reaches the end tail box.**

1) Seepage control requirements:

- a) Growers shall not allow water to seep through borders surrounding rice fields.
 - Borders surrounding each rice field shall be compacted before water is allowed to fill the field; the degree of compaction shall be sufficient to prevent water from seeping through the border. For example, compaction may be achieved by driving the tires or tracks of a tractor, or other heavy vehicle, on one side of the border. This requirement applies to new or reworked existing borders for the current rice season.



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2) Water-hold requirements:

a) Abolish 8 EC

- Nineteen (19) days
- If the system is under the control of one permittee, treated water may be discharged from the application site in a manner consistent with product labeling
- If the system is under the control of more than one permittee, treated water may be discharged from the application site seven (7) days following application
- The system may discharge twenty (20) days following the last application within the system
- Tail water recovery systems must be approved annually by the Glenn County Ag Commissioner's office
- Any leakage will be considered a violation and subject to enforcement action

b) Bolero UltraMax

- Thirty (30) days
- Nineteen (19) days when within a tail water recovery system
- If the system is under the control of one permittee, treated water may be discharged from the application site in a manner consistent with product labeling
- If the system is under the control of more than one permittee, treated water may be discharged from the application site seven (7) days following application
- The system may discharge thirty-one (31) days following the last application within the system
- Tail water recovery systems must be approved annually by the Glenn County Ag Commissioner's office
- Any leakage will be considered a violation and subject to enforcement action

c) League MVP

- Thirty (30) days
- Nineteen (19) days when within a tail water recovery system
- If the system is under the control of one permittee, treated water may be discharged from the application site in a manner consistent with product labeling
- If the system is under the control of more than one permittee, treated water may be discharged from the application site seven (7) days following application
- The system may discharge thirty-one (31) days following the last application within the system



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- Tail water recovery systems must be approved annually by the Glenn County Ag Commissioner's office
 - Any leakage will be considered a violation and subject to enforcement action

3) Tail-box requirements:

- a) All boards must be in place in each tail-box and maintained in such a manner as to prevent water spillage.
- b) Soil must be used to prevent pesticide treated rice field water from contacting the drain box boards.
 - The box must either be filled with soil or a berm must be constructed to assure an above water soil barrier exists between the field and the box. This will also reduce the possibility of leakage caused by animal activity.
- c) No spillage of water over the boards is allowed.

When the water is released after the holding period it shall be released as slowly as possible. Do not exceed two (2) inches of water over a drain box weir for the first seven (7) days.

No emergency releases of rice tail water will be authorized for Bolero applications except for high salinity levels.

Remember use reports must be submitted by grower (or his/her designated agent) if grower applied, or by the Pest Control Business if applied by a PCB.

It is very important that these conditions are followed in order to protect the future use of this material.



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**Emergency Release Conditions for Rice Irrigation Water Treated
With Bolero (Thiobencarb)**

Emergency release requirements (salinity damage):

The county agricultural commissioner may authorize the emergency release of field water after a minimum 19-day water-hold period after the last **Thiobencarb** application, following the review of a written application that demonstrates salinity levels are damaging to the crop.

- 1) Applicants for such emergency releases must provide the following information:
 - a) All information indicated on the emergency release request (Form A), including a description of the severity and extent of salinity damage.
 - b) Electrical conductivity (EC) measurements, expressed as deciSiemens per meter (dS/m) or microSiemens per centimeter ($\mu\text{S}/\text{cm}$), from field water in each paddy suspected of having salinity problems. To most effectively demonstrate salinity problems, measurements should be taken wherever salinity problems are evident.
 - c) The instrument (make and model) used to determine EC measurements. The instrument must have a sensitivity range that accommodates the full range of EC values in intake and paddy water (usually a range of 0-5.0 dS/m or 0-5,000 $\mu\text{S}/\text{cm}$ should be sufficient) and should have a resolution of not less than five percent. The instrument must be calibrated according to the manufacturer's instructions. The applicant must specify the method of temperature compensation (i.e., automatic, conversion table).
 - d) Who made the EC measurements?
 - e) The source of irrigation water (e.g., district supply canal, drainage canal, well, etc.).
- 2) An emergency release may be granted only if all of the following conditions are satisfied:
 - a) All required information is provided.
 - b) Water management requirements for rice pesticides other than thiobencarb are satisfied.
 - c) EC of paddy water exceeds 2.0 dS/m or 2,000 $\mu\text{S}/\text{cm}$.
 - d) The county agricultural commissioner or his/her staff inspects the site.
- 3) Water may be released from paddies where EC measurements exceed 2.0 dS/m or 2,000 $\mu\text{S}/\text{cm}$ and from paddies down gradient from such paddies within the same field. Water shall only be released in an amount necessary to mitigate the salinity problem.
- 4) Those issued an emergency release must submit to the county agricultural commissioner, a report (Form B) indicating the time and duration of the emergency release and data that can be used to calculate the total amount of water released during the emergency release.



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Thiobencarb Emergency Release Request - Form A
Rice Pesticide Water Management Requirements

Grower: _____ Permit No.: _____

Address: _____ Zip Code: _____

Site/Field location: _____ Site No.: _____

Chemical applied: _____ Chemical applied: _____

Rate of application: _____ Rate of application: _____

Date of application: _____ Date of application: _____

Average water depth at application: _____ Average water depth at application: _____

Starting date of emergency release: _____

Number of acres treated in field: _____ Laser leveled: Yes___ No___

Type of irrigation system: Flow through___ Recycle___ Static___ Other___

Date flooding began: _____ Number of days it takes to fill field: _____

Describe problem that led to emergency release: _____

Steps that can be taken to prevent emergency releases from this field in future years: _____

Recommendation by (attach): _____ Application by: _____

Grower's signature: _____ Date: _____

Approved by: _____ Date: _____



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Thiobencarb Emergency Release Report - Form B
Rice Pesticide Water Management Requirements

Grower: _____ Permit No.: _____

Address: _____ Zip Code: _____

Site/Field location: _____ Site No.: _____

Beginning date of release: _____ Ending date of release: _____

The grower must determine the amount of water to be discharged during the emergency release period. To do this, measure the width of each weir opened to allow the discharge. Then, on a daily basis, measure the height of water flowing over each weir. Record all information in the table below.

| Weir 1 | | Weir 2 | | Weir 3 | |
|--------|------------------|--------|------------------|--------|------------------|
| Width: | | Width: | | Width: | |
| Date: | Height of Water: | Date: | Height of Water: | Date: | Height of Water: |
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Bispyribac-sodium Permit Conditions

General requirements:

- 1) A **Restricted Materials Permit** must be obtained from the Glenn County Agricultural Commissioner prior to any use of Bispyribac-sodium in Glenn County.
- 2) A 24 hour Notice of Intent must be filed with the Glenn County Department of Agriculture prior to the application of Bispyribac-sodium in Glenn County.
- 3) All Requirements of the Food and Agricultural Code and Title 3, California Code of Regulations that apply to the use of restricted materials shall apply to the use of Bispyribac-sodium under permit in Glenn County.
- 4) Droplet size for both ground and air applications should be in the "Medium" size category as defined in the August 1999 ASAE S572 publication entitled, "Spray Nozzle Classification by Droplet Spectra".

Aerial applications:

- 1) No air application **within ½ mile** of walnut orchards.
- 2) All applications must take place during daylight hours.
- 3) No applications may take place during low-level inversion conditions. Inversion conditions begin to diminish after a 3 degree F temperature rise from the morning low. They may return after a 5 degree F drop in temperature in the afternoon. Application would be possible after the morning temperature rise and application should cease after a 5-degree drop in temperature in the afternoon. Wind conditions, mentioned below, could mitigate these guidelines.
- 4) Applications must take place with a minimum wind speed of at least **2 mph and not more than 8 mph** as measured at a height of four feet above the ground. If sensitive crops or plants are downwind, extreme caution must be used under all conditions.
- 5) With the exception of No. 1 above, label buffer zones must be strictly adhered to.



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- 6) Use of a smoke column shall be present for the duration of the application to indicate temperature inversions and the direction of airflow. **** NEW FOR 2020 ****
 - 7) For the duration of the application, the aerial applicator shall have an individual on the ground, at the site of application. They shall monitor conditions and have the ability to waive off the application in the event that conditions are unfavorable to proper application.
 - 8) Applicators shall maintain a written log indicating air temperature, wind speed, and wind direction prior to beginning the application, and to be recorded every tank refill or hourly, whichever occurs first, for each day of application. This log shall be kept for a minimum of one year after application and shall be made available for review by the Agricultural Commissioner's staff upon request.
 - 9) Aircraft and pilots must be certified prior to making applications of Bispyribac-sodium.

Ground applications:

- 1) Follow label requirements for ground application equipment specifications and application parameters.

Residential Area / Princeton:

- 1) All aerial applications of Bispyribac-sodium that are within 2 miles of the residential area of Princeton shall only be applied when the wind is blowing away from this sensitive site.



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Propanil Permit Conditions

General requirements:

- 1) A **Restricted Materials Permit** must be obtained from the Glenn County Agricultural Commissioner prior to any use of Propanil in Glenn County.
- 2) A 24 hour Notice of Intent must be filed with the Glenn County Department of Agriculture prior to the application of Bispyribac-sodium in Glenn County.
- 3) All Requirements of the Food and Agricultural Code and Title 3, California Code of Regulations that apply to the use of restricted materials shall apply to the use of Bispyribac-sodium under permit in Glenn County.
- 4) No emulsifiable concentrate formulation shall be applied.

Aerial applications:

- 1) Applications using aircraft shall be made in accordance with the following requirements.
 - a) Aerial applications shall not be made within four miles of cultivated commercial planting of prunes.
 - b) No more that 720 acres may be treated by aircraft within each county per day. Each operating aircraft nozzle shall produce a droplet size, in accordance with the manufacturer's specifications, not less than 600 microns volume median diameter (Dv0.5) with not more than ten percent of the diameter by volume (Dv0.1) less than 200 microns.
- 2) Notice of Intent Procedures:
 - a) A notice of intent is required and shall be day and site specific. Aerial Pest Control Operators must specify the intended day of application. Because of the limited acreage, aerial applicators requesting acreage will be contacted by an agricultural biologist by 12 pm to provide allocated acres for the next day.
 - b) Notices of intent may be submitted 3 days or 72 hours prior to the intended day of application. If you are unable to start or complete the application, you must notify the Glenn County Agricultural Department preferably by 12 pm on the day of proposed application.



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- c) Aerial Pest Control Operators may submit a notice of intent by calling (530) 934-6569 or by faxing a completed notice to (530) 934-6503.
- d) No applications shall be made if the wind speed exceeds 10 mph.
- e) Pest control operators should call the weather station at (530) 982-1021 to obtain wind speed data and temperature conditions.
- f) It is imperative that pest control operators submit pesticide use reports within 7 days of completion of the application.

Ground applications:

- 1) Applications by ground equipment shall be made in accordance with the following requirements.
 - a) Ground applications shall not be made within one mile of cultivated commercial plantings of prunes, except as provided in (I) and (II) below.
 - I. The commissioner may allow applications to be made to sites not less than one-half mile from cultivated commercial plantings of prunes if the following requirements are met:
 - Prior to the application, the operator of the property shall provide to the commissioner a recommendation written by a licensed pest control adviser stating there are no other feasible pest management alternatives;
 - Onsite monitoring of wind speed and wind directions shall be conducted by the applicator in a manner approved by the commissioner throughout the entire application. A record of recorded data shall be retained for one year;
 - II. A positive airflow away from the cultivated commercial plantings of prunes is present throughout the entire application.
 - b) The commissioner may allow applications to be made to sites less than one-half mile from cultivated commercial plantings of prunes when the following requirements are met in addition to the requirements of (a) above:
 - I. The commissioner shall provide onsite monitoring of all ground applications when within ½ mile of prunes.
 - II. The commissioner shall provide for notice to, and opportunity to comment by, any owner of cultivated commercial plantings of prunes within one-half mile of the application.
 - III. Commissioner authorization form and conditions shall be completed.
- 2) Each operating nozzle shall produce a droplet size, in accordance with the manufacturer's specifications, not less than 500 microns volume median diameter (Dv0.5) with not less than ten percent of the diameter by volume (Dv0.1) less than 200 microns.



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Malathion Special Use Requirements

- 1) The California Department of Food and Agriculture and State Water Quality Board request that you hold rice water treated with Malathion for four days (96 hours) to reduce the residues in State waters.
- 2) The following restrictions are requested to be followed when applying Malathion by air:
 - a) Equipment shall be leak proof with flow of liquid to nozzles controlled by a positive shut-off system whereby each individual nozzle is equipped with a check valve and the flow of liquid controlled by a suck-back device or a boom pressure release device; or each individual nozzle equipped with a positive action valve.
 - b) Fixed wing aircraft and helicopters operating in excess of 60 mph shall be equipped with jet nozzles having an orifice not less than 1/16 inch diameter. Orifices shall be directed backward parallel to the horizontal axis of the aircraft in flight.
 - c) Helicopters operating at 60 mph or less shall be equipped with either:
 - Nozzles having an orifice not less than 1/16 inch in diameter. Orifices shall be directed backward parallel to the horizontal axis of the aircraft in flight; or a No. 46 (or equivalent) or larger whirl plate may be used.
 - The Microfoil® boom (a coordinated spray system including airfoil shaped nozzle with each orifice not less than 0.013 inches in diameter) or equivalent type approved by the director. Orifices shall be directed backward parallel to the horizontal axis of the aircraft in flight.
 - Fan nozzles with a fan angle number not larger than 80 degrees and a flow rate not less than one (1) gallon per minute at 40 pounds PSI (or equivalent).
 - Pressure: nozzle pressure on aircraft shall not exceed 40 pounds PSI.
 - Elevation: no Malathion shall be applied more than ten (10) feet above the crop. Discharge shall be shut off whenever it is necessary to raise the equipment over obstacles such as trees or poles.
 - The working boom length on fixed wing aircraft shall not exceed 3/4 of the wingspan and the working boom length on helicopters shall not exceed 6/7 of the total rotor length or 3/4 of the total rotor length where the rotor length exceeds forty (40) feet.