

# COUNTY OF MONTEREY

## 1,3-DICHLOROPROPENE SOIL FUMIGATION PLAN

County Use Only	
Date Received:	____/____/____
Time Received:	____:____ a.m. p.m.
Biologist:	_____

Property Operator: \_\_\_\_\_

Permit Number: \_\_\_\_\_ Site ID Number: \_\_\_\_\_

Ranch Name: \_\_\_\_\_ Grower Contact & Phone No.: \_\_\_\_\_

Pest Control Business: \_\_\_\_\_ PCA & Phone No.: \_\_\_\_\_

Fumigant Brand Name: \_\_\_\_\_ EPA Reg. No.: \_\_\_\_\_

Fumigation Code: \_\_\_\_\_ Tarp Name (if applicable): \_\_\_\_\_ Commodity: \_\_\_\_\_

Use the following table to record the calculations. List blocks in the proposed sequence of treatment, use supplemental pages if needed. Applications are prohibited for rates and block sizes that exceed what is presented in the [setback tables](https://tinyurl.com/13D-Setback-calculator) <<https://tinyurl.com/13D-Setback-calculator>> . Round up to the nearest rate using two decimal places and block size, where applicable.

No. of Acres to be Fumigated per Block	Broadcast Equivalent Application Rate (lbs./acre) (Max app rate: 332 lbs./ac)	Setback Distance* (ft) Min distance: 100 feet	Vacating Agreements	Will there be any adjacent 1,3-D applications within 36 hours?*	Distance to adjacent 1,3-D application block (ft) (if applicable)
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	
Soil Moisture Determination Option: 1 <input type="checkbox"/> (Irrigation) 2 <input type="checkbox"/> (Feel and Appearance) 3 <input type="checkbox"/> (Soil Moisture Sensor)					
Table Continued on Supplemental Page Yes <input type="checkbox"/> No <input type="checkbox"/>					

\*Adjacent applications that occur within 36 hours from the end of an application to the start of another application must calculate the setback distance for all applications using the combined acreage, highest application rate, and most restrictive fumigation method of those applications when the distance between the applications is equal to or less than the combined setback distances of each application. This requirement does not apply if 1,3-D TIF tarps are used or if there is a 36-hour separation from the end of one application to the start of another.

**If you are estimating the actual acreage, it is critical that you overestimate rather than underestimate.**

Total number of acres to be fumigated: \_\_\_\_\_ \*\* Total amount of product to be applied: \_\_\_\_\_

\*\*This is the maximum amount of product that should be the sum of all product use reports submitted to the county for the listed applications.

Permit Supplement Issued By: \_\_\_\_\_ Date: \_\_\_\_\_



# CALCULATE BROADCAST EQUIVALENT RATE

- The “broadcast equivalent rate” relates to the rate of fumigant applied within the entire perimeter of the application block. If applicable, the “broadcast equivalent rate” must be calculated to determine the setback zone distance.
- To calculate the broadcast equivalent rate the following information is needed:
  - Gallons of product per treated acre
  - Bed bottom width (inches)
  - Center-to-center row spacing (inches)
  - Application block size (acres)
- Gallons of product **per treated acre** is the ratio of total amount of product applied to the size of the **total area treated** (e.g., the rate of product applied in the bed). For bedded applications, the **total area treated** is the summation of the area (i.e., length x width) of each treated bed bottom that is located within the application block as shown by the black areas in Figure 1. The area of the space between the beds is not factored in the total area treated. The **application block size** is the acreage within the perimeter of the fumigated portion of a field (including furrows, irrigation ditches, roadways). The perimeter of the application block is the border that connects the outermost edges of total area treated with the fumigant product. Refer to the fumigant product label for additional information.

Figure 1. Bedded/Strip Application  
(1 acre application block)

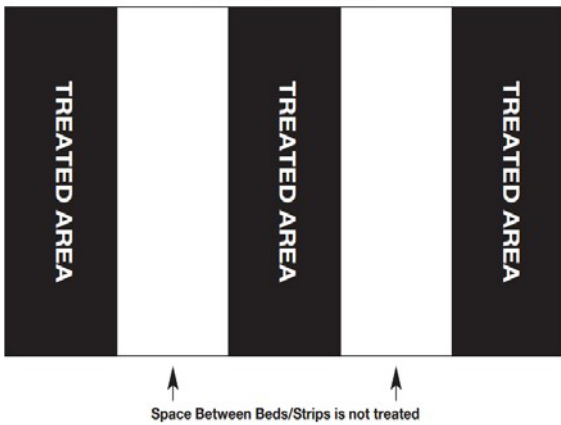
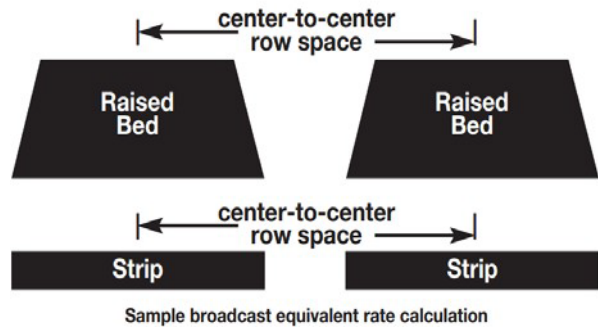


Figure 2. Center Row Spacing



- The bed width must be measured from the bottom of the bed
- The center-to-center row spacing must be calculated as shown in Figure 2

The “broadcast equivalent rate” must be calculated with the following formula:

Bed Bottom Width (inches)		*Lbs/gal of product per treated acre applied in the bed	×		=	Broadcast equivalent rate *(lbs/gal of product/acre)

center-to-center row spacing (inches)

\*Use either pounds or gallons depending on product.

# 1,3-DICHLOROPROPENE IDENTIFICATION LOG

A	B	C	D	E	F	G
# on Map	Address Or Location Description (Name And Phone If Available)	Vacating Agreement	Notification Information for Neighbor (If Applicable)	Method of Notification (Mail, Door Hanger, In Person) (If Applicable)	Method Requested for 48 hr. Vacating Notification	Date of 48 hr. Vacating Notification
1		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
2		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
3		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
4		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
5		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			

\*GV= Grower to vacate. Signature to be acquired by County at time of supplement issuance.

<p><b>GV*</b> Structures under control of the owner of the application block: I agree to vacate the occupied structures in the setback area during the time of the fumigation and for 7 days (168 hours) after the fumigation is complete. I understand that no one can enter any identified structures in the setback area for 7 days.</p>	<p>Signature: _____ Date: _____</p>
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\*GV= Firma es adquirida por el Condado al momento que se emite el permiso para fumigar.

<p><b>GV*</b> Estructuras bajo control del propietario del bloque de la aplicación: Estoy de acuerdo en desocupar las estructuras ocupadas en el área de retiro durante el tiempo de fumigación y durante 7 días (168 horas) después de finalizada la fumigación. Entiendo que nadie puede ingresar a ninguna estructura identificada en el área de retiro durante 7 días.</p>	<p>Firma: _____ Fecha: _____</p>
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# 1,3-DICHLOROPROPENE IDENTIFICATION LOG CONTINUED

A	B	C	D	E	F	G
# on Map	Address Or Location Description (Name And Phone If Available)	Vacating Agreement	Notification Information for Neighbor (If Applicable)	Method of Notification (Mail, Door Hanger, In Person) (If Applicable)	Method Requested for 48 hr. Vacating Notification	Date of 48 hr. Vacating Notification
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			
		<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A			

## Fumigation Plan Map Legend

The following symbols/abbreviations should be used to identify landmarks on the fumigation plan map(s):

**H** = House

**OB** = Business

**P** = Park

**S** = School

**B** = Barn

**DC** = Daycare

**O** = Office

**C** = Church

**GV** = Grower to vacate


**BA** = Bystander area such as parking lot


**BS** = Bus stop

**AW** = Ag well

**PW** = Potable well

**CW** = Chemigation well

 = designates an area that will not be fumigated

 = designates a distance measured from the application block to a structure

**X** = Chemigation injection point(s)

# Vacating Agreement for 1,3-Dichloropropene

I understand that \_\_\_\_\_ \ \_\_\_\_\_  
Fumigating Permittee Monterey County RM Permit No.

is going to fumigate their field at \_\_\_\_\_ . I also  
Location of property to be fumigated

understand that my structure (residence, onsite employee housing, businesses, storage building, barn, shed, garage or \_\_\_\_\_) is within 100 feet  
Other site identified by the commissioner

of the perimeter of the fumigated field.

Consequently, I agree to move out of my structure during the time and during the seven consecutive day period after the application is complete.



I understand that the fumigating permittee will give me written notification, at least 48 hours before the fumigation, of the specific date and time of the start of the fumigation and the anticipated time I can re-enter my structure.

I understand that no one can enter any structures within 100 feet of the fumigated field on my property for at least 7 days.

I will be responsible for assuring that no one who is under my direct control is allowed in any structure on my property that is within 100 feet of the fumigated field.

I understand that during the time I agree to vacate my structure, I may return to my property provided I do not enter any structures that are within 100 feet of the fumigated field.

**I understand that if I fail to do the items to which I have agreed, the Agricultural Commissioner's office may take an enforcement action against me for violation of the conditions of this restricted material permit.**



Vacating  
Property Operator \_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature Date

Fumigating  
Property Operator \_\_\_\_\_  
Print Name

\_\_\_\_\_  
24-Hour Contact Phone Number





Number on Map: \_\_\_\_\_

Date of Delivery: \_\_\_\_\_

## NOTICE TO VACATE PER VACATING AGREEMENT

*(A copy of this notice must be presented to the operator/occupant of the property to be vacated **at least 48 hours prior** to the start of the fumigation.)*

Thank you for agreeing to move out of your residence during the fumigation of my property, so the buffer zone can extend into the area where your residence is located.

This is to notify you that you will need to **move out** of your property on:

\_\_\_\_\_ am pm  
Date Time Circle one

We anticipate that you will be able to **move back** into your property on:

\_\_\_\_\_ am pm  
Date Time Circle one

Please sign below to acknowledge that you have read and understand the vacating requirements and agree to comply with them.

Vacating  
Property Operator \_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature Date

Fumigating Property  
Operator \_\_\_\_\_  
Print Name

\_\_\_\_\_  
24 Hour Contact Phone Number

**Fumigating property operator must keep a signed copy for their records and submit a signed copy with your NOI.**

Número en el mapa: \_\_\_\_\_

Fecha de entrega: \_\_\_\_\_

## NOTIFICACION PARA EVACUAR LA PROPIEDAD ASI COMO FUE ACORDADO

*(Esta noticia deberá ser presentada al operador o a la persona que esté viviendo y ocupando la propiedad que va a ser evacuada **al menos 48 horas antes** del comienzo de la fumigación.)*

Gracias por acordar en evacuar su residencia durante la fumigación de mi propiedad así para que la zona restringida se extienda dentro el área donde su residencia está ubicado.

Esto es para notificarte que necesita evacuar su propiedad en:

\_\_\_\_\_ am pm  
Fecha Hora circule el tiempo apropiado

Anticipamos que usted podrá regresar a su propiedad en:

\_\_\_\_\_ am pm  
Fecha Hora circule el tiempo apropiado

Firme en la parte indicada para comprobar que si ha leído y entiende los requisitos del acuerdo de evacuar y está en acuerdo en cumplir con ellos.

Persona que evacuará  
la propiedad

\_\_\_\_\_  
Nombre en letra molde

\_\_\_\_\_  
Firma

\_\_\_\_\_  
Fecha

Empresa o persona  
cual llevara a cabo  
la fumigación

\_\_\_\_\_  
Nombre en letra molde

\_\_\_\_\_  
Número de Teléfono del Dueño

**El operador de la propiedad que será fumigada debe conservar una copia firmada para sus registros y presentar una copia firmada con su NOI.**

# COUNTY OF MONTEREY



AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS & MEASURES  
JUAN HIDALGO, AGRICULTURAL COMMISSIONER/SEALER  
1428 ABBOTT STREET – SALINAS, CALIFORNIA 93901  
PHONE: (831) 759-7325 FAX: (831) 422-5003  
WEBSITE [ag.co.monterey.ca.us](http://ag.co.monterey.ca.us)

## Restricted Material Permit (RMP) Alternatives and Mitigation Measures Considered

Title 3 of the California Code of Regulations (CCR), section 6426 requires a permit applicant (grower) and their pest control adviser to consider practical mitigation measures and feasible alternatives to the use of restricted materials before applying for a restricted material permit with the county agricultural commissioner (CAC). This section provides:

**6426 (a)** Each licensed agricultural pest control adviser and grower, when determining if and when to use a pesticide that requires a permit, shall consider, and if feasible, adopt any reasonable, effective and practical mitigation measure or use any feasible alternative which would substantially lessen any significant adverse impact on the environment.

“**Feasible Alternatives**” means other chemical or non-chemical procedures which can reasonably accomplish the same pest control function with comparable effectiveness and reliability, considering economic, environmental, social, and technological factors and timelines of control.

### Examples of Alternatives (Alternatives to Restricted Materials)

#### Non-Chemical Alternatives

- Beneficials - release beneficials insects, encourage natural enemies, parasitoids
- Owl Boxes and raptor perches for vertebrate rodent control
- Bacillus Thuringiensis (Bt)
- Sanitation (weeds, remove unpicked fruit, mummy nuts, etc.)

#### Cultural Controls

- Choose proper plants for the climate
- Choose varieties for pest and disease resistance

#### Manual Alternatives

- Mowing, discing, or hoeing weeds
- Use of weed burners/flame weeding
- Trapping to control rodents and insects
- Cover crop/mulching to reduce weed growth

#### Physical Exclusion

- Fabric row covers to exclude birds and insects
- Weed control fabric to suppress weeds

### Examples of Alternatives (Alternatives to Field Fumigants)

- |                           |                       |                                 |
|---------------------------|-----------------------|---------------------------------|
| • Crop rotation           | • Resistant varieties | • Fallow fields                 |
| • Mechanical weed control | • Soil solarization   | • Timing on planting            |
| • Equipment sanitation    | • Mulch               | • Non-restricted use pesticides |



**NORTH COUNTY OFFICE**  
29-B BISHOP STREET – PAJARO, CA 95076  
PHONE: (831) 784-5900 FAX: (831) 724-6935



**SOUTH COUNTY OFFICE**  
522 N 2<sup>ND</sup> STREET – KING CITY, CA 93930  
PHONE: (831) 284-5266 FAX: (831) 385-0551

“Feasible Mitigation Measure” means a condition attached to the approval of an activity which, if implemented, would substantially reduce any adverse impact, considering economic, environmental, social, and technological factors and timelines of control.

### **Examples of Mitigation (Reducing the adverse effects of Restricted Materials)**

#### **Proper Timing**

- Treat weeds when small to use less material
- Use of preemergent herbicides to reduce repeated sprays of hard to control weeds
- Time application to coincide when pest is most vulnerable

#### **Less Toxic Pesticides**

- Non-restricted products
- Organic products
- FIFRA section 25(b) exempt products
- Mating disrupters

#### **Less Pesticides**

- Spot treatments
- Reduce rates if possible

#### **Integrated Pest Management (IPM)**

- Determine pest economic threshold and when to treat
- Insect trapping
- Scouting fields

#### **Application Technology**

- Selection of equipment to minimize drift
- Helicopter vs. ground sprayer based on crop coverage and weather conditions

#### **Application Monitoring**

- Use additional personnel to assist with application to reduce risk

### **Examples of Mitigations (Reducing the adverse effects of Field Fumigants)**

- Fumigate smaller blocks – less chance to off gassing and affecting nearby neighborhoods/people
- Notification to neighbors – increases communication and coordination
- Sprinklers in field – mitigate sensory irritation
- Fumigant site monitoring – increases awareness of site conditions

**A Completed Alternatives and Mitigations form must be submitted with the Soil Fumigation Plan**

RMP Name: \_\_\_\_\_

RMP Number: \_\_\_\_\_

Date: \_\_\_\_\_

Restricted Material(s): \_\_\_\_\_

Example Product(s): \_\_\_\_\_

“Feasible Alternatives” means other chemical or non-chemical procedures which can reasonably accomplish the same pest control function with comparable effectiveness and reliability, considering economic, environmental, social, and technological factors and timelines of control.

“Feasible Mitigation Measure” means a condition attached to the approval of an activity which, if implemented, would substantially reduce any adverse impact, considering economic, environmental, social, and technological factors and timelines of control.

Date & Version #	Ranch Name & Site Number	Sensitive Sites Nearby (School, Home, etc.)	Alternative(s)	Mitigation(s)

**A Completed Alternatives and Mitigations form must be submitted with the Soil Fumigation Plan**

Date & Version #	Ranch Name & Site Number	Sensitive Sites Nearby (School, Home, etc.)	Alternative(s)	Mitigation(s)

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