<u>Specimen Label</u>

RESTRICTED USE PESTICIDE

Due to acute toxicity and carcinogenicity.

For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.



Soil Fungicide and Nematicide

[®]Trademark of Dow AgroSciences LLC

A multi-purpose liquid fumigant for preplant treatment of soil to control plant parasitic nematodes, symphylans and to help manage certain soil borne diseases in cropland.

Not for use in greenhouses or other enclosed areas and not for use in drip or other chemigation applications.

Active Ingredients:

1,3-dichloropropene	63.4%
chloropicrin	
Other Ingredients	1.9%
Total	

This product weighs 11.2 lbs./gal. @ 68°F (20°C). Contains 7.10 lb of 1,3-dichloropropene and 3.89 lb of chloropicrin per gallon.

First Aid

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further 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 in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 for emergency medical treatment information.

Note to physician: Because rapid absorption may occur through lungs if product is aspirated and cause systemic effects, the decision to induce vomiting or not should be made by a physician. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Chloropicrin is a volatile liquid that is the active ingredient in tear gas. As a gas it is a powerful lachrymator. Early symptoms of overexposure are lachrymation, respiratory distress and vomiting. Pulmonary edema may develop later. Treatment is symptomatic.

Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-302 Hazardous Liquid and Vapor

DANGER

- May cause lung, liver, and kidney damage and respiratory system irritation upon prolonged contact.
- The use of this product may be hazardous to your health. This product contains 1,3-dichloropropene, which has been determined to cause tumors in laboratory animals. Risks can be reduced by exactly following directions for use, precautionary statements, and by wearing the personal protective equipment specified in this labeling.
- Fatal if inhaled or swallowed. Poisonous liquid and vapor. Corrosive. Liquid causes skin burns and irreversible eye damage. Do not breathe vapor or gas. Do not get in eyes, on skin or on clothing. Chloropicrin is readily identifiable by smell. Exposures to very low concentrations of vapor will cause irritation of eyes, nose and throat. Continued exposure after irritation occurs, or exposure to higher concentration may cause painful irritation or temporary blindness.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for Category H on the chemical resistance category selection chart. PPE constructed of saranex, neoprene, and chlorinated polyethylene provide short-term contact or splash protection against liquid in this product. Longer-term protection is provided by PPE constructed of viton, Teflon, and EVAL barrier laminates (for example, responder suits manufactured by Lifeguard or silvershield gloves manufactured by North). Where chemicalresistant materials are required, leather, canvas, or cotton materials offer no protection from this product and must not be worn as the sole article of protection when contact with this product is possible. Where coveralls are required, they must be

loose-fitting and constructed of woven fabrics (e.g., tight knit cotton or cotton/polyester), non-woven fabrics (e.g., tyvek or sontara), or fabrics containing microporous Teflon.

When performing tasks with NO potential for contact with liquid fumigant, all handlers (including applicators) must wear:

Long-sleeved shirt and long pants, and Shoes and socks

When performing tasks with potential for contact with liquid fumigant, all handlers (including applicators) must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- · Chemical-resistant apron,
- Protective eyewear (do NOT wear goggles), and
 Chemical-resistant footwear with socks.

The PPE required when handling liquid fumigant must be immediately available and must be worn if the handler is to perform any handling activity with a potential for liquid fumigant contact.

 All handlers (including applicators) must wear a half-face air-purifying respirator (except when handlers are in enclosed cabs or applying the fumigant with equipment that disrupts the chisel trace and seals the soil at the same time e.g., Yetter applicator) equipped with an organic vapor (OV, NIOSH approval number prefix TC-23C) cartridge and a particulate pre-filter (Type N, R, P or HE, NIOSH approval number prefix TC-84A)

If sensory irritation (tearing, burning of the eyes or nose) is experienced and handlers remain in the application block_or buffer zone, handlers must wear at a minimum either:

- A NIOSH certified full facepiece air-purifying respirator equipped with an organic vapor (OV, NIOSH approval number prefix TC-23C) cartridge and a particulate a prefilter (Type N, R, P, or HE, NIOSH approval number prefix TC-84A), or
- A gas mask with a canister approved for organic vapor (NIOSH approval number prefix TC-14G).

See Directions for Use, Air Monitoring Requirements, Respiratory Protection and Stop Work Triggers, number 1, *Handlers Wearing Half-Face Air Purifying Respirators* for when an air-purifying respirator (full facepiece or gas mask) is required. IMPORTANT: A self-contained breathing apparatus (SCBA) is not permitted for routine handler tasks. If responding to an emergency when corrective action is needed to reduce air concentrations to acceptable levels, wear an SCBA. Escape-only SCBA respirators must not be used by handlers for responding to emergencies. In addition wear PPE required for potential contact with liquid fumigant.

- 2. Handlers using enclosed cabs are not required to wear respiratory protection (not applicable in California) provided that the cab has been maintained according to the manufacturer's written operating instructions and there is written documentation that the ventilation system has been maintained according to the manufacturer's instructions and the enclosed cab is in conformance with the following requirements:
 - The enclosed cab must maintain a positive pressure of 6 mm H₂O.
 - The enclosed cab must have a minimum air intake flow of 43 m³/hour.
 - The enclosed cab must be equipped with activated charcoal filter media containing no less than 1000 grams of activated charcoal.
 - The filter must be changed after no more than 50 hours of application time.

See Directions for Use, Air Monitoring Requirements, Respiratory Protection and Stop Work Triggers, number 2, *Handlers in Enclosed Cabs (Not Applicable in California)* for stop work procedures.

 Handlers applying the fumigant with equipment that disrupts the chisel trace and seals the soil with one implement, e.g., a Yetter applicator (not applicable in California) are not required to wear respiratory protection unless sensory irritation is experienced.

If sensory irritation (tearing, burning of the eyes or nose) is experienced and handlers remain in the application block or buffer zone, handlers must wear at a minimum either:

- A NIOSH certified full facepiece air-purifying respirator equipped with an organic vapor (OV, NIOSH approval prefix TC-23C) cartridge and a particulate pre-filter (Type N, R, P, or HE, NIOSH approval number prefix TC-84A), or
- A gas mask with a canister approved for organic vapor (NIOSH approval number prefix TC-14G).

See Directions for Use, Air Monitoring Requirements, Respiratory Protection and Stop Work Triggers, number 3, Handlers Applying the Fumigant with Equipment that Disrupts the Chisel Trace and Seals the Soil With One Implement, e.g., a Yetter Applicator (not applicable in California), for when respiratory protection is required.

4. Handlers exposed to greater than 1.5 ppm of chloropicrin (e.g., an emergency when corrective action is needed to reduce air concentrations to acceptable levels), and handlers exposed to this product in poorly ventilated areas, must wear at a minimum:

- Chemical-resistant suit,
- · Chemical-resistant gloves, such as barier laminate (EVAL) or viton,
- Chemical-resistant footwear with socks, and
- Chemical-resistant headgear.
- A self-contained breathing apparatus (SCBA) with NIOSH approval number prefix TC-13F. See further respirator requirements in the *Protection for Handlers* section on this label.

User Safety Requirements

1. Never fumigate alone: It is imperative to always have an assistant and proper protective equipment in case of accidents.

- 2. Driver's Responsibilities: Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to safely work with the tractor and driver while fumigating.
- 3. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.
- Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Contact with Mouth: Never siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
- 6. Heat Illness Avoidance: Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, fans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove 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.

Environmental Hazards

This pesticide is toxic to mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

- Chloropicrin has certain properties and characteristics in common with chemicals that have been detected in groundwater (chloropicrin is highly soluble in water and has low adsorption to soil).
- For untarped applications of chloropicrin, leaching and runoff may occur if there is heavy rainfall after soil fumigation.

Groundwater advisory: 1,3-dichloropropene is known to move through soil and under certain conditions has the potential to reach groundwater as a result of agricultural use. Application in areas where soils are permeable and groundwater is near the surface could result in groundwater contamination.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame. Incompatible with oxidizing agents.

Directions for Use

Restricted Use Pesticide

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 handlers may be in the application block from the start of the application until the entry restricted period ends, and in the buffer zone during the buffer zone period. 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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). No instructions elsewhere on the labeling relieve users from complying with the requirements of WPS. For the entry restricted period and notification requirements, see the Entry Restricted Period and Notification section of this label.

PPE for Entry During the Restricted Period: PPE for entry that is permitted by this labeling is listed in the *Personal Protective Equipment (PPE)* section of this labeling.

Storage and Disposal

Do not contaminate water, food or feed by storage and disposal. **Pesticide Storage:** Store in tightly-closed original container away from dwellings. Prolonged exposure of container to direct sunlight must be avoided. Do not allow contamination of seeds, plants, fertilizers, or other pesticide chemicals.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide and rinsates 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.

Refillable containers 5 gallons or larger:

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

Storage and Disposal (Cont.)

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 by other procedures allowed by state and local authorities.

Nonrefillable containers 5 gallons or larger:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

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 or 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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Terms Used in This Labeling

Soil Fumigant Training Program: Certified applicator training that provides information on (1) how to correctly apply the fumigant, including how to comply with new label requirements; (2) how to protect handlers and bystanders; (3) how to determine buffer zone distances; (4) how to complete an FMP and the post-application summary; (5) how to determine when weather and other site-specific factors are not favorable for fumigant application; (6) how to comply with required GAPs and how to document compliance with GAPs in the FMP; and (7) how to develop and implement emergency response plans.

Fumigant Safe Handling Information: Information that must be provided annually to handlers that must include the following: (1) what fumigants are and how they work, (2) safe application and handling of soil fumigants, (3) air monitoring and respiratory protection requirements for handlers, (4) early signs and symptoms of exposure, (5) appropriate steps to take to mitigate exposures, (6) what to do in case of an emergency, and (7) how to report incidents.

Application Block: Area 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.

Application Rate: The ratio of fumigant mass applied compared to the soil surface area (e.g., pounds of product per acre). The application rate is expressed on this labeling in terms of either the "treated area application rate" or the "broadcast equivalent application rate." The "treated area application rate" relates to only the rate of fumigant applied to the portion of the field that is fumigated (e.g., rate within the bed or strips). The "broadcast equivalent application rates to the rate of fumigant applied within the entire perimeter of the application block. For bedded and strip applications, the "broadcast equivalent application rate" must be calculated to determine the buffer zone distance required by this labeling.

Start of the Application: The time at which the fumigant is first delivered/ dispensed into the soil in the application block.

Application is Complete: The time at which the fumigant has stopped being delivered/dispensed into the soil and the soil has been sealed; drip lines have been purged (if applicable).

Entry Restricted Period: This period begins at the start of the application and expires depending on the application method and if tarps are used when the tarps are perforated and removed. Entry into the application block during this period is only allowed for appropriately PPE-equipped handlers performing handling tasks. See the *Entry Restricted Period and Notification* section for additional information.

Buffer Zone: An area established around the perimeter of each application block. The buffer zone must extend outward from the edge of the application block perimeter equally in all directions.

Buffer Zone Period: Begins at the start of the application and lasts for a minimum of 48 hours after the application is complete. Non-handlers must be excluded from the buffer zone during the buffer zone period. Difficult to Evacuate Sites: Pre-K to Grade 12 schools, state licensed daycare centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons.

Owner: Any person who has a present possessory interest (fee, leasehold, rental, or other) in an agricultural establishment. A person who has both leased such agricultural establishment to another person and granted that same person the right and full authority to manage and govern the use of such agricultural establishment is not an owner. See definition of "owner" in WPS (40 CFR § 170.3).

Roadway: Portion of a street or highway improved, designed or ordinarily used for vehicular travel, exclusive of the sidewalk or shoulder even if such sidewalk or shoulder is used by persons riding bicycles. In the event a highway includes two or more separated roadways, the term *roadway* shall refer to any such roadway separately.

Representative Handling Task: For air monitoring, the locations and handler activities sampled must represent each handler's exposure occurring within the application block. For example, for an application consisting of a seven-handler crew (1 tractor driver, 1 tractor co-pilot, 4 shovelers, and 1 certified applicator supervising), two breathing zone samples could be collected: one sample for the tractor co-pilot and one sample for a downwind shoveler. Results of previous sampling may indicate which tasks and locations are worst case and therefore representative of all handlers.

Application Restrictions

The use of this product is restricted to the methods described in this label. Soil fumigation using Telone C-35 must be conducted only according to directions and conditions of use.

Chemigation: Do not apply Telone C-35 through any type of irrigation system.

Do not formulate and/or tank mix this product into other end-use agricultural products.

Not for use in greenhouses or other enclosed areas.

An application block treated with Telone C-35 must not be within 100 feet of an occupied structure. No person shall be present at this structure at any time during the seven consecutive day period after the application is complete. EXCEPTION: This restriction does not apply to use on soils that have not experienced a 1,3-dichloropropene treatment in the previous two years, for example, on soils to be planted with fruit trees, nut and nursery crops, perennial vines, hops, mint, or pineapple.

Telone C-35 shall not be applied to soil more frequently than once each year.

Do not apply within 100 feet of any well used for potable water. Do not apply this product within 100 feet from the edge of karst topographical features. Karst topography is identified from landscape features that result from the dissolving activity of water in carbonate rock formations (limestone, dolomite and marble). Surface features that are associated with karst topography include sinkholes, caverns, springs, and sinking or disappearing streams. In North Dakota, South Dakota, Wisconsin, Minnesota, New York, Maine, New Hampshire, Vermont, Massachusetts, Utah, and Montana: Where groundwater aquifers exist at a depth of 50 feet or less from the surface, do not apply this product where soils are Hydrologic Group A.

For Applications in California Only:

Use the buffer zone distances specified by the California Department of Pesticide Regulation, which are found at the website listed below. Additional California Department of Pesticide Regulation requirements must also be followed including:

- Additional tarp requirements
- · Application time restrictions
- Additional buffer zone restrictions for overlapping buffer zones and credits
- Additional emergency preparedness and response requirements

The certified applicator must follow all California buffer zone requirements and California restrictions that are specified at: www.cdpr.ca.gov/chloropicrin.htm.

Use Restrictions for Certain Florida Counties

For application of this product in Brevard, Charlotte, Citrus, Collier, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Indian River, Lake, Lee, Manatee, Martin, Monroe, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Sarasota, Seminole, St. Lucie, Sumter, and Volusia counties, applicators must have labeling for FIFRA Section 24(c) Special Local Need (SLN) FL-990005 in their possession and comply with stated requirements. Use of Telone C-35 is prohibited in Broward and Dade counties.

Use Restrictions for Certain New York Counties

This product is prohibited from sale, use or distribution in Nassau and Suffolk counties.

Certified Applicator Training

Any certified applicator supervising a soil fumigant application must have successfully completed one of the soil fumigant training programs listed on the following EPA web site http://www.epa.gov/fumiganttraining for the active ingredient(s) in this product. The training must be completed in the time frames listed on the web site. The FMP must document the date and location where the soil fumigant training program was completed.

Product Information

Before using this product, carefully read and follow all label precautions and directions.

Telone C-35 is a multi-purpose liquid fumigant for preplant treatment of cropland soil that can be used as part of a nematode and disease management program involving crop rotation, planting resistant varieties, sanitation, and other cultural practices designed to reduce nematode and disease pressure.

Telone C-35 may be applied as a preplant soil treatment as part of a management program to aid in reducing the damaging effects of certain soil borne diseases [soil rot (soil pox) of sweet potatoes; granville (bacterial) wilt, black root rot, black shank diseases of tobacco; verticillium wilt of strawberries, cole crops and mint, pink root of onions, and fusarium crown and root rot of tomatoes]. This is not a complete list of crops and soil borne diseases. Consult your crop advisor for recommendations on specific soil borne diseases.

Telone C-35 may be applied as a preplant soil treatment as part of a management program to control and aid in reducing the damaging effects of certain soil pests; plant parasitic nematodes (root-knot, root lesion, citrus, cyst formers, golden, sugarbeet, soybean, burrowing, lance, reniform, ring, spiral, sting, pin, stubby root, dagger, and certain others), symphylans (garden centipedes) and wireworms.

Before fumigation, soil sampling for the type and number of pests present is recommended. In fields where pre-treatment soil samples indicate the presence of high population levels of nematodes, a successful fumigation cannot be expected to eradicate entire populations. Therefore, post-treatment (mid-season and/or preharvest) sampling is recommended to determine the need for additional pest management practices.

Consult State Agricultural Experiment Station or Extension Service specialists for information on other practices such as post-harvest destruction of crop residues, weed control or other cultural practices, and use of nematode resistant crop varieties that may aid in reducing crop losses from soil borne pests.

Use Precautions

Recontamination Prevention

Telone C-35 will help manage certain soil borne pests that are present in the soil treatment zone at time of fumigation. It will not control pests that are introduced into soil after fumigation. To avoid reinfestation of treated soil do not use irrigation water, transplants, seed pieces, or equipment that could carry soil borne pests from infested land. Avoid contamination from moving infested soil onto treated beds through cultivation, movement of soil from below the treated zone, dumping contaminated soil in treated fields and soil contamination from equipment or crop remains. Clean equipment carefully before entering treated fields. Cultural practices which provide post-harvest destruction of crop residues and weeds prior to fumigation and practices which prevent weed infestation following fumigation and prior to planting will help prevent recontamination.

Equipment Clean-Up

Because Telone C-35 is corrosive under certain conditions, flush all application equipment with fuel oil, kerosene or a similar type of petroleum solvent immediately after use. Fill pumps and meters with new motor oil or a 50% motor oil/fuel oil mixture before storing. **Do not use water**. Dispose of rinsate by incorporation into field just treated or by other approved means. Never introduce rinsate or unused Telone C-35 into surface or underground water supplies.

Fertility Interactions

Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when high rates of fertilizer and fumigant are applied to soils that are either cold, wet, acidic, or high in organic matter. To avoid injury to certain crops including red beets, carrots, corn, radishes, cole crops, legumes (beans), lettuce, onions, and sugarbeets, fertilize when possible as indicated by soil tests made after fumigation. To avoid animonia injury or nitrate starvation (or both) to crops grown on high organic soils, do not use fertilizers containing ammonium salts.

When using high rates of Telone C-35 as required by certain state nursery regulations, liming of highly acid soils before fumigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as citrus seedlings, *Cornus* sp., *Crataegus* sp., spruce, and vegetable crops such as callflower have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect,

additional phosphate fertilizer (foliar applied) is recommended where experience indicates a deficiency may occur.

Handlers

The following activities are prohibited from being performed by anyone other than persons who have been appropriately trained and equipped as handlers in accordance with the requirements in WPS (40 CFR Part 170):

- · Monitoring fumigant air concentrations;
- Cleaning up fumigant spills (this does not include emergency personnel not associated with the application);
- Handling or disposing of fumigant containers;
- Cleaning, handling, adjusting, or repairing the parts of application equipment that may contain fumigant residues; and
- Performing any handling tasks as defined by the WPS(40 CFR Part 170).

The following activities are prohibited from being performed in the application block from the start of the application until the entry restricted period ends and in the buffer zone during the buffer zone period by anyone other than persons who have been appropriately trained and equipped as handlers in accordance with the requirements in WPS (40 CFR Part 170). (NOTE: Persons repairing and monitoring tarps are considered handlers for the duration listed below.) Prohibited activities (except for trained and equipped handlers) include:

- Participating in the application as supervisors, loaders, drivers, tractor co-pilots, shovelers, cross ditchers, or as other direct application participants;
- Installing, repairing, operating or removing irrigation equipment;
- Performing scouting, crop advising, or monitoring tasks;
- Installing, perforating (cutting, punching, slicing, poking), or removing tarps; and
- Repairing or monitoring tarps until 14 days after application is complete if tarps are not perforated and removed during those 14 days.

NOTE: See *Tarp Perforation and/or Removal* section on this labeling for requirements about when tarps are allowed to be perforated.

Handlers do not include local, state, or federal officials performing inspection, sampling, or other similar official duties.

Protection for Handlers

Supervision of Handlers

For all applications from the start of the application until the application is complete, a certified applicator must be at the application block in the line of site of the application and must directly supervise all persons performing handling activities.

For handling activities that take place after the application is complete until the entry restricted period expires, the certified applicator is not required to be on site but must have communicated in a manner that can be understood by the site owner and handlers responsible for carrying out those activities the information necessary to comply with the label and procedures described in the FMP (e.g., emergency response plans and procedures).

IMPORTANT: This requirement does not override the requirements in the Worker Protection Standard for Agricultural Pesticides for information exchange between operators of agricultural establishments and commercial pesticide applicators.

The certified applicator must provide **Fumigant Safe Handling Information** to each handler or confirm that within the past 12 months, each handler has received **Fumigant Safe Handling Information** in a manner that he/she can understand. **Fumigant Safe Handling Information** will be provided where this product is purchased or at http://www.epa.gov/fumiganttraining.

For all handling tasks at least two handlers must be present. Exception: After the application is complete, only one trained handler is required to perform fumigant site monitoring tasks outside of the buffer zone.

Exclusion of Non-Handlers From the Application Block and Buffer Zone

The certified applicator supervising the application and the owner of the establishment where the application is taking place must make sure that all persons who are not trained and PPE-equipped and who are not performing one of the handling tasks as stated in this label are:

- excluded from the application block during the entry restricted period, and
- excluded from the buffer zone during the buffer zone period (see buffer zone exemption for transit on roadways in *Buffer Zone Requirements* section).

Local, state, or federal officials performing inspection, sampling, or other similar official duties are not excluded from the application block or the buffer zone by this labeling. The certified applicator supervising the application and the owner of the establishment where the application is taking place are not authorized to, or responsible for, excluding those officials from the application block or the buffer zone.

Providing, Cleaning, and Maintaining PPE

The employer of any handler (as stated in this label) must make sure that all handlers are provided and correctly wear the required PPE. The PPE must be cleaned and maintained as required by the Worker Protection Standard for Agricultural Pesticides.

Air-Purifying Respirator Availability

The employer of any handler must confirm that an air-purifying respirator and appropriate cartridges/canisters of the type specified in the *PPE* section of this labeling are immediately available for each handler who will wear one (see *Respirator Fit Testing Medical Qualification, and Training* section for additional requirements).

Exception: Air-purifying respirators do not need to be made available for handlers performing fumigant site monitoring tasks outside of the buffer zone.

Cartridges or canisters must be replaced when odor or sensory irritation from this product becomes apparent during use, if the measured concentration of chloropicrin is greater than or equal to 1.5 ppm, or after 8 hours of cumulative use, whichever occurs first.

Respirator Fit Testing, Medical Qualification and Training

Using a program that conforms to OSHA's requirements (see 29 CFR Part 1910.134), employers must verify that any handler who uses a respirator is:

- Fit tested and fit checked,
- · Trained, and
- Examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (such as a heart condition) that would be problematic for respirator use. If concerns are identified, then additional evaluations, such as a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. Handlers must be reexamined by a qualified medical practitioner if their health status or respirator style or use conditions change.
- Upon request by local/state/federal/tribal enforcement personnel, employers must provide documentation demonstrating how they have complied with these requirements.

Air Monitoring Requirements, Respiratory Protection, and Stop Work Triggers

Air Monitoring Requirements

- When air-purifying respirators (full facepiece or gas mask) are worn, air monitoring samples for chloropicrin must be collected at least every 2 hours in the breathing zone of a handler performing a representative handling task.
- When breathing zone samples are required, they must be taken outside respiratory protection equipment and within a 10-inch radius of the handler's nose and mouth.
- When using devices to monitor air concentration levels, a direct read detection device, such as an electronic device or a colorimetric device (e.g., Matheson-Kitagawa, Draëger, or Sensidyne) must be used. The devices must have sensitivity of at least 0.15 ppm for chloropicrin. Persons using direct read detection devices must follow the manufacturer's directions.

1. Handlers Wearing Half-Face Air-Purifying Respirators

(Handlers are required to start work in half-face air-purifying respirators.) The *Air Monitoring Requirements* section above must be followed.

- If at any time any handler experiences sensory irritation (tearing, burning
 - of the eyes or nose) while wearing a half-face respirator then either: o (OPTION 1) An air-purifying respirator (full facepiece or gas mask) must be worn by all handlers who remain in the application block or surrounding buffer zone, or
 - o (OPTION 2) Operations must cease and handlers not wearing air-purifying respirators (full facepiece or gas mask) must leave the application block and surrounding buffer zone.

For OPTION 1 [all handlers are wearing air-purifying respirators (full facepiece or gas mask)]

- a) Handlers can **resume** operations wearing half-face air-purifying respirators if all of the following conditions exist:
 - Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm, and
 Handlers do not experience sensory irritation.
 - During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handlers taking the air samples. Samples must be taken where the sensory irritation was first experienced.

- b) If at any time (1) a handler experiences sensory irritation when wearing an air-purifying respirator (full facepiece or gas mask), or
 (2) a chloropicrin air sample is greater than or equal to 1.5 ppm, then all handler activities must cease and handlers must be removed from the application block and surrounding buffer zone.
 - i. Handlers can **resume** operations wearing half-face air-purifying respirators if all of the following conditions exist:
 - Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm,
 - · Handlers do not experience sensory irritation, and
 - Cartridges/canisters have been changed.
 - During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced or where sample(s) were greater than or equal to 1.5 ppm.

For OPTION 2 (Operations ceased)

a) Handlers can **resume** operations wearing half-face air-purifying respirators if all of the following conditions exist:

- Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm, and
- o Handlers do not experience sensory irritation.
- During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handlers taking the air samples. Samples must be taken where the sensory irritation was first experienced.

2. Handlers in Enclosed Cabs (Not Applicable in California)

[Handlers in enclosed cabs are not required to start work in half-face airpurifying respirators if the conditions in the *Personal Protective Equipment* (*PPE*) section are met.]

The Air Monitoring Requirements section above must be followed.

- If at any time a handler experiences any sensory irritation (tearing, burning of the eyes or nose) while in the enclosed cab, operations must cease and handlers must leave the application block and buffer zone.
- Operations may resume in the enclosed cab provided that:
- o Two consecutive chloropicrin samples taken in the breathing zone of the handlers at the handling site at least 15 minutes apart must be less than 1.5 ppm,
- o Handlers do not experience sensory irritation, and
- o The filter has been changed.
- o During the collection of air samples, an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced.
- 3. Handlers Applying the Fumigant with Equipment That Disrupts the Chisel Trace and Seals the Soil with One Implement, e.g. a Yetter Applicator (Not Applicable in California)

(Handlers applying the fumigant with equipment that disrupts the chisel trace and seals the soil with one implement, e.g., a Yetter applicator, are not required to start work in half-face air-purifying respirators.)

The Air Monitoring Requirements section above must be followed.

- If at any time any handler experiences sensory irritation (tearing, burning of the eyes or nose) then either:
 - o (OPTION 1) An air-purifying respirator (full facepiece or gas mask) must be worn by all handlers who remain in the application block or surrounding buffer zone, or
 - o (OPTION 2) Operations must cease and handlers not wearing an air-purifying respirator (full facepiece or gas mask) must leave the application block and surrounding buffer zone.

For OPTION 1 [all handlers are wearing air-purifying respirators (full facepeice or gas mask)]

- a) Handlers can remove air-purifying respirators (full facepiece or gas mask) if all of the following conditions exist:
 - Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm, and
 Handlers do not experience sensory irritation.
 - During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced.
- b) If at any time: (1) a handler experiences sensory irritation when wearing an air-purifying respirator (full facepiece or gas mask) or (2) a chloropicrin breathing zone sample is greater than or equal to 1.5 ppm, then all handler activities must cease and handlers must be removed from the application block and the surrounding buffer zone.

- i. Handlers can **resume** operations **without** wearing an air-purifying respirator (full facepiece or gas mask) if all of the following conditions exist:
 - Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm, and
 - Handlers do not experience sensory irritation.
 - During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced or where sample(s) were greater than or equal to 1.5 ppm.
- ii. Handlers can **resume** operations **with** wearing an air-purifying respirator (full facepiece or gas mask) if all of the following conditions exist:
 - Two chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 1.5 ppm,
 - Handlers do not experience sensory irritation, and
 - Cartridges/canisters have been changed.
 - During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced or where sample(s) were greater than or equal to 1.5 ppm.

For OPTION 2 (Operations ceased)

- a) Handlers can resume operations if all of the following conditions exist:
 - Two consecutive chloropicrin breathing zone samples taken at the handling site at least 15 minutes apart must be less than 0.15 ppm, and
 - Handlers do not experience sensory irritation.
 - o During the collection of air samples an air-purifying respirator (full facepiece or gas mask) must be worn by the handler taking the air samples. Samples must be taken where the sensory irritation was first experienced.

Tarp Perforation and/or Removal

IMPORTANT: Persons perforating, repairing, removing, and/or monitoring tarps are defined, within certain time limitations, as handlers (see *Handlers* section) and they must be provided the PPE and other protections for handlers as required on this labeling and in the Worker Protection Standard for Agricultural Pesticides.

- Tarps must not be perforated until a minimum of 5 days (120 hours) have elapsed after the application is complete unless a weather condition exists which necessitates early tarp perforation or removal. (See Early Tarp Removal for Broadcast Applications Only and Early Tarp Perforation During Flood Prevention Activities for Bedded Applications Only requirements.)
- If tarps are perforated within 14 days after the application is complete, tarp removal must not begin until at least 2 hours after tarp perforation is complete.
- If tarps are perforated but not removed within 14 days after the application is complete, planting or transplanting must not begin until at least 48 hours after the tarp perforation is complete.
- If tarps are not perforated or removed within 14 days after the application is complete, planting or transplanting may take place while the tarps are being perforated.
- Each tarp panel used for broadcast application must be perforated.
- Tarps may be perforated manually ONLY for the following situations:
 At the beginning of each row when a coulter blade (or other device which performs similarly) is used on a motorized vehicle such as an ATV.
- o In fields that are 1 acre or less.
- o During flood prevention activities.
- In all other instances, tarps must be perforated (cut, punched, poked, or sliced) only by mechanical methods.
- Tarp perforation for broadcast applications must be completed before noon.
- For broadcast fumigations, tarps must not be perforated if rainfall is expected within 12 hours.

Early Tarp Removal for Broadcast Applications Only

 Tarps may be removed before the required 5 days (120 hours) if adverse weather conditions have compromised the integrity of the tarp, provided that the compromised tarp poses a safety hazard. Adverse weather includes high wind, hail, or storms that blow tarps off the field and create a hazard, e.g., tarps blowing into power lines and onto roads. A compromised tarp is a tarp that due to an adverse weather condition is no longer performing its intended function and is creating a hazard.

Early Tarp Perforation During Flood Prevention Activities for Bedded Applications Only

Tarp perforation is allowed before the 5 days (120 hours) have elapsed.
Tarps must be immediately retucked and packed after soil removal.

Entry Restricted Period and Notification

Entry Restricted Period

Entry into the application block (including early entry that would otherwise be permitted under the WPS) by any person – other than a correctly trained and PPE-equipped handler who is performing a handling task listed on this labelling – is PROHIBITED from the start of the application until:

- 5 days (120 hours) after the application is complete for untarped applications, or
- 5 days (120 hours) after the application is complete if tarps are not perforated and removed for at least 14 days after the application is complete, or.
- 48 hours after tarp perforation is complete if tarps will be perforated within 14 days after the application is complete and will not removed for at least 14 days after the application is complete, or
- tarp removal is completed if tarps are both perforated and removed less than 14 days after the application is complete.

NOTES:

- See Tarp Perforation and/or Removal section on this labeling for requirements about when tarps are allowed to be perforated.
- If early tarp removal occurs for a broadcast application the entry restricted period is a minimum of 5 days after the application is complete.
- When listing application information for soil fumigant applications to comply with part 170.122 of the WPS, list the entry restricted period time frame in place of the REI.

Notification

Notify workers of the application by warning them orally and by posting Fumigant Treated Area signs. The Fumigant Treated Area signs must bear the skull and crossbones symbol and state:

- "DANGER/PELIGRO"
- "Area under fumigation, DO NOT ENTER/NO ENTRE"
- "1,3-dichloropropene and chloropicrin fumigants in use"
- The date and time of fumigation
- The date and time entry prohibition period is over
- Telone C-35
- Name, address, and telephone number of the certified applicator in charge of the fumigation.

Post the Fumigant Treated Area sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, text size, and sign size (40 CFR §170.120).

Post Furnigant Treated Area signs at all entrances to the application block no sooner than 24 hours prior to application.

Fumigant Treated Area signs must remain posted for no less than the duration of the entry restricted period.

Fumigant Treated Area signs must be removed within 3 days after the end of the entry restricted period.

Mandatory Good Agricultural Practices (GAPs)

The following GAPs must be followed during all fumigant applications.

Application Timing

Apply Telone C-35 at any time of the year when soil conditions permit. Conditions that allow rapid diffusion of the fumigant as a gas through the soil normally give the best results. Because Telone C-35 does not provide residual control of soil pests, use it as a preplant application before planting each crop.

Tarps (when tarps are used in applications of Telone C-35)

- A written tarp plan must be developed and included in the FMP.
- Once a tarp is perforated, the application is no longer considered tarped.
- Tarps must be installed immediately after the fumigant is applied to the soil.

Weather Conditions

 To determine if unfavorable weather conditions exist or are predicted (see Identifying Unfavorable Weather Conditions section) and whether an application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:

o on the day of, but prior to the start of, the application, and

- o on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in effect for the area in which the application is planned, during the application, or the 48 hours after the application is complete.

- Do not apply if light wind conditions (<2 mph) are forecast to persist for more than 18 consecutive hours from the time the application starts until 48 hours after the application is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping fumigant vapors near the ground. The resulting air mass can move off site in unpredictable directions. These conditions typically exist within an hour prior to sunset and continue past surrise and may persist as late as noontime. Unfavorable conditions are common on nights with limited cloud cover and light to no wind and their presence can be indicated by ground fog or smog and can also be identified by smoke from a ground source that flattens out below a ceiling layer and moves laterally in a concentrated cloud.

Telone C-35 Bedded and Broadcast Shank Applications - Additional GAPs

In addition to the GAPs required for all soil fumigation applications with Telone C-35, the following GAPs apply for injection applications.

Soil Preparation:

- Soil must be in good tilth and free of large clods. Large clods can prevent effective soil sealing and reduce effectiveness of the application. If subsurface soil compaction layers (hardpans) are present within the intended fumigation treatment zone, a deep tillage to fracture these layers must occur prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation. Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.
- Trash pulled by the shanks to the ends of the field must be covered with tarp, or soil, depending on the application method before making the turn for the next pass.

Soil Temperature:

- The minimum soil temperature at the depth of injection is 40°F.
- The maximum soil temperature at the depth of injection must not exceed 90°F at the beginning of the application.
 - If air temperatures have been above 100°F in any of the three days prior to the start of the application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Sealing:

- Broadcast Untarped Applications: Use a disc or similar equipment to uniformly mix the soil to at least a depth of 4 to 6 inches to eliminate the chisel or plow traces. Following elimination of the chisel trace, the soil surface must be compacted with a cultipacker, ring roller, and roller in combination with tillage equipment. When using equipment similar to the Yetter applicator (chisel trace disruption and soil sealing are done with one implement), additional tillage and compaction are not required.
- Bedded Applications: Preformed beds must be sealed by disruption of the chisel trace using press sealers, bed shapers, cultipackers, or by reshaping (e.g., relisting, lifting and replacing) the beds immediately following injection. Beds formed at the time of application must be sealed by disrupting the chisel trace using press sealers or bed shapers. When bedding, prebedders such as ripper hippers, hillers, or other prebedders may be used to disrupt the chisel trace and seal the soil. When using equipment similar to the Yetter applicator (chisel trace disruption and soil sealing are done with one implement), additional tillage and compaction are not required. Beds may be formed following the Yetter-type applicator in a normal interval consistent to area production practices.
- **Tarped Applications:** The use of a tarp does not eliminate the need to minimize chisel traces prior to application of the tarp, such as by using a Nobel plow or other injection shank that disrupts the chisel traces. When bedding, prebedders such as ripper hippers, hillers, or other prebedders may be used to disrupt the chisel trace and seal the soil. When using equipment similar to the Yetter applicator (chisel trace disruption and soil sealing are done with one implement), additional tillage and compaction are not required. Beds may be formed following the Yetter-type applicator in a normal interval consistent to area production practices.

Soil Moisture:

- The soil must be moist 9 inches below the surface. The amount of moisture needed in this zone will vary according to soil type. Surface soil generally dries rapidly and must not be considered in this determination.
- Soil moisture must be determined using one of the following methods: o the USDA Feel and Appearance Method for testing (see below), or o an instrument, such as a tensiometer.
- Available water capacity must be equal to or greater than 50% for shank applications. If there is less than 50% available water capacity 9 inches below the surface, the soil moisture must be adjusted. If irrigation is not available and there is adequate soil moisture below 9 inches, soil moisture can be adjusted by discing or plowing before the start of the application. To conserve existing soil moisture, pretreatment irrigation or pretreatment tillage should be done as close to the start of the application as possible.
- Measure soil moisture at a depth of 9 inches at either end of the field, no more than 48 hours prior to the start of the application.

The USDA Feel and Appearance Method for estimating soil moisture as appropriate for the soil texture:

- For **coarse** textured soils (fine sand and loamy fine sand), the soil is moist enough (50 to 75% available water capacity) to form a weak ball with loose and clustered sand grains on fingers, darkened color, moderate water staining on fingers, will not ribbon.
- For moderately coarse textured soils (sandy loam and fine sandy loam), the soil is moist enough (50 to 75% available water capacity), to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), the soil is moist enough (50 to 75% available water capacity), to form a ball, very light staining on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), the soil is moist enough (50 to 75% available water capacity), to form a smooth ball with defined finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. Whenever possible, the field should be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service agent, soil conservationist, or pest control advisor (agriculture consultant) should be consulted for assistance.

Application Depth:

- Tarped Broadcast Applications: The injection point must be a minimum of 8 inches from the nearest final soil/air interface.
- Tarped and Untarped Bedded Applications: The injection point must be a minimum of 12 inches from the nearest final soil/air interface.
- Untarped Broadcast Applications: The injection point must be a minimum of 12 inches from the nearest final soil/air interface. When using the Nobel plow for untarped broadcast applications, the injection point must be a minimum of 15 inches from the nearest final soil/air interface.
- Untarped Broadcast Deep Applications: The injection point must be a minimum of 18 inches from the nearest final soil/air interface.

Application Methods and Equipment:

- **Broadcast Applications:** Use chisel (shank) or coulter (e.g., Yetter 30-inch Avenger), offset wing shank, Nobel (sweep) plow, or plow-sole application equipment. For best results when using chisel equipment, use ripper-type, forward-swept shanks. Nobel plow equipment is particularly useful for fall fumigation when the soil still contains some standing undecomposed plant material. Subsoiling may be necessary before application. Choose application equipment that allows the deepest application and best soil seal under existing conditions.
- o When broadcast applying Telone C-35 in areas east of the Mississippi River, leave the soil undisturbed and unplanted for at least 14 days after application. For best disease control when broadcast applying Telone C-35, use a supplemental application of chloropicrin in-bed at labeled rates, leaving the soil undisturbed for at least 7 days before applying chloropicrin. In either case, follow the most restricted soil fumigation interval guideline of both products before planting the crop. Allow all of the fumigant to dissipate completely before planting the crop. Do not plant if Telone C-35 is detected.
- o The fumigant outlet spacing varies with the type of application equipment used.

- o With chisel and coulter equipment, a fumigant shank spacing of 12 to 24 inches is recommended. Do not exceed the maximum shank and outlet spacing of 24 inches. The outlet spacing for this equipment may be up to 1 1/2 times the application depth but generally should be equal to the application depth and should not exceed the soil shattering capability of the chisels.
- o With plow-sole equipment, a 12-inch outlet spacing is recommended. Do not exceed an outlet spacing of 18 inches.
 o With Nobel (sweep) plow equipment, use an outlet spacing of 9 to
- 12 inches along the sweeps.o Broadcast application can be made in the same direction or at an angle to the direction of row planting.
- Bedded Application (for Row Spacing Greater Than 24 Inches): Use chisel equipment to treat a band of soil where the crop is to be planted, i.e., the plant row. When multiple chisels per plant row are used, space the chisels (fumigant outlets) no more than 12 inches apart.
- o When applications to plastic culture vegetables east of the Mississippi River are made at a 12-inch depth or greater prior to vegetable bed formation (e.g., Yetter prebedder or ripper bedder), a supplemental application of chloropicrin in-bed at bed formation is recommended when disease or weed control is a concern. When applications are made in-bed, enough knives/coulters should be used to ensure thorough fumigation. The knives/coulters should not be placed greater than 12 inches apart.
- o With certain deeper rooted crops such as potatoes and sugarbeets, higher flow rates may be necessary to ensure adequate treatment of the zone of soil where primary root growth occurs.
- o To prevent seed germination problems caused by improper seed-to-soil contact or improper planting depth, do not place the seed directly over the furrow left by the applicator chisel(s). When one chisel is used per plant row, place the seed about 4 inches to one side of the chisel furrow. When two chisels are used per plant row, plant the seed offset from the chisel trace.

Prevention of End Row Spillage:

- Do not apply or allow fumigant to spill onto the soil surface. For each injection line either have a check valve located as close as possible to the final injection point, or drain/purge the line of any remaining fumigant prior to lifting injection shanks from the ground.
- Do not lift injection shanks from the soil until the shut-off valve has been closed and the fumigant has been depressurized (passively drained) or purged (actively forced out via air compressor) from the system.
- The dispensing system must shut off the feed stream when chisels are raised out of the ground. Do not stop or park near any area where dribble from chisel tips has fallen.
- A flow shutoff device must be placed as close as is technically feasible to the fluid discharge point. This can be a ball, poppet, or diaphragm check valve, or full flow shutoff device such as an electric or pneumatically actuated valve.
- · Service any system immediately if continuous drip occurs.
- If mechanical check valves and orifices are used, place the check valve above the orifice. Also, isolate the check valve from upstream pressure by installing a main line shut off or bypass valve prior to the manifold.
- Pipe diameter from check valve to injection point must not exceed 1/4 inches ID National Pipe Standard (NPS). Preferably, use the smallest diameter pipe or tubing possible which achieves the required flow rate.
- Alternative end-row spillage devices or methods, such as, but not limited to, micro-bore restricted flow tubing or line purge systems may be used if they provide equal or superior control versus check valves.

Calibration, Set Up, Repair and Maintenance for Application Rigs: Compatible Materials

- Copper, stainless steel, stainless steel braided hose, steel, brass, Kynar, Kalrez, Chemraz, Santoprene, Hasteloy, Monel, polypropylene, polyethylene, nylon, Teflon, rigid PVC and viton (F/G best).
- Do not expose rigid PVC to undiluted Telone C-35 or more than 1500 ppm of Telone C-35 in the diluted form.

The following materials must **not** be used with Telone C-35:

- Do not use containers, pumps, or other transfer equipment made of aluminum, magnesium, zinc (including galvanized), cadmium, tin and alloys, or vinyl as under certain conditions Telone C-35 may be severely corrosive to such materials. Unless referring to plasticized vinyl, vinyl and PVC are the same. PVC is listed above under Compatible Materials.
- Buna-N, neoprene and fiberglass have the potential to disintegrate and must not be used with Telone C-35.
- All rigs must include a filter to remove any particulates from the fumigant and for pressurized systems a check valve to prevent backflow of the fumigant into the pressurizing cylinder or the compressed air system.
- Rigs must include a flowmeter or a constant pressure system with orifice plates to ensure the proper amount of fumigant is applied.
- To prevent the backflow of fumigant into the compressed gas cylinder (e.g., nitrogen, other inert gas or compressed air), if used, applicators must:

- Ensure that positive pressure is maintained in the compressed gas cylinder at not less than 200 psi during the entire time it is connected to the application rig if a compressed gas cylinder is used. (This is not required for a compressed air system that is part of the application rig because if the compressor system fails, the application rig will not be operable.)
- Ensure that application rigs are equipped with properly functioning check valves between the compressed gas cylinder or compressed air system and the fumigant cylinder. The check valve is best placed on the outlet side of the pressure regulator and is oriented to only allow compressed gas to flow out of the cylinder or compressed air out of the compressed air system.
- o A pressure relief valve must be installed between the regulator and the check valve to ensure a regulator failure does not overpressurize the fumigant cylinder.
- Always pressurize the system with compressed gas or by use of a compressed air system before opening the fumigant cylinder valve.
- Before using a fumigation rig for the first time, or when preparing it for use after storage, the operator must check the following items carefully:
 - o Check the filter and clean or replace the filter element as required.
 - o Check all tubes and chisels to make sure they are free of debris and obstructions.
 - o Check and clean the orifice plates and screen checks, if installed.
 - o Pressurize the system with compressed gas or compressed air, and check all fittings, valves, and connections for leaks using soap
- solution.
 Install the fumigant cylinder and connect and secure all tubing. Slowly open the compressed gas or compressed air valve and increase the pressure to the desired level. Slowly open the fumigant cylinder valve, always watching for leaks.
- When the application is complete, close the fumigant cylinder valve and blow residual fumigant out of the fumigant lines into the soil using compressed gas or compressed air. If the rig uses a centrifugal pump instead of compressed gas to inject fumigant into the soil, you may clear residual fumigant from the fumigant lines using an application wand connected to the system's low point via a drain hose. Place the wand in the soil until all residual fumigant has drained from the system. The want and drain hose must be free of dirt to allow proper drainage. At the end of the application season, disconnect all fumigant cylinders from the application rig. At the end of the season, seal all tubing openings with tape to prevent entry of insects and dirt.

Application equipment must be calibrated and all control systems must be working properly. Proper calibration is essential for application equipment to deliver the correct amount of fumigant uniformly to the soil. Refer to the manufacturer's instructions on how to calibrate your equipment. Usually the equipment manufacturer, fumigant dealer, or Cooperative Extension service can provide assistance.

Planting Interval:

- Leave the soil undisturbed and unplanted for at least 7 days after the application of Telone C-35 is complete. A longer undisturbed interval is required if the soil becomes cold or wet, and for deep-rooted tree, shrub and vine planting sites.
- After fumigation to prevent phytotoxicity, allow the fumigant to dissipate completely before planting the crop. Dissipation is usually complete when Telone C-35 can no longer be detected at the application depth. Under optimum soil conditions for dissipation, a period of 1 week for each 10 gallons per treated acre is generally required for complete dissipation. If tarps that qualify for either a 40% or 60% buffer zone credit are used, a longer dissipation period may be needed. Rapidly germinating seed (i.e., lettuce or radish) and/or seed or transplants to be grown may be used as a bioassay to determine if Telone C-35 is present in the soil at concentrations sufficient to cause plant injury.
- To hasten dissipation especially if heavy rains or low temperatures occur during the treatment period, till the soil to the depth of fumigant application. Use a knife-like chisel without turning the soil to reduce the possibility of recontaminating the treated soil. Dissipation is usually complete when Telone C-35 is no longer evident at the application depth. Seed may be used as a bioassay to determine if Telone C-35 is present in the soil at concentrations sufficient to cause plant injury. Do not plant if Telone C-35 is detected.

Bulk and Non-Bulk Containers:

- Telone C-35 must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with liquid Telone C-35.
- All hoses, piping, and tanks used in connection with Telone C-35 shall be of the type appropriate for use under the pressure and vacuum conditions to be encountered.
- External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.

- Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of Telone C-35 when the transfer is stopped and hose is removed or disconnected. A dry coupler that will minimize pesticide leakage must be installed at the disconnect point.
- The pressure in hoses used to move Telone C-35 beyond a pump must not exceed the manufacturer's maximum pressure specification.

Note: In-tank cleaning of bulk tanks must be performed only by persons who have been specifically trained for this activity. Refer to OSHA 29 CFR Part 1910.146.

Telone C-35 Tree Replant Applications Using Handheld Equipment - Additional GAPs

This application method is used when Telone C-35 is applied to individual tree sites in an existing orchard where shank applications are not possible. In addition to the GAPs required for all soil fumigation applications with Telone C-35, the following GAPs apply for tree replant applications with Telone C-35.

Site Preparation:

- Remove the tree stump and primary root system in each individual tree site with a backhoe or other similar equipment, for example, an auger.
- The backhoe site must be dug in the approximate dimensions of 10 x 10 x 10 feet.
- The hole must be backfilled with soil before application.

Application Depth:

- The fumigant must be injected at least 18 inches into the soil.
- For sites where no restrictive soil layers are present, Telone C-35 can be applied to a depth of 5 feet using an injection auger. For tree replant sites in the western U.S., apply Telone C-35 at a single point in the center of each planting site at a depth of 5 feet below the original soil surface, or into at least three points per planting site, at a depth of 3 feet below the original soil surface.

System Flush:

• Before removing the application wand from the soil the wand must be cleared using nitrogen or compressed air.

Soil Sealing:

 After the wand is cleared and removed from the soil, the injection hole must be either covered with soil and tamped or the soil must be compacted over the injection hole.

Planting Interval:

 To prevent phytotoxicity, ensure that the chemical has dissipated completely before planting. Dissipation is slower in cold, wet soils. Prepare and treat planting sites in the fall and plant in the spring. Do not place in groundwater.

			d Application Rates allons/Acre)
Crops	Soil Type	Untarped Shank Injection	Tarped Shank or Untarped Deep (18" Minimum) Shank Injection
vegetable crops	mineral muck or peat		3 to 20.5 ² 33 ³ to 36
potato ^{1, 2} and onion ¹	mineral muck or peat	2	21.4 to 33 ¹ 36
field crops ⁴	mineral muck or peat	1	3 to 20.5 ² 26
fruit and nut crops ^{5, 6,} including strawberries	mineral, muck, or peat	39 to 45	39 to 50
nursery crops	mineral, muck, or peat		60.5 to 79
mint	mineral, muck, or peat		33

Note: For control of symphylans (garden centipedes) or suppression of wireworms, consult the Soil Insects section below for more specific directions and application rates.

¹Potatoes and onions: To control root knot nematode and suppress wireworms in mineral soils, apply Telone C-35 at the rate of 29 gpa. To control northern root knot nematode in mineral soils, apply Telone C-35 at the rate of 21.4 to 24.4 gpa. To control stubby root nematode in mineral soils, apply Telone C-35 at the rate of 33 gpa. For best results, apply the fumigant consistently at least 18 inches below the final soil/air interface.

Preharvest soil sampling and preharvest tuber sampling is recommended to detect developing nematode populations or early tuber infection.

There are a range of soil conditions under which Telone C-35 can be applied. Within that range, product performance will improve as the soil condition moves toward optimum. Using Telone C-35 under soil conditions outside the range will yield less than satisfactory performance.

²Potatoes: Before fumigation, soil sampling for the type and number of pests present is recommended and can help to determine the need for additional treatment with a contact nematicide. Preharvest tuber sampling for nematodes also is recommended. For best timing and sampling methods, consult a local extension service agent, pest control advisor, or Dow AgroSciences representative for assistance. If the nematode population is high enough to damage the crop, the potatoes can be harvested early. Funigation cannot be expected to eradicate the entire pest population. Therefore, post-treatment and preplant soil sampling is recommended to determine the need for additional pest population control or other management practices. Do not store potatoes with a detectable nematode infestation. Row treatment is not recommended for potatoes in irrigated areas of western and northwestern states. Do not use plow-sole application.

Using Telone C-35 does not guarantee pest-free potatoes at harvest. Using Telone C-35 according to use directions will control only the nematode populations present within the fumigated zone at the time of fumigation. The fumigated zone can vary depending upon a number of factors such as fumigant rate, application methods used, depth of application, soil moisture, soil type, soil temperature and soil tilth (including soil compaction and soil porosity). Telone C-35 will not control or prevent reinfestation subsequent to treatment. Subsequent pest populations may infest the fumigated zone from irrigation water, equipment or other sources of contamination, or may invade the fumigated zone from surrounding untreated soil such as from beneath the fumigated zone or from unfumigated pockets within the fumigated zone.

Do not plow the ground in the spring in such a way that inverts the soil prior to a spring fumigation. Conduct such tillage operations in the fall to allow winter kill of residual nematode populations in the top 1 to 2 inches of the soil profile. A cover crop, such as wheat or grass, can be planted to reduce the potential for soil erosion following a fall soil fumigation and undisturbed soil interval.

³When using the coulter system (e.g., Yetter 30-inch Avenger) in moderate to heavy disease pressure, use the maximum rate of Telone C-35 followed by chloropicrin in-bed. Consult your local certified dealer for rate recommendations.

⁴For muck soils containing less than 30% organic matter use 26 gpa. **In New York:** for high organic matter soils, use a maximum of 45 gpa for shallow untarped applications and a maximum of 50 gpa for tarped and untarped deep broadcast applications. ⁵Citrus Fruits: For burrowing nematode control, inject Telone C-35 on 18-inch centers at least 12 inches deep. To protect existing trees near tree

^bCitrus Fruits: For burrowing nematode control, inject Telone C-35 on 18-inch centers at least 12 inches deep. To protect existing trees near tree planting sites within existing groves, do not apply within 5 feet of living trees. Keep the field free of plants susceptible to burrowing nematodes for 2 years before replanting to citrus.

⁶Tree Replanting Sites in the U.S. use 33 fl oz of Telone C-35.

Table 2. Bedded or Stripped Applications to Control Nematodes, Symphylans, Wireworms, and Certain Soil Borne Diseases

			d Application Rates allons/Acre)
Crops	Soil Type	Untarped Shank Injection	Tarped Shank or Untarped Deep (18" Minimum) Shank Injection
vegetable crops	mineral muck or peat		13 to 30.8 33 to 54
potato and onion	mineral muck or peat		25 to 49.5 39.5 to 54
field crops	mineral muck or peat		13 to 30.8 39
fruit and nut crops including strawberries	mineral, muck, or peat	39 to 67.5	39 to 75
nursery crops	mineral, muck, or peat		60.5 to 118.5
mint	mineral, muck, or peat		49.5

The per treated acre rate range for bedded or stripped applications (Table 2) is wider than the rates listed in Table 1 because flat fume or broadcast rates can be concentrated in the bed or strip and the width of these beds or strips can vary significantly. In no case can the total number of gallons of Telone C-35 applied on an acre exceed the volume listed in Table 1.

Control of Nematodes

Use Telone C-35 for control of nematodes and symphylans, management of soil diseases, and suppression of wireworms in soils to be planted to vegetable crops, field crops, fruit and nut crops, nursery crops and mint.

Control of Soil Insects

Symphylans (Garden Centipedes): Use Telone C-35 for treatment of soil to be planted to crops where these pests have been shown to be a

Calculating the Broadcast Equivalent Application Rate

To calculate the broadcast equivalent rate for bedded or strip applications the following information is needed:

- · gallons of product per treated acre
- strip or 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 or strip applications, the **total area treated** is the summation of the area (i.e., length x width) of each treated bed bottom or strip that is located within the application block as shown by the black areas in Figure 1 (e.g., black areas are 0.6A or 60% of the area within the application block). The area of the space between the beds/strips 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. problem. Apply the fumigant only as a broadcast treatment at the rate of 27.6 to 53.8 gpa. For rates greater than 45 gpa, application depth must be at least 18 inches. For best results, apply during late summer or early fall when the soil is warm.

Wireworms: Use Telone C-35 for treatment of soil to be planted to crops where these pests have been shown to be a problem. Apply the fumigant as a broadcast treatment at 27.6 gpa by injection at least 14 inches below the final soil surface.

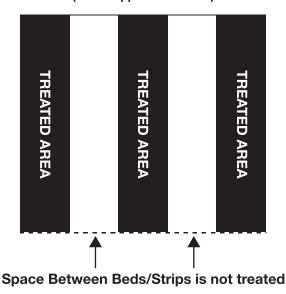


Figure 1. Bedded/Strip Application (1 acre application block)

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

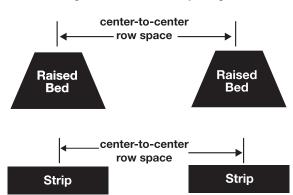
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Broadcast equivalent rate		strip or bed bottom width		gallons of product/
	= .	(inches)	x	
(gallons product/acre)		center-to-center row		treated acre
		spacing		applied in the
		(inches)		strip or bed

-The bed width must be measured from the bottom of bed.

-The center-to-center row spacing must be calculated as shown in Figure 2.

-If there are any ditches, waterways, drive rows and other areas that are not fumigated that are in the application block, multiply the above broadcast equivalent equation by (total area of strips or beds + row spacing)/(application block size). A sample calculation is provided below.

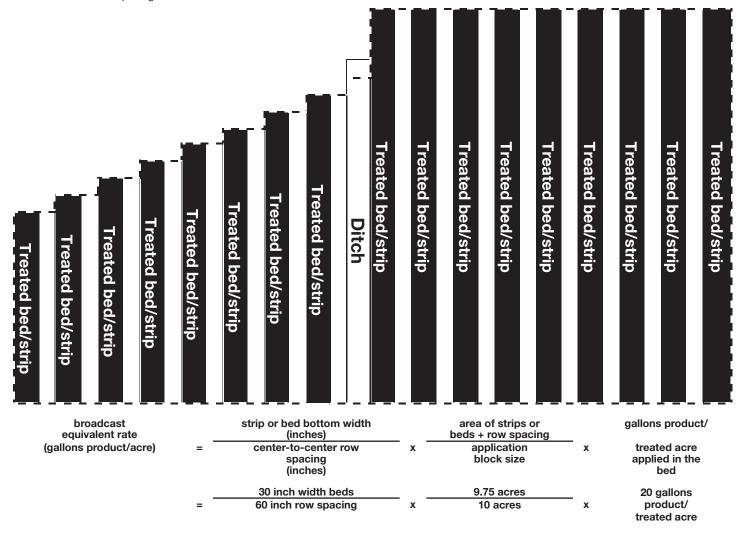
Figure 2. Center Row Spacing



Sample broadcast equivalent rate calculation

Assumptions:

- Application method is shank bedded
- Bed width is 30 inches (measured at the bottom of bed)
- Center-to-center row spacing is 60 inches
- 20 gallons of product per treated acre is applied in the beds
- Total application block size is 10 acres
- Ditch in the middle of application block is 0.25 acres
- Area of beds + row spacing is 9.75 acres



= 9.75 gallons product/acre

Buffer Zone Requirements

A buffer zone must be established for every fumigant application. The following describes the buffer zone requirements:

- The buffer zone must extend outward from the edge of the application block perimeter equally in all directions.
- All non-handlers, including field workers, residents, pedestrians, and other bystanders, must be excluded from the buffer zone during the buffer zone period except for transit (see *Buffer Zone Exemption for Transit on Roadways*).
- o Local, state, or federal officials performing inspection, sampling, or other similar official duties are not excluded from the application block or the buffer zone by this labeling. The certified applicator supervising the application and the owner of the establishment where the application is taking place are not authorized to, or responsible for, excluding those officials from the application block or the buffer zone.
- The buffer zone period begins at the start of the application and lasts for a minimum of 48 hours after the application is complete.

Buffer Zone Proximity

- Before the start of application, the certified applicator must determine whether their buffer zone will overlap any chloropicrin buffer zone(s).
- To reduce the potential for off-site movement from multiple fumigated fields, buffer zones from multiple chloropicrin application blocks must not overlap UNLESS:
- 1. A minimum of 12 hours have elapsed from the time the earlier application(s) is complete until the start of the later application, and
- 2. Furnigant Site Monitoring or Response Information for Neighbors have been implemented if there are any residences or businesses within 300 feet of any of the buffer zones.

Structures Under the Control of the Owner of the Application Block

- Buffer zones must not include buildings used for storage (e.g., sheds, barns, garages) UNLESS:
- 1. The storage buildings are not occupied during the buffer zone period, and
- 2. The storage buildings do not share a common wall with an occupied structure.

Areas Not Under the Control of the Owner of the Application Block

Buffer zones must not include residential areas (e.g., employee housing, private property), buildings (e.g., commercial, industrial), outdoor residential areas (e.g., lawns, gardens, play areas) and other areas that people may occupy, UNLESS:

- The occupants provide written agreement, prior to the start of the application, that they will voluntarily vacate the buffer zone during the entire buffer zone period, and
- 2. Reentry by occupants and other non-handlers must not occur until, o The buffer zone period has ended, and
 - o Sensory irritation is not experienced upon re-entry.

- Buffer zones must not include agricultural areas owned and/or operated by persons other than the owner of the application block, UNLESS:
 - The owner of the application block can ensure that the buffer zone will not overlap with a chloropicrin buffer zone from any other property owners, except as provided in the *Buffer Zone Proximity* section, and
 - 2. The owner of the other property provides written agreement to the applicator that they, their employees, and other persons will stay out of the buffer zone during the entire buffer zone period.
- Buffer zones must not include roadways and rights of way UNLESS:
 The area is not occupied during the buffer zone period, and
 - Entry by non-handlers is prohibited during the buffer zone period.
 Buffer Zone Exemption for Transit on Roadways
 Vehicular and bicycle traffic on public and private roadways through the buffer zone is permitted. (NOTE: Buffer zones are not permitted to include bus stops or other locations where persons wait for public transit.)
- For all other publicly owned and/or operated areas such as parks, sidewalks, permanent walking paths, playgrounds, and athletic fields, buffer zones must not include these areas UNLESS:
 - 1. The area is not occupied during the buffer zone period,
 - 2. Entry by non-handlers is prohibited during the buffer zone period, and
 - Written permission to include the public area in the buffer zone is granted by the appropriate state and/or local authorities responsible for management and operation of the area.

Certified applicators must comply with all local laws and regulations.

See the Posting section for additional requirements that may apply.

Buffer Zone Distances

Buffer zone distances must be calculated using the application rate and the size of the application block.

- Buffer zone distances must be based on look-up tables in this labeling (25 feet is the minimum distance regardless of site-specific application parameters).
- For selective tree replant fumigation in an orchard using handheld application methods, the minimum buffer zone will be 25 feet measured from the center of each injection site.
- For all other applications, Tables 3 through 8 as appropriate for the methods of application must be used to determine the minimum buffer distances. Round up the nearest rate and block size, where applicable. Applications are prohibited for rates or block sizes that exceed what is presented in the buffer zone tables.

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			42								379	424	489	546 6	643 7	739 8	804 86	868 916	6 964	1045	1125	1205 1286
			43				5 177	7 237	7 302	342	388	434	499	559 6	657 7	756 8	821 887	37 936	6 986	1068	1150	1232 1314
			44			_		1 242		_	396	443	510	571 6	671 7	772 8	839 90	906 957	7 1007	1091	1175	1259 1343
			45					5 247		357	405	453	521	583 6	686 7	789 8	857 926	26 97	7 1029	1114	1200	1286 137
			46			80 91		9 252		364	413	462	532	595 7	700 8	805 8	875 94	945 998	8 1050	1138	1225	1313 1400
		_	47	_			3 193	3 257	329	371	421	471	543 (607 7	714 8	821 8	893 964	34 1018	18 1071	1161	1250	1339 1429
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			50	62	74 8(3 204		348	394	447	500	575 (644 7	757 8	871 9	946 102	1022 1079	79 1136	1230	1325	1420 1514

Table 4. Bed Tarp Buffer Zone Distances (in Feet)

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	160	75	100	150	197	293	333	373	507	640	753	810	867	950	1033	1100	1167	1287	1343	1400	1440	1480	1523	1567	1767	1917	2067	2150	2233	2267	2300
	150	09	94	139	184	275	313	350	475	600	706	759	813	891	- 696	1031	1094	1206	1259	1313	1350	1388	1428 -	1469 -	1656	1797	1938 2	2016 2	2094 2	2125 2	2156 2
	140	50	88	130	172	257	292	327	443	560	659	709	758	831	904	963 -	1021	1126	1175	1225	1260	1295	1333	1371	1546	1677	1808	1881	1954 2	1983 2	2013 2
	130	40	81	121	160	238	271	303	412	520	612	658	704	772	840	894	948	1045	1091	1138	1170	1203	1238	1273	1435	1557	1679	1747	1815	1842	1869 2
	120	25	75	112	148	220	250	280	380	480	565	608	650	713	775	825	875	. 365	1008	1050	1080	1110	1143	1175	1325	1438	1550	1613	1675	1700	1725
	110	25	25	73	121	193	229	265	349	433	520	566	613	668	723	776	830	898	928	958	1000	1043	1090	1138	1250	1340	1430	1479	1528	1586	1645
	100	25	25	60	95	165	208	250	318	385	475	525	575	623	670	728	785	830	848	865	920	975	1038	1100	1175	1243	1310	1345	1380	1473	1565
	06	25	25	59	93	160	198	235	285	335	425	475	525	576	628	679	730	778	799	820	873	925	969	1013	1068	1149	1230	1255	1280	1363	1445
	80	25	25	58	90	155	188	220	253	285	375	425	475	530	585	630	675	725	750	775	825	875	900	925	960	1055	1150	1165	1180	1253	1325
	70	25	25	45	65	105	148	190	223	255	325	378	430	481	533	570	608	650	679	708	743	778	815	853	915	974	1033	1056	1080	1164	1248
ľ	60	25	25	33	40	55	108	160	193	225	275	330	385	433	480	510	540	575	608	640	660	680	730	780	870	893	915	948	980	1075	1170
	50	25	25	25	25	25	88	150	183	215	240	278	315	350	385	418	450	490	533	575	613	650	668	685	775	805	835	855	875	925	975
acres)	6	25	25	25	25	25	55	85	120	155	215	240	265	293	320	350	380	435	455	475	513	550	565	580	625	650	675	720	765	778	790
Size (a	35	25	25	25	25	25	43	60	100	140	200	225	250	268	285	318	350	400	418	435	460	485	510	535	575	600	625	645	665	708	750
Block	30	25	25	25	25	25	25	25	63	100	150	183	215	233	250	280	310	350	365	380	415	450	468	485	540	553	565	578	590	633	675
Application Block Size (acres	25	25	25	25	25	25	25	25	53	80	125	155	185	203	220	238	255	310	330	350	368	385	405	425	440	463	485	508	530	555	580
Applic	20	25	25	25	25	25	25	25	25	25	95	123	150	168	185	200	215	250	268	285	303	320	335	350	385	393	400	418	435	460	485
	15	25	25	25	25	25	25	25	25	25	45	68	90	115	140	153	165	200	213	225	243	260	273	285	315	328	340	358	375	418	460
	10	25	25	25	25	25	25	25	25	25	25	25	25	53	80	98	115	130	145	160	173	185	198	210	225	238	250	268	285	305	325
	6	25	25	25	25	25	25	25	25	25	25	25	25	46	99	79	93	104	119	135	149	163	174	185	199	211	224	239	254	274	294
	8	25	25	25	25	25	25	25	25	25	25	25	25	39	53	61	70	78	94	110	125	140	150	160	173	185	198	210	223	243	263
	2	25	25	25	25	25	25	25	25	25	25	25	25	32	39	43	48	51	68	85	101	118	126	135	146	159	171	181	191	211	231
	9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	43	60	78	95	103	110	120	133	145	153	160	180	200
-	5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	8	53	68	82	88	95	104	115	126	133	140	157	175
-	4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	36	46	59	69	74	80	88	98	107	114	120	134	150
	ო	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	32	39	49	56	59	65	72	80	88	94	100	111	125
-	2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	32	40	43	45	50	56	63	69	75	80	88	100
	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	30	30	35	40	45	50	55	60	65	75
	gal	6	9	÷	12	13	14	15	17	18	19	2	22	23	24	26	27	29	8	31	32	33	35	36	37	39	40	41	42	4	45
						(\	//10	onp	bro	su	olle	(G:	əte	<u>ย</u> เ	loit	вэi	lqq	A fi	uəlı	svir	ıb∃	ļsi	sob	eo1	В						

Buffer for Compacted Untarp Beds (beds listed/disk hilled and compacted at the time of application in one pass) is 25 feet.

	160	45	50	50	50	50	50	55	55	55	73	93	127	167	227	253	280	320	367	396	440	473	507	553	587	640	672	715	753	785	819	851	883	915	948	980	666	1018	1037	1056	1075	1094
	150	45	45	45	45	50	50	50	50	50	69	88	119	156	213	238	263	300	344	371	413	444	475	519	550	600	630	670	706	736	768	798	828	858	888	919	937	954	972	066	1008	1026
	140	40	40	40	40	45	45	45	45	45	64	82	111	146	198	222	245	280	321	347	385	414	443	484	513	560	588	625	659	687	716	744	773	801	829	858	874	891	908	924	941	958
	130	35	35	35	35	40	40	40	40	40	60	76	103	135	184	206	228	260	298	322	358	385	412	450	477	520	546	581	612	638	665	691	717	744	770	796	812	827	843	858	874	889
	120	30	30	30	30	35	35	35	35	35	55	70	95	125	170	190	210	240	275	297	330	355	380	415	440	480	504	536	565	589	614	638	662	686	711	735	749	764	778	792	806	821
	110	30	30	30	30	30	30	30	30	30	50	70	95	120	160	180	200	230	260	282	310	335	360	390	415	450	474	503	530	554	579	603	627	651	676	700	714	729	743	757	771	786
	100	25	30	30	30	30	30	30	30	30	45	65	88	115	145	165	185	215	241	262	290	315	335	364	385	415	439	465	490	514	539	563	587	611	636	660	674	689	703	717	731	746
	90	25	25	25	25	25	25	25	25	25	45	65	83	110	130	150	170	195	221	242	268	290	311	335	357	382	404	427	450	474	499	523	547	571	596	620	634	649	663	677	691	706
	80	25	25	25	25	25	25	25	25	25	43	61	79	97	115	136	158	179	201	222	244	265	286	306	327	348	369	389	410	434	459	483	507	531	556	580	594	609	623	637	651	666
	70	25	25	25	25	25	25	25	25	25	40	55	70	85	100	120	140	160	180	200	220	240	259	277	296	314	333	351	370	394	417	441	464	488	511	535	549	564	578	592	606	621
	60	25	25	25	25	25	25	25	25	25	37	49	61	73	85	104	122	141	159	178	196	215	231	248	264	281	297	314	330	353	376	399	421	444	467	490	504	519	533	547	561	576
	50	25	25	25	25	25	25	25	25	25	32	39	46	53	60	78	95	113	130	148	165	183	198	213	229	244	259	275	290	312	334	355	377	399	421	443	456	470	484	498	512	526
Acres)	40	25	25	25	25	25	25	25	25	25	30	30	31	33	35	51	68	84	101	117	134	150	164	179	193	207	221	236	250	271	291	312	333	354	374	395	409	422	436	449	463	476
Size (Acres)	35	25	25	25	25	25	25	25	25	25	25	30	30	30	30	45	59	74	89	103	118	133	147	161	175	190	204	218	233	249	265	281	297	313	329	345	359	373	387	401	415	429
Block	30	25	25	25	25	25	25	25	25	25	25	25	25	25	25	38	51	64	76	89	102	115	129	144	158	172	186	201	215	226	238	249	261	272	284	295	309	324	338	352	366	381
Application	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	36	46	57	68	62	89	100	112	124	135	147	159	171	183	194	205	217	228	240	251	263	274	286	298	310	321	333
Applic	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	34	42	51	59	68	76	98	94	104	113	122	131	141	150	161	173	184	196	207	219	230	239	249	258	267	276	286
	15	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	34	38	42	46	51	55	64	73	82	91	100	109	118	129	140	151	162	173	184	195	203	210	218	225	233	240
	10	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	34	42	51	59	68	76	85	96	106	117	128	139	149	160	166	171	177	183	189	194
	6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	32	39	46	52	59	66	73	83	93	103	113	123	133	143	149	155	161	167	173	179
	8	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35	40	46	51	56	61	70	80	89	98	107	117	126	132	139	145	151	157	164
	7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	32	35	39	42	46	49	58	99	75	83	92	100	109	116	122	129	135	142	148
	9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	30	30	32	34	35	37	45	53	61	68	76	84	92	66	106	113	119	126	133
	5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	32	99 99	46	54	61	68	75	82	89	96	104	111	118
	4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	36	4	46	52	57	63	68	73	79	84	89	95
	З	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	32	36	39	43	46	50	54	57	61	64	68	71
	2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	30	30	32	34	36	38	39	41	43	45	46	48
	٦	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	gal	6	10	1	12	13	4	15	17	18	21	33	24	26	27	29	30	31	32	33	35	36	37	39	40	41	42	44	45	46	48	49	50	51	53	54	55	57	58	59	60	62
												(∀/	pon	rod	d s	uoj	leĐ) əi	ъЯ	uo	itec	pilq	qA	ţuə	lev	inp	Ξ fa	seo	peo	Brc												

(continued)
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Distances (ir
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Table 6.

	160	1113	1150	1188	1225	1262	1299	1336	1373	1382	1390	1398	1407	1433
	150	1044 1	1079 1	1113 1	1148 1	1183 1	1218 1	1253 1	1288 1	1295 1	1303 1	1311 1	1319 1	1344 1
	140	974	1007	1039	1072	1104	1137	1169	1202	1209	1216	1224	1231	1254
	130	905	935	965	662	1025	1055	1086	1116	1123	1129	1136	1143	1165
	120	835	863	891	919	946	974	1002	1030	1036	1043	1049	1055	1075
	110	800	828	856	884	911	939	967	995	1001	1008	1014	1020	1040
	100	760	788	816	844	871	899	927	955	961	968	974	980	1000
	6	720	748	776	804	831	859	887	915	921	928	934	940	960
	80	680	708	736	764	791	819	847	875	881	888	894	006	920
	70	635	656	677	698	719	740	761	783	798	814	829	845	862
	60	590	604	619	633	647	661	676	690	715	740	765	200	803
_	50	540	551	563	574	586	597	609	620	642	664	686	708	718
Application Block Size (Acres)	6	490	499	507	516	524	533	541	550	569	588	606	625	633
k Size	35	443	453	463	474	484	494	505	515	526	538	549	560	573
1 Bloc	30	395	407	419	431	444	456	468	480	484	488	491	495	512
Icatior	25	345	355	365	375	385	395	405	415	423	430	438	445	460
Appl	20	295	303	311	319	326	334	342	350	361	373	384	395	408
	15	248	254	260	266	272	278	284	290	300	310	320	330	341
	10	200	204	209	213	217	221	226	230	239	248	256	265	273
	6	185	189	193	197	202	206	210	214	222	230	237	245	253
	ø	170	174	178	182	186	190	194	198	205	212	218	225	233
	2	155	159	163	167	170	174	178	182	188	194	199	205	212
	9	140	144	147	151	155	159	162	166	171	176	180	185	192
	2	125	129	132	3 136	139	143	146	150	154	158	161	165	172
	4	100	103	105	108	111	113	116	119	122	124	127	130	136
	ო	75	77	29	80	82	84	86	88	89	91	93	92	100
	2	50	51	52	53	54	54	55	56	57	58	59	60	64
	-	25	25	25	25	25	25	25	25	25	25	25	25	30
	gal	63	64		67	89	69	7		<u> </u>	75	. 76	77	78
	uo								Ea				Bro	

Table 7. Broadcast Untarp Buffer Distances (in Feet)

	<u>90 100 110 120 130 140 150 160</u>	85 95 105 115 125 134 144 153	175 185 200 210 228 245 263 280	214 234 255 270 293 315 338 360	253 283 310 330 358 385 413 440	335 370 405 440 477 513 550 587	405 445 485 520 563 607 650 693	470 510 550 585 634 683 731 780	540 585 630 670 726 782 838 893	610 660 710 755 818 881 944 1001	688 743 798 848 919 989		845 910 975 1035 1121 1208 1294 1380	949 1019 1089 1154 1250 1346 1443 1539	1053 1128 1203 1273 1379 1485 1591 1697	6 1156 1236 1316 1391 1507 1623 1739 1855	i 1260 1345 1430 1510 1636 1762 1888 2013	1310 1400 1490 1575 1706 1838 1969 2100	i 1360 1455 1550 1640 1777 1913 2050 2187	1410 1510 1610 1705 1847 1989 2131 2273	i 1460 1565 1670 1770 1918 2065 2213 2360	1510 1620 1730 1825 1977 2129 2281 2433	1578 1695 1810 1925 2085 2246 2406 2567	i 1645 1765 1885 2005 2172 2339 2506 2673	1706 1831 1956 2080 2253 2427 2600 2773	1768 1900 2030 2160 2340 2520 2700 2880	· 1850 1990 2130 2265 2454 2643 2831 3020	0 1910 2070 2230 2380 2578 2777 2975 3173	1943 2103 2263 2400 2600 2800 3000 3200	7 1982 2132 2285 2425 2627 2829 3031 3233	
	60 70 80	50 63 75	110 138 165	140 170 199	170 201 233	230 265 300	285 325 365	340 385 430	400 448 495	460 510 560	523 578 633	587 647 707	650 715 780	709 794 879	768 873 978	826 951 1076	885 1030 1175	938 1079 1220	991 1128 1265	1044 1177 1310	1097 1226 1355	1150 1275 1400	1165 1314 1463	1180 1353 1525	1223 1402 1581	1265 1451 1638	1308 1501 1694	1350 1550 1750	1417 1600 1783	1483 1650 1817	
(Acree)	40 50	35 43	50 80	73 107	95 133	140 185	190 238	3 240 290	343 343	330 395	380		480	523 616) 565 666	8 608 717	650 768	8 696 817	742 867	788 916	834 966	880 1015	915 1040	950 1065	994 1108	1038 1151	1081 1194	1125 1238	1150 1283	1175 1329	
Annlication Block Size (Acree)	5 30 35	25	5 25 38	3 42 57	58 76	3 90 115	0 133 161	3 175 208	3 220 253	3 265 298	307	348	3 390 435	6 423 473	9 455 510	2 488 548	5 520 585	559	0 598 670	8 637 713		715	1 750 833	0 785 868	6 811 903	1 838 938	7 864 973	3 890 1008	7 927 1038	1 963 1069	
Annlicatio	1	25	5 25 25	5 25 33	5 25 41	5 25 58	6 68 100	8 110 143	5 145 183	3 180 223	218	257	0 295 343	8 309 366	55 323 389	336 412	0 350 435	5 386 473	0 422 510	5 458 548	0 494 585	530	0 553 651	5 575 680	00 600 706	5 625 731	0 650 757	5 675 783	5 707 817	5 738 851	
	9 10 15	25 25 25			<u> </u>						98	12 132 194						264		268 292 375				<u> </u>	<u> </u>	<u> </u>	450		440 483 595	450 492 615	-
*		25	25	25	25	25	25	25	37	49	20		113	136	160	183	184 206 22	218	231	243	256	268	293	288 317 32	334	351	368	385	397	367 408 45	
	5 6	25	25	25	25	25	25	25	30	33	42	32 52 .	61	86	112	137		173	184			216	238	259	268	277	245 286 3	295		283 325 3	0,0
	3 4	25	25	25	25	25	25	25	25	25	30	30 30 3	33	52	72	92	111	119	126	134	141	149	164	179	183	186	190	194	206	154 219 2	┝
	1 2	25	25	25	25	25	25	25	25	25	25	25 30	30	34	41	47	54	56	59	61	64	99	71	. 92	78	. 62		81	85	25 90 1	
	gal	-	10	÷	12	13	14	15	17	18	19	ю (22	23	24	26	27	29	30	31	32	33	35	36	37	39	40	_	42		ŀ

Buffer zone distances cannot be greater than 1/2 mile (2,640 ft). If, after applying applicable credits, the buffer zone distances are still greater than 1/2 mile (2,640 ft), the application is prohibited.

(in Feet)	
Distances	
Zone I	
Buffer	
Untarp	
(18 Inches)	
(18	
Deep	
. Broadcast	
	L
Table 8	

	160	139	192	225	258	324	417	509	595	680	739	797	862	927	987	1047	1167	1259	1325	1391	1456	1521	1615	1680	1768	1855	1943	2044	2145	2232	2320	2365	2412	2484	2529
	150	131	180	211	242	304	391	478	558	638	693	748	808	869	925	981	1094	1180	1243	1304	1365	1426	1514	1575	1658	1739	1821	1916	2011	2093	2175	2218	2261	2329	2371
	140	122	168	197	226	284	365	446	520	595	646	698	754	811	863	916	1021	1101	1160	1217	1274	1331	1413	1470	1547	1623	1700	1789	1877	1953	2030	2070	2111	2174	2213
	130	113	156	183	210	263	339	414	483	553	600	648	700	753	802	850	948	1023	1077	1130	1183	1236	1312	1365	1437	1507	1578	1661	1743	1814	1885	1922	1960	2018	2055
	120	105	144	169	194	243	313	382	446	510	554	598	647	695	740	785	875	944	994	1043	1092	1141	1211	1260	1326	1391	1457	1533	1609	1674	1740	1774	1809	1863	1897
	110	92	129	152	174	218	285	352	411	470	519	568	617	665	710	755	845	606	959	1008	1057	1106	1171	1220	1286	1351	1417	1493	1564	1629	1695	1729	1764	1813	1847
	100	80	114	139	164	193	258	322	381	440	489	538	587	635	680	725	815	874	924	973	1022	1071	1131	1180	1246	1311	1377	1453	1519	1584	1650	1684	1719	1763	1797
	90	67	66	117	134	168	230	292	351	410	459	508	557	605	650	695	785	839	889	938	987	1036	1091	1140	1206	1271	1337	1413	1474	1539	1605	1639	1674	1713	1747
	80	55	84	66	114	143	203	262	321	380	429	478	526	575	620	665	755	804	854	903	952	1001	1051	1100	1166	1231	1297	1363	1429	1494	1560	1594	1629	1663	1697
	70	51	77	90	103	129	181	233	285	338	384	431	478	525	566	608	690	735	779	824	869	913	958	1003	1061	1120	1178	1237	1295	1354	1413	1452	1491	1530	1570
	60	48	70	82	93	115	160	205	250	295	340	385	430	475	513	550	625	665	705	745	785	825	865	905	926	1008	1059	1111	1162	1214	1265	1309	1354	1398	1442
	50	44	63	73	83	102	140	178	217	255	294	334	373	413	445	478	543	579	615	652	688	725	761	798	841	884	927	970	1014	1057	1100	1139	1179	1218	1257
(Acres)	40	41	57	65	73	88	120	152	183	215	249	283	316	350	378	405	460	493	526	559	591	624	657	690	725	760	795	830	865	006	935	696	1004	1038	1072
Size	35	38	51	58	64	78	104	130	156	183	216	249	282	315	341	368	420	450	481	511	541	572	602	633	664	695	727	758	200	821	853	886	920	953	987
Block	30	35	46	51	56	67	88	108	129	150	183	215	248	280	305	330	380	408	436	464	491	519	547	575	603	631	629	686	714	742	770	803	836	869	901
Application	25	33	40	44	48	56	71	87	102	118	148	179	209	240	263	285	330	355	379	404	429	453	478	503	527	551	575	600	624	648	673	704	735	767	798
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Buffer zone distances cannot be greater than 1/2 mile (2,640 ft). If, after applying applicable credits, the buffer zone distances are still greater than 1/2 mile (2,640 ft), the application is prohibited.

		160	2575	2621	2667	2700	2733	2767	2800	2833	2867	2900	3052	3203	3355	3505	3631	3781	3933	3991	4048	4105	4161	4219
		150	2414	2458	2500	2531	2563	2594	2625	2656	2688	2719	2861	3003	3145	3286	3404	3545	3688	3741	3795	3849	3901	3955
		140	2253	2294	2333	2363	2392	2421	2450	2479	2508	2538	2671	2802	2935	3067	3177	3309	3442	3492	3542	3592	3641	3691
		130	2092	2130	2167	2194	2221	2248	2275	2302	2329	2356		2602	2726	2848	2950	3072	3196	3242	3289	3336	3381	3428
		120	1931	1966	2000	2025	2050	2075	2100	2125	2150	2175	2289 2480	2402		2629	2723	2836	2950	2993	3036	3079	3121	3164
		110	1881	1916	1950	1975	2000	2025	2050	2075	2100	2125	2224		2421	2519	2603	2701		2843	2886	2929	2971	3014
		100	1831	1866	1900	1925	1950	1975	2000	2025	2050	2075	2159	2242	2326	2409	2483	2566	2650	2693	2736	2779	2821	2864
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		70	1609	1648	1688	1201 1409 1617 1721 1825 1875 1925 1975	1444 1659 1755 1850 1900	1064 1159 1254 1478 1701 1788 1875 1925 1975 2025	1744 1822 1900 1950 2000	1786 1855 1925 1975 2025 2075	1889	1870 1923	1387 1641 1896 1962 2029 2094 2159 2224	2002	1236 1339 1441 1694 1947 2041 2136 2231 2326 2421 2516	1721 1973 2081	1747 1999 2121 2243 2363 2483 2603	1774 2024 2160	1450 1550 1800 2050 2200 2350 2500 2650 2800	2093 2243 2393 2543 2693	1507 1607 1871 2136 2286 2436 2586 2736	2329	2371	1114 1304 1493 1593 1693 1979 2264 2414 2564 2714 2864 3014
		09	1486	1531	1575	1617	1659	1701	1744	1786	1828	_	1896	1921	1947	1973	1999	2024	2050	2093	2136	2179	2221	2264
		50	1296	1141 1336 1531	1375	1409	1444	1478	1281 1512	1307 1546	1334 1581	1615	1641	1414 1668	1694		1747	1774	1800	1479 1579 1836	1871	1636 1907	1943 2221	1979
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	Block	30	934	967	1000	1021	1043	1064	1086	1107	1129	1150	1179	1207	1236	1264	1293	1321	1350	1379	1226 1407	1436	1464	1493
(f	Application Block Size (Acres)	25	830	861	893	913	934	955	975	966	1017	1038	1057	1077	1096	1116	1136	1155	1175	1201	1226	1252	1278	1304
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Inches		4	210	219	228	238	249	260	271	282	293	304	312	320	328	337	345	353	361	366	372	377	382	387
ep (18		ო	149	154	160	170	179	189	199	208	218	228	235	243	251	259	267	275	283	287	292	296	301	306
Table 8. Broadcast Deep (18 Inches) Untarp Buffer Zone Distances (in		2	87	6	93	101	109	118	126	134	143	151	159	166	174	181	189	196	204	208	212	216	220	224
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Buffer zone distances cannot be greater than 1/2 mile (2,640 ft). If, after applying applicable credits, the buffer zone distances are still greater than 1/2 mile (2,640 ft), the application is prohibited.

Buffer Zone Credits

The buffer zone distances for Telone C-35 applications may be reduced by the percentages listed below. Credits may be added, but credits cannot exceed 80%. Also the minimum buffer zone distance is 25 feet regardless of buffer zone credits available. See www.tarpcredits.epa.gov for a list of tarps that have been tested and determined to qualify for buffer reduction credits. Only tarps listed on this website qualify for buffer reduction credits.

Reduction in Buffer Zone Distance (%)		
15	IF	potassium thiosulfate (KTS) is applied at a minimum rate of 300 lb per acre.
15	IF	1/4 to 1/2 inch of water is applied
10	IF	the organic content of the soil in the application block is >1% to 2%
20	IF	the organic content of the soil in the application block is >2% to 3%
30	IF	the organic content of the soil in the application block is >3%
10	IF	the soil temperature is measured to be 50°F or less. Record temperature measurements at the application depth or 12 inches, whichever is shallower.
10	IF	the clay content of the soil in the application block is greater than 27%.

Examples of Buffer Zone Calculations with Credits Applied

If the buffer zone is 50 feet and the application qualifies for a buffer zone credit since the soil organic content is 1.5%, then the buffer zone can be reduced by 10%, i.e., reduced by 5 feet based on the following calculation: 50 feet – (50 feet x 10%) = 45 feet.

If the buffer zone is 50 feet and the application qualifies for two buffer zone credits since the soil organic content is 1.5% and the clay content is greater than 27%, then the buffer zone can be reduced by 20% (10% organic content credit + 10% clay content credit), i.e., reduced by 10 feet based on the following calculation: 50 feet – (50 feet x 20%) = 40 feet.

Posting Fumigant Buffer Zones

- Posting of a **buffer zone** is required unless there is a physical barrier that prevents bystander access to the buffer zone.
- Buffer Zone signs must be placed along or outside the perimeter of the buffer zone, at all usual points of entry and along likely routes of approach from areas where people not under the owner's control may approach the buffer zone.
 - o Some examples of points of entry include, but are not limited to, roadways, sidewalks, paths and bike trails.
 - o Some examples of likely routes of approach include, but are not limited to, the area between a buffer zone and a roadway, or the area between a buffer zone and a housing development.
 - o When posting, the certified applicator supervising the application must ensure compliance with all local laws and regulations.
- Buffer Zone signs must meet the following criteria:
 - o The printed side of the sign must face away from the application block toward areas from which people could approach.
 - Signs must remain legible during the entire posting period and must meet the general standards outlined in the WPS for sign size, text size and legibility (see 40 CFR §170.120).
 - Signs must be posted no sooner than 24 hours prior to the start of the application and remain posted until the buffer zone period has expired.
 - o Signs must be removed within 3 days after the end of the buffer zone period.
 - Buffer Zone signs which meet the criteria above will be provided at points of sale for applicators to use. Templates may be downloaded from http://www.epa.gov/pesticides/reregistration/soil_fumigants/index.htm.
 - o The Buffer Zone signs must contain the following information:
 - The "Do Not Walk" symbol
 - DO NOT ENTER/NO ENTRE
 - Chloropicrin/1,3-dichloropropene Telone C-35 Fumigant
 - BUFFER ZONE
 - Contact information for the certified applicator in charge of the fumigation.

Exception: If multiple contiguous blocks are fumigated within a 14-day period, the entire periphery of the contiguous blocks' buffer zones may be posted. Buffer Zone signs must be posted no sooner than 24 hours prior to the start of the first application. The signs must remain posted until the last buffer zone period expires and signs must be removed within 3 days after the buffer zone period for the last block has expired.

Restrictions for Difficult to Evacuate Sites

Difficult to evacuate sites are pre-K to grade 12 schools, state licensed daycare centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons.

 No fumigant application with a buffer zone greater than 300 feet is permitted within 1/4 mile (1320 feet) of difficult to evacuate sites unless the site is not occupied by children from state-licensed day care centers, students (pre-K to grade 12), patients, or prisoners during the application and the 36-hour period following the start of the application.

 No fumigant application with a buffer zone of 300 feet or less is permitted within 1/8 mile (660 feet) of difficult to evacuate sites unless the site is not occupied by children from state-licensed day care centers, students (pre-K to grade 12), patients, or prisoners during the application and the 36-hour period following the end of the application.

Emergency Preparedness and Response Measures

If the buffer zone is 25 feet, then the *Emergency Preparedness and Response Measures* are not applicable.

Triggers for Emergency Preparedness and Response Measures The certified applicator must either follow the directions under the *Fumigant Site Monitoring* section or follow the directions under the *Response Information for Neighbors* section if:

- the buffer zone is greater than 25 feet but less than or equal to 100 feet, and there are residences or businesses within 50 feet from the outer edge of the buffer zone, or
- the buffer zone is greater than 100 feet but less than or equal to 200 feet, and there are residences or businesses within 100 feet from the outer edge of the buffer zone, or
- the buffer zone is greater than 200 feet but less than or equal to 300 feet, and there are residences or businesses within 200 feet from the outer edge of the buffer zone, or
- the buffer zone is greater than 300 feet or the buffer zones overlap, and there are residences or businesses within 300 feet from the outer edge of the buffer zone.

Fumigant Site Monitoring

NOTE: Furnigant Site Monitoring is ONLY required if the Emergency Preparedness and Response Measures are triggered AND directions from the Response Information for Neighbors section are not followed.

From the start of the application until the buffer zone period expires, a certified applicator or handler(s) under his/her supervision must:

- Monitor for sensory irritation in areas between the buffer zone outer perimeter and residences and businesses that trigger this requirement.
- Monitoring for sensory irritation must begin in the evening on the day of application and continue until the buffer zone period expires. Monitor a minimum of 8 times during the buffer zone period, including these periods:
 - o 1 hour before sunset,
 - o during the night,
 - o 1 hour after sunrise, and
 - o during daylight hours.

Implement the emergency response plan immediately if a handler monitoring experiences sensory irritation.

Handlers performing fumigant site monitoring tasks outside of the buffer zone are not required to wear an air-purifying respirator.

Response Information for Neighbors

NOTE: Response Information for Neighbors is ONLY required if the Emergency Preparedness and Response Measures are triggered AND directions from the Fumigant Site Monitoring section are not followed.

The certified applicator supervising the application must ensure that residences and businesses that trigger the requirement have been provided the response information at least 1 week before the application starts. The information provided may include application dates that range for no more than 4 weeks. If the application does not occur when specified, the information must be delivered again. Information that must be included:

- The location of the application block.
- Fumigant(s) applied including the active ingredient, name of the fumigant product(s), and the EPA Registration number.
- Contact information for the applicator and property owner.
- Time period in which the application is planned to take place (must not range more than 4 weeks).
- Early signs and symptoms of exposure to the fumigant(s) applied, what to do, and who to call if you believe you are being exposed (911 in most cases).
- How to find additional information about fumigants.

The method used to share the response information for neighbors can be accomplished through mailings, door hangers, or other methods that will effectively inform the residences and businesses within the required distance from the edge of the buffer zone.

Notice to State and Tribal Lead Agencies

If your state and/or tribal lead agency requires notice, information must be provided to the appropriate state or tribal lead agency prior to the application. Please refer to www.epa.gov/fumigantstatenotice for a list of states and tribal lead agencies that require notice and information on how to submit the information.

The information that must be provided to state and tribal lead agencies includes the following:

- Location of the application blocks,
- Fumigant(s) applied including EPA registration number,
- Applicator and property owner contact information, and
- Time period that fumigation may occur.

Emergency Response Plan

The certified applicator must include in the FMP a written emergency response plan that identifies:

- Évacuation routes,
- Locations of telephones,
- Contact information for first responders and local/state/federal/tribal personnel, and
- Emergency procedures/responsibilities (e.g., adding water to the field, repairing tarps, fixing equipment, evacuating upwind) if:
 - o there is an incident,
 - o sensory irritation is experienced outside of the buffer zone, and/or
- there are equipment/tarp/seal failure or complaints, or other о emergencies.

Site Specific Fumigant Management Plan (FMP)

Prior to the start of the application, the certified applicator supervising the application must verify that a site-specific FMP exists for each application block. In addition, an agricultural operation fumigating multiple application blocks may format the FMP in a manner whereby all of the information that is common to all the application blocks is captured once, and any information unique to a particular application block or blocks is captured in subsequent sections.

The FMP must be prepared by the certified applicator, the site owner, registrant, or other party.

The certified applicator supervising the application must verify in writing (sign and date) that the site-specific FMP(s) reflects current site conditions before the start of application.

Each site specific FMP must contain the following elements:

Certified Applicator Supervising the Application

- o Name.
- o Phone number,
- o Pesticide applicator license and/or certificate number,
- 0 Specify if commercial or private applicator,
- o Employer name,
- o Employer address, and
- Date and location of completing EPA approved soil fumigant 0 training program.
- **General Site Information**
 - o Application block location (e.g., county, township-range-section quadrant), address or global positioning system (GPS) coordinates
 - Verify if 1,3-dichloropropene has been used on this application block in the previous two years
 - o Confirm that there will be no occupied structures within 100 feet of the application block during the 7 consecutive day period after the application is complete
 - Name, address, and phone number of application block owner
 - o Map, aerial photo, or detailed sketch showing application block location
 - application block dimensions

 - buffer zone dimensions property lines
 - roadways

- · rights-of-ways
- sidewalks
- permanent walking paths
- bus stops
- wells
- karst topography nearby application blocks
- surrounding structures (occupied and non-occupied)
- locations of Buffer Zone signs, and
- · locations of difficult to evacuate sites with distances from the application block labeled.

General Application Information

- o Target application date/window,
- o Fumigant Product Name, and
- o EPA registration number.

Tarp Plan (if tarp is used)

- o Schedule for checking tarps for damage, tears, and other problems,
- Minimum size of damage that will be repaired,
- o Factors used to determine when tarp repair will be conducted,
- o Equipment/methods used to perforate tarps,
- o Target dates for perforating tarps, and
- o target dates for removing tarps.

Soil Conditions

- o Description of soil texture and moisture in application block,
- o Method used to determine soil moisture, and
- o Soil temperature measurement if air temperatures were above 100°F in any of the 3 days prior to the application.

Buffer Zones

- o Application method,
- o Injection depth,
- o Application rate from lookup table on label,
- o Application block size from lookup table on label,
- o Credits applied and measurements taken (if applicable), Tarp brand name, lot number, thickness, manufacturer, batch number, and part number
 - Potassium thiosulfate
 - Water seal
 - Organic matter content
 - Clay content
 - Soil temperature
- o Buffer zone distance, and
- o Description of areas in the buffer zone that are not under the control of the owner of the application block. If buffer zones extend onto areas not under the control of the owner, attach the written agreement and keep it with the FMP.
- Record Emergency Response Plan as described in the *Emergency* Response Plan section.

· Posting of Fumigant Treated Area and Buffer Zone

- o Person(s) who will post and remove (if different) Fumigant Treated Area and Buffer Zone signs, and o Location of Buffer Zone signs.
- Emergency Preparedness and Response Measures (if Applicable): Fumigant site monitoring (if applicable):
 When and where it will be conducted
- o Response information for neighbors (if applicable):
 - · List of residences and businesses informed,
- Name and phone number of person providing information, and Method of providing the information.
- State and/or tribal lead agency advance notification (if state and/or tribal lead agency requires notice, provide a list of contacts that were notified and date notified).
- Plan describing how communication will take place between the certified applicator supervising the application, the owner, and other on-site handlers (e.g., tarp perforators/removers, irrigators) for complying with label requirements (e.g., buffer zone location, buffer zone start and end times, timing of tarp perforation and removal, PPE).
- Name and phone number of persons contacted by the certified applicator, and
- Date contacted.

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o Applicable handler PPE including:

Chemical-resistant apron

Chemical-resistant footwear

Protective eyewear (not goggles)

- Handler (Including Certified Applicators) Information and PPE
 - o Names, addresses and phone numbers of handlers
 - o Names, addresses and phone numbers for employers of handlers

Specimen Label Revised 11-14-17

Tasks that each handler is authorized and trained to perform 0 o Date of PPE training for each handler

Long-sleeved shirts/long pants, shoes, socks

- Chemical-resistant gloves
- Chemical-resistant suit
- · Chemical-resistant headgear
- Air-purifying respirators
- o Respirator make, model, type, style, size, and cartridge/canister type
- SCBAs
 - o Respirator make, model, type, style, size
- Other PPE
- o For handlers: Confirmation of receipt of Fumigant Safe Handling Information.
- For certified applicator(s) supervising the application: Completion date and location of the soil fumigant training program listed on the following EPA web site http://www.epa.gov/fumiganttraining for the active ingredient(s) in this product.
- For handlers designated to wear respirators (air-purifying respirator or SCBA):
 - date of medical qualification to wear a respirator,
 - date of respirator training, and
 - date of fit testing for the respirator.
- Unless exempted in the Protection of Handlers section, verify that:
 handlers have the appropriate respirators and cartridges/canisters during handler activities, and
 - the employer has confirmed that the appropriate respirator and cartridges/canisters are immediately available for each handler who will wear one.
- If using an enclosed cab in lieu of wearing an air-purifying respirator, verify that the cab:
 - o Has positive pressure (6 mm H₂O Gauge).
 - o Has a minimum air intake flow of 43 m3/hour.
 - o Is equipped with activated charcoal filter-media containing no less than 1000 grams of activated charcoal.
 - o Document the application hours of the filter to confirm that the filter has been used for no more than 50 hours of application time.
 - In addition document that the ventilation system has been maintained according to manufacturer's instructions.

Air Monitoring Plan

- o If sensory irritation is experienced, indicate whether operations will cease or operations will continue with use of an air-purifying respirator
- o For monitoring the breathing zone:
 - Representative handler tasks to be monitored,
 - Monitoring equipment to be used, and
- Timing of monitoring.

Good Agricultural Practices (GAPs)

- o Identify (e.g., list, attach applicable label section) applicable mandatory GAPs.
- Pesticide Product Labels and Material Safety Data Sheets (MSDS) o Ensure that labels and MSDS are on-site and readily available for employees to review

Recordkeeping Procedures

The owner of the application block as well as the certified applicator supervising the application must keep a signed copy of the site-specific FMP for 2 years from the date of the application.

For situations where an initial FMP is developed and certain elements do not change for multiple application blocks (e.g., applicator information, certified applicator, handlers, recordkeeping procedures, emergency procedures) only elements that have changed need to be updated in the site-specific FMP provided the following:

- The certified applicator supervising the application has verified that those elements are current and applicable to the application block before it is fumigated.
- Recordkeeping requirements are followed for the entire FMP (including elements that do not change).

The certified applicator must make a copy of the FMP immediately available for viewing by handlers involved in the application. The certified applicator or the owner of the application block must provide a copy of the FMP to any local/state/federal/tribal enforcement personnel who request the FMP. In the case of an emergency, the FMP must be made immediately available when requested by local/state/federal/tribal emergency response and enforcement personnel. The certified applicator supervising the application must ensure the FMP is at the application block during all handler activities.

Within 30 days after the application is complete, the certified applicator supervising the application must complete a Post-Application Summary.

Post-Application Summary

The Post-Application Summary must contain the following elements:

- Actual date and time of the application
- Application rate
 Size of application
- Size of application block
- Weather Conditions

 Summary of the National Weather Service weather forecast during the application and the 48-hours after the application is complete including:
 - wind speed, and
 - air stagnation advisory (if applicable).
 - o Forecast must be checked on the day of, but prior to the start of the application, and on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Tarp Damage and Repair Information (if Applicable)
 - o Date of tarp damage discovery,
- o Location and size of tarp damage,
- o Description of tarp/tarp seal/tarp equipment failure, and
- o Date and time of tarp repair completion.
- Tarp Perforation/Removal Details (if Applicable)
 - o Date and time tarps were perforated,
 - o Date and time tarps were removed, and
 - o Record if tarps were perforated and/or removed early. Describe the conditions that caused early tarp perforation and/or removal.
- Complaint Details (if Applicable)
 - o Person filing complaint (e.g., on site handler, person off site),
 - o If off site person, name, address, and phone number of person filing complaint, and
 - Description of control measures or emergency procedures followed after complaint.
- Description of incidents, equipment failure, or other emergency and emergency procedures followed (if applicable).
- Air Monitoring Results
 - o When sensory irritation was experienced
 - Date, time, location, and handler task/activity where irritation was observed and
 - Resulting action (e.g., implement emergency response plan, cease operations, continue operations with appropriate air-purifying respirators).
 - o When using a direct read detection device:
 - Sample date(s), time(s), location(s), and concentration(s),
 - Handler task/activity monitored (if applicable), and
 - Resulting action (e.g., cease operations, continue operations with appropriate air-purifying respirators).
- Fumigant Treated Area and Buffer Zone Signs:
- o Dates of posting and removal.
- Any Deviations From the FMP (e.g., changes in emergency response actions, changes in handler information, changes in handlers responsible for completing emergency tasks, changes in communication between certified applicator, owner, and other handlers).

Recordkeeping Procedures

The owner of the application block, as well as the certified applicator supervising the application, must keep a signed copy of the post-application summary for two years from the date of application.

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Revisions:

- 1. Addition of Applications in California Only in the Application
- Restrictions section. 2. Addition of Applications in California Only to Table of Contents