

Application Method 7

Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications

Scope

In addition to labeling and regulations, DPR recommends the following permit conditions. These permit conditions were developed to mitigate hazards of offsite movement of methyl isothiocyanate (MITC) following applications of metam sodium, metam potassium, and dazomet. DPR risk assessment and incident reports identified excess risk to field workers and bystanders near applications of these fumigants.

DPR recommends prohibiting metam sodium and metam potassium shank applications with no post-application water treatments (see Appendix I for definition of “Post-Application Water Treatment”) made. In contrast, for applications with 1, 2, or 3 post-application water treatments, use the buffer zone tables within these recommended permit conditions. The buffer zone tables attached to this document have been developed for each product, and are arranged by the percentage of active ingredient. Additional restrictions may apply for fields located within California’s nonattainment areas.

To determine if a field is within a nonattainment area, go to www.cdpr.ca.gov and click on “A-Z Index” then “Nonattainment area maps.” Additional restrictions for nonattainment areas are listed in the volatile organic compound regulations in Title 3, California Code of Regulations (3 CCR) sections 6450 through 6450.2.

CAC discretion

1. Follow the most restrictive requirement, whether it is the label, regulations, or local CAC’s adopted permit conditions. DPR may provide specific guidance about exceptions.
 2. The CACs have the discretion to use mitigating conditions based on the local use conditions that have worked for them in the past.
 3. These recommended permit conditions are based on the fairly limited data that DPR has available. This data does not cover all environmental conditions, climates, soil types, etc.
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Emergency response plan

The county agricultural commissioner must be notified immediately if the emergency response plan is implemented.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Restrictions near Schools, Day care centers, and Preschools

1. All applications are prohibited ½ mile or less from the perimeter of a school property (see Appendix I for definition of “School”) unless the school is not scheduled to be in session during both the application and the 36-hour period following the end of the application.
 2. For applications made greater than ½ mile up to 1 mile from the perimeter of a school property unless the school is not scheduled to be in session during both the application and the 36-hour period following the end of application, several restrictions apply including:
 - A minimum of three post-application water treatments, unless it meets the requirements of CAC discretion detailed under “Post-Application Water Requirements” later in these permit conditions;
 - field monitoring every hour for 12 hours following application; and
 - applications that comply with the “Application Method Requirements” and “Emergency Response Measures: Offsite Movement Suppression Requirements” as described below.
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Application method requirements

1. The following requirements apply to all shank applications of metam sodium and metam potassium:
 - All application equipment must be inspected immediately prior to use to assure it is in good working condition.
 - All irrigation equipment that will be used for post-application water treatments must be inspected and tested prior to beginning the application to assure it is in good working condition.
 2. Application block size cannot exceed 80 acres in a 24-hour period.
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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

**Application
method
requirements**
(continued)

Table 1. Maximum Size of Application Block Treated Within 24 Hours for Shank Applications Near “Schools”

Distance to Perimeter of Nearest School* Property	Maximum Application Block Size
½ mile or less and school is scheduled to be in session	Application prohibited
Greater than ½ mile and up to 1 mile, and school is scheduled to be in session	40 acres
Greater than 1 mile, or school is not scheduled to be in session during both the application and the 36-hour period following the end of the application	80 acres

*See Appendix I for definition of “School”

Table 2. Maximum Size of Application Block Treated Within 24 Hours for Shank Applications Near “Occupied Structures” or “Bystander Areas”

Distance to Perimeter of Nearest Occupied Structure or Bystander Area*	Maximum Application Block Size
¼ mile or less	40 acres
Greater than ¼ mile	80 acres

*See Appendix I for definitions of “Occupied Structure” and “Bystander Area”

**Offsite
movement
suppression
requirements:
emergency
response
measures**

For all shank applications, the certified applicator supervising the application must verify that the operator of the property to be fumigated has the capability to respond to offsite movement of MITC. The specific capability required is shown in Tables 3 and 4. The supervising certified applicator must document that capability in the Emergency Response Plan located in the Fumigation Management Plan.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Offsite
movement
suppression
requirements:
emergency
response
measures
(continued)

**Table 3. Required Capability to Suppress Offsite Movement Near
“Schools”**

Distance to Perimeter of Nearest School* Property	Water Treatment Requirements
½ mile or less and school is scheduled to be in session	Application prohibited
Greater than ½ mile and up to 1 mile, and school is scheduled to be in session	Irrigation equipment and water available for 48 hours post-application Exception: May substitute 3-inch soil cap if: 1. Water is not available, and 2. Application is bedded or strip.

*See Appendix I for definition of “School”

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Offsite
movement
suppression
requirements:
emergency
response
measures
(continued)

**Table 4. Required Capability to Suppress Offsite Movement Near
“Occupied Structures” or “Bystander Areas”**

Distance to Perimeter of Nearest Occupied Structure or Bystander Area*	Water Treatment Requirements
1/4 mile or less	Irrigation equipment and water available for 48 hours post-application Exception: May substitute 3-inch soil cap if: 1. Water is not available, and 2. Application is bedded or strip.
Greater than 1/4 mile up to 1 mile	Irrigation equipment and water available for 24 hours post-application Exception: May substitute 3-inch soil cap if: 1. Water is not available, and 2. Application is bedded or strip.
Greater than 1 mile	Not required

*See Appendix I for definitions of “Occupied Structure” and “Bystander Area”

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Offsite movement suppression requirements: emergency response measures (continued)

1. When planning to use water to suppress offsite movement, the certified applicator supervising the application must select, and document in the Emergency Response Plan located on the Fumigation Management Plan, a combination of water quantity, irrigation rate, and duration that meets all three of the following specifications:
 - total quantity of 0.20–0.40 inches of water over the treatment site,
 - irrigation delivery rate of 0.15–0.25 inches per hour, and
 - irrigation duration of 2–3 hours.The ranges of 0.20–0.40 inches of water and 0.15–0.25 inches per hour allow the CAC to determine the amount of water required based on local conditions such as soil type and moisture content, and air and soil temperature at the time of application.
2. Follow the application site monitoring requirements under “Application Site Monitoring Requirements” detailed later in these permit conditions.
3. Whenever offsite movement of MITC is detected, cease the application (if still underway) and initiate the Emergency Response Plan indicated in the Fumigation Management Plan.
4. The county agricultural commissioner must be notified immediately if the emergency response plan is implemented.
5. Obtain authorization from the CAC prior to restarting any application that has been ceased due to a response.

Permit application

Permit applications must include a map of all “occupied structures” and “bystander areas” (see Appendix I for definitions of “Occupied Structure” and “Bystander Area”) within ½ mile of the fumigation site and all schools within 1 mile of the fumigation site.

Notice of intent

1. The Notice of Intent (NOI) is required to be submitted at least 48 hours prior to the start of fumigation.
2. In addition to information required in 3 CCR section 6434(b), the following information must be submitted with the NOI:
 - The number of application blocks to be treated and acreage of each application block.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Notice of intent (continued)

- The time (within a 12-hour window) that each application is scheduled to commence. If the application fails to commence within the 12-hour window, a new NOI is required, but another 48-hour waiting period would not be needed unless required by the CAC.
 - The method of post-application treatment to be used to suppress offsite movement, including number of post-application water treatments, if applicable.
 - The buffer zone size and duration if longer than required by the label.
 - The certified applicator's 24-hour contact telephone number.
 - Written agreement(s) required by labeling to allow the buffer zone to extend onto any areas not under the control of the owner of the application block, if applicable. (Attach these agreements to Fumigation Management Plan.)
 - Proof that sufficient water available for application, post-application water treatment, and offsite movement suppression requirements. (Attach proof to the Fumigation Management Plan.)
 - Proof of sufficient soil if soil capping can be used in lieu of water for the offsite movement suppression requirements. (Also attach to Fumigation Management Plan.)
 - Include the map required for Fumigation Management Plan in the NOI.
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Application timing

1. With the exception of the nighttime application method listed below, metam sodium and metam potassium shank applications must start no earlier than 1 hour after sunrise and must be completed in time to allow post-application water treatments to begin no later than 1 hour before sunset.
 2. Allowed nighttime application method (see specific requirements below for this application method):
 - Shank applications beginning no earlier than 1 a.m. (broadcast or bed).
 - In addition to the requirements listed above, the following specific requirements apply to metam sodium and metam potassium shank applications beginning no earlier than 1 a.m.
 - This application method is allowed year round.
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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Application timing (continued)

- Before application, thoroughly cultivate the field with a disc or spring tooth bar to remove clods.
- The application equipment must meet the following specific criteria:
 - The shanks must be set on three bars spaced 12–16 inches apart from front to back.
 - The shanks must be staggered on each tool bar to produce a final overall shank spacing of 9–11 inches.
 - Injection depth on each shank must be 3–4 inches, 6–7 inches, and 9–10 inches.
 - Anytime the shanks are lifted from the ground, nitrogen must be used to purge the system before the application bar is lifted out of the ground
- Compaction equipment must meet one of the following criteria:
 - The application tool bars must be followed by a ring roller that is at least as wide as the application tool bars, with 4-gauge wheels controlled by hydraulic cylinders to control depth and/or pressure, OR
 - The application tool bars must be followed with a coil packer that is at least as wide as the application tool bars.
- A minimum of two post-application water treatments must be applied.
- Post-application water treatment must be underway by sunrise.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Buffer zones

1. Label buffer zone credits are not allowed.
 2. Tables
 - Use the buffer zone tables on the label to determine the buffer zone distance incorporating the following restrictions:
 - i. All metam sodium shank injection applications require a minimum buffer zone of 100 feet.
 - ii. All metam potassium shank injection applications require a minimum buffer zone of 90 feet.
 - iii. Use buffer zone tables 1 through 9 as appropriate based on the product and number of post-application water treatments to determine the buffer zone distance.
 - iv. If the tables do not capture the specific acreage or application rate, round up to the nearest acre or rate.
 3. Permission for adjoining properties
 - When the buffer zone of an application block extends onto an area not under the control of the owner of the application block, a written agreement must be submitted with the NOI and attached to the Fumigation Management Plan.
 - If a written agreement is not included in the NOI, the buffer zone cannot encroach beyond the property line of such areas (residential areas, occupied structures, publicly owned parks, etc., as described on the product label).
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Application site monitoring requirements

1. General Requirements
 - Monitoring information must be recorded on the form “Monitoring During Application (Field Fumigation) DPR-ENF-223” or an equivalent form and attached to the Post-Application Summary.
 - If monitoring indicates a change that could result in offsite movement (e.g., increased or greatly decreased wind speed, change in wind direction toward occupied structures) the certified applicator supervising the application must be ready to carry out the requirements described in the Emergency Response Plan located in the Fumigation Management Plan.
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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Application site monitoring requirements (continued)

- Application site monitoring as described in this permit condition is separate from the “Fumigant Site Monitoring” option of the “Emergency Preparedness and Response Measures” specified on the label, and must be conducted for each application.
 - Whenever “Emergency Preparedness and Response Measures” are triggered, and the “Fumigant Site Monitoring” option is selected, the supervising certified applicator must ensure that the monitoring is conducted as follows:
 - Monitoring must be done at the outer edge of the buffer zone.
 - Monitoring must be done in the direction of bystanders, residences, and businesses, and in the direction that the wind is blowing.
 - Monitoring must be done in all directions on calm days (see Appendix I for definition of “Calm Day”).
 - Person monitoring must have full olfactory capabilities (e.g., not impaired by allergies or colds).
2. Pre-Application
- Monitor and document wind speed and direction, and soil and air temperature at the application site immediately prior to application.
3. During Application
- The following conditions must be monitored every hour until the application is completed, recorded on the form “Monitoring During Application (Field Fumigation) DPR-ENF-223” or an equivalent form during the application, and attached to the Post-Application Summary:
 - Wind speed and wind direction; and
 - Any unusual conditions observed at or adjacent to the application site (e.g., odor, reported symptoms exposure, equipment failure, or spill).
4. Post-application
- On the day of application, the certified applicator supervising the application must ensure that a trained handler is at the site continually from 1 hour before sunset through 1 hour after sunset, in addition to the periods required to conduct post-application monitoring. If the trained handler is an employee, he or she must have authority to initiate the Emergency Response Plan whenever needed, or must be able to immediately contact the person who has that authority.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Application site monitoring requirements
(continued)

- Post-application field monitoring shall be conducted for 12 hours following application and recorded on “Monitoring Post-Application DPR-ENF-224” or an equivalent form and attached to the Post-Application Summary. Specific monitoring requirements are shown in Tables 5 and 6:

Table 5. Frequency of Post-Application Monitoring Required Near “Schools”

Distance to Perimeter of Nearest School* Property	Monitoring Requirements
½ mile or less and school is scheduled to be in session	Application prohibited
Greater than ½ mile and up to 1 mile, and school is scheduled to be in session	Every hour

*See Appendix I for definition of “School”

Table 6. Frequency of Post-Application Monitoring Required Near “Occupied Structures” or “Bystander Areas”

Distance to Perimeter of Nearest Occupied Structure or Bystander Area*	Monitoring Requirements
¼ mile or less	Every hour
Greater than ¼ mile	Every 2 hours

*See Appendix I for definitions of “Occupied Structure” and “Bystander Area”

Each time post-application monitoring is conducted, the following conditions must be monitored and recorded:

- Wind speed and direction at the application site.
- Air temperature at the application site.
- Post-application watering information (see “Post-Application Water Treatments (Field Fumigation) form DPR-ENF-225”). Record start and stop times for water treatments, as well as total inches applied.
- Any unusual conditions observed at the application site (e.g., dry soil conditions, odor or irrigation equipment failure, or spill).

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Post-application water treatments

1. Post-application water treatments are required and must be recorded on the “Post-Application Water Treatments (Field Fumigation) DPR-ENF-225” or equivalent form and attached to the Post-Application Summary.
2. Water can be applied at any time in response to odor or illness.
3. For each post-application water treatment discussed below, the certified applicator supervising the application must ensure a combination of water quantity, irrigation rate, and duration that meets all three of the following specifications:
 - total quantity of 0.20–0.40 inches of water over the treatment site,
 - irrigation delivery rate of 0.15–0.25 inches per hour, and
 - irrigation duration of 2–3 hours.

The 0.20–0.40 inch range allows the CAC to determine the amount of water required, based on local conditions such as soil type and moisture content, and air and soil temperature at the time of application.

4. For 1 a.m. start shank, a minimum of two post-application water treatments are required.

Table 7. Post-Application Water Treatments Required for Shank Applications Near “Schools”

Distance to Perimeter of Nearest School* Property	Water Treatment Requirements
½ mile or less and school is scheduled to be in session	Application prohibited
Greater than ½ mile and up to 1 mile, and school is scheduled to be in session	Minimum of <u>3</u> water treatments (CAC discretion to reduce to <u>2</u>)
Greater than 1 mile, or school is not scheduled to be in session during both the application and the 36-hour period following the end of the application	Minimum of <u>2</u> water treatments (CAC discretion to reduce to <u>1</u>)

*See Appendix I for definition of “School”

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

Post-
application
water
treatments
(continued)

Table 8. Post-Application Water Treatments Required for Shank Applications Near “Occupied Structures” or “Bystander Areas”

Distance to Perimeter of Nearest Occupied Structure or Bystander Area*	Water Treatment Requirements
¼ mile or less	Minimum of <u>3</u> water treatments (CAC discretion to reduce to <u>2</u>)
Greater than ¼ mile	Minimum of <u>2</u> water treatments (CAC discretion to reduce to <u>1</u>)

*See Appendix I for definitions of “Occupied Structure” and “Bystander Area”

Use the following timing for whichever post-application water treatments are applied:

- Post-application water 1 (Day 1)—Apply a minimum of 0.20–0.40 inches of water to the application block, at a rate of 0.15–0.25 inches per hour, starting within 30 minutes of completion of the application.
- Post-application water 2 (Day 1)—Apply a minimum of 0.20–0.40 inches of water to the application block, at a rate of 0.15–0.25 inches per hour, on the same day of application, beginning no earlier than 1 hour before sunset and completing by midnight.
- Post-application water 3 (Day 2)—Apply a minimum of 0.20–0.40 inches of water to the application block, at a rate of 0.15–0.25 inches per hour, on the day following the application, beginning no earlier than 1 hour before sunset and completing by midnight.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

**Post-
application
water
treatments
(continued)**

1. Exceptions to Metam Sodium/Metam Potassium Post-Application Water Treatment Requirements:
 - Alternate Sealing - Post-application water treatments are not required for applications made under either of the two conditions listed below. For applications meeting one of these two conditions, the buffer zone will remain in effect for 24 hours (unless specified) after the completion of the application:
 - i. Post-application water treatment(s) are not required following soil injection (i.e., shank) applications under the following conditions:
 - a) Metam is banded using a width 14 inches or less.
 - b) The maximum application rate is 90 pounds active ingredient per acre.
 - c) The injection depth is 3-6 inches.
 - d) A soil capping method is utilized by placing a minimum of 6 inches of soil on top of the bed over the band treatment and compacted using a mechanical device (compaction roller).
 - e) Use Tables 2, 5, and 8 to determine buffer zones.
 - f) The buffer zone duration is 24 hours.
 - ii. The application block is tarped.
 - a) The tarp must remain in place for a minimum of 48 hours.
 - b) Use Tables 2, 5, and 8 to determine buffer zones.
 - c) The buffer zone remains in effect until the tarp is removed.

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Metam Sodium and Metam Potassium Field Soil Fumigation Recommended Permit Conditions for Shank Applications, Continued

**Post-
application
water
treatments
(continued)**

2. CAC Discretion

- The CAC has the option to eliminate the third post-application water treatment requirement for application blocks $\frac{1}{4}$ mile or less from an occupied structure or bystander area based on an evaluation of the soil type and moisture content, knowledge of local conditions, and effective offsite movement control measures previously used, provided that the application block is greater than $\frac{1}{2}$ mile to 1 mile from the perimeter of a school property (unless the school is not scheduled to be in session during both the application and the 36-hour period following the end of the application). Use the buffer zones for two post-application water treatments if the third post-application water treatment is eliminated.
 - The CAC has the option to eliminate the second post-application water treatment requirement (except for 1 a.m. start) for application blocks greater than $\frac{1}{4}$ mile from an occupied structure, or bystander area based on an evaluation of the soil type and moisture content, knowledge of local conditions, and effective offsite movement control measures previously used, provided that the application block is greater than 1 mile from the perimeter of a school property (unless the school is not scheduled to be in session during both the application and the 36-hour period following the end of the application). Use buffer zones for one post-application water treatment if the second post-application water treatment is eliminated.
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**Buffer Zone Table 1: AMVAC Metam, Metam Sodium, and Vapam (32.7% metam sodium)
Buffer Zone Values for Shank Applications with **Three** Post-Application Water Treatments**

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
≤24	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	150	175	175	213	213	250	250
25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	175	200	200	238	238	275	275
27	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	206	206	238	238	274	274	311	311
28	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	200	238	238	275	275	311	311	348	348
30	100	100	100	100	100	100	100	100	100	100	100	125	150	175	200	225	269	269	313	313	348	348	384	384
31	100	100	100	100	100	100	100	100	100	100	100	150	175	200	225	250	300	300	350	350	385	385	420	420
33	100	100	100	100	100	100	100	100	100	100	125	175	206	238	263	288	338	338	388	388	426	426	465	465
35	100	100	100	100	100	100	100	100	100	100	150	200	238	275	300	325	375	375	425	425	468	468	510	510
36	100	100	100	100	100	100	100	100	113	125	175	225	269	313	338	363	413	413	463	463	509	509	555	555
38	100	100	100	100	100	100	105	120	135	150	200	250	300	350	375	400	450	450	500	500	550	550	600	600
39	100	100	100	100	100	103	118	133	148	163	213	263	313	363	388	413	475	475	538	538	594	594	650	650
41	100	100	100	100	100	115	130	145	160	175	225	275	325	375	400	425	500	500	575	575	638	638	700	700
42	100	100	100	100	113	128	143	158	173	188	238	288	338	388	413	438	525	525	613	613	681	681	750	750
44	100	100	100	110	125	140	155	170	185	200	250	300	350	400	425	450	550	550	650	650	725	725	800	800
46	100	100	101	116	131	146	161	176	191	206	263	313	413	425	450	488	581	581	675	675	753	753	831	831
47	100	100	108	123	138	153	168	183	198	213	275	325	425	450	475	525	613	613	700	700	781	781	863	863
49	100	100	114	129	144	159	174	189	204	219	288	338	438	475	500	563	644	644	725	725	809	809	894	894
50	100	105	120	135	150	165	180	195	210	225	300	350	400	450	525	600	675	675	750	750	838	838	925	925
52	100	108	124	139	155	170	186	201	217	232	309	361	413	464	541	619	696	696	773	773	864	864	954	954
53	100	112	128	143	159	175	191	207	223	239	319	372	425	478	558	638	717	717	797	797	890	890	983	983
55	100	115	131	148	164	180	197	213	230	246	328	383	438	492	574	656	738	738	820	820	916	916	1012	1012
57	101	118	135	152	169	186	203	219	236	253	338	394	450	506	591	675	759	759	844	844	942	942	1041	1041
58	104	121	139	156	173	191	208	225	243	260	348	405	463	520	607	694	780	780	867	867	968	968	1070	1070
60	107	125	143	160	178	196	214	232	249	267	356	416	475	534	623	713	802	802	891	891	995	995	1098	1098

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
61	110	128	146	163	183	201	219	238	256	274	366	427	488	548	640	731	823	823	914	914	1021	1021	1127	1127
63	113	131	150	168	188	206	225	244	263	281	375	438	500	563	656	750	844	844	938	938	1047	1047	1156	1156
64	115	135	154	173	192	211	231	250	269	288	384	448	513	577	673	769	865	865	961	961	1073	1073	1185	1185
66	116	138	158	177	197	217	236	256	276	295	394	459	525	591	689	788	886	886	984	984	1099	1099	1214	1214
68	121	141	161	181	202	222	242	262	282	302	403	470	538	605	705	806	907	907	1008	1008	1125	1125	1243	1243
69	124	144	165	186	206	227	248	268	289	309	413	481	550	619	722	825	928	928	1031	1031	1152	1152	1272	1272
71	127	148	169	190	211	232	253	274	295	316	422	492	563	633	738	844	949	949	1055	1055	1178	1178	1301	1301
72	129	151	173	194	216	237	259	280	302	323	431	503	575	647	755	863	970	970	1078	1078	1204	1204	1330	1330
74	132	154	176	198	220	242	264	286	308	330	441	514	588	661	771	881	991	991	1102	1102	1230	1230	1359	1359
75	135	158	180	203	225	248	270	293	315	338	450	525	600	675	788	900	1013	1013	1125	1125	1256	1256	1388	1388

**Buffer Zone Table 2: AMVAC Metam, Metam Sodium, and Vapam (32.7% metam sodium)
Buffer Zone Values for Shank Applications with Two Post-Application Water Treatments**

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
≤24	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	150	175	175	213	213	250	250
25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	175	200	200	238	238	275	275
27	100	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	206	206	238	238	274	274	311	311
28	100	100	100	100	100	100	100	100	100	100	100	100	125	150	175	200	238	238	275	275	311	311	348	348
30	100	100	100	100	100	100	100	100	100	100	100	125	150	175	200	225	269	269	313	313	348	348	384	384
31	100	100	100	100	100	100	100	100	100	100	100	150	175	200	225	250	300	300	350	350	385	385	420	420
33	100	100	100	100	100	100	100	100	100	100	125	175	206	238	263	288	338	338	388	388	426	426	465	465
35	100	100	100	100	100	100	100	100	100	100	150	200	238	275	300	325	375	375	425	425	468	468	510	510
36	100	100	100	100	100	100	100	100	113	125	175	225	269	313	338	363	413	413	463	463	509	509	555	555
38	100	100	100	100	100	100	105	120	135	150	200	250	300	350	375	400	450	450	500	500	550	550	600	600
39	100	100	100	100	100	103	118	133	148	163	213	263	313	363	388	413	475	475	538	538	594	594	650	650
41	100	100	100	100	100	115	130	145	160	175	225	275	325	375	400	425	500	500	575	575	638	638	700	700
42	100	100	100	100	113	128	143	158	173	188	238	288	338	388	413	438	525	525	613	613	681	681	750	750
44	100	100	100	110	125	140	155	170	185	200	250	300	350	400	425	450	550	550	650	650	725	725	800	800
46	100	100	101	116	131	146	161	176	191	206	263	313	413	425	450	488	581	581	675	675	753	753	831	831
47	100	100	108	123	138	153	168	183	198	213	275	325	425	450	475	525	613	613	700	700	781	781	863	863
49	100	100	114	129	144	159	174	189	204	219	288	338	438	475	500	563	644	644	725	725	809	809	894	894
50	100	105	120	135	150	165	180	195	210	225	300	350	400	450	525	600	675	675	750	750	838	838	925	925
52	100	108	124	139	155	170	186	201	217	232	309	361	413	464	541	619	696	696	773	773	864	864	954	954
53	100	112	128	143	159	175	191	207	223	239	319	372	425	478	558	638	717	717	797	797	890	890	983	983
55	100	115	131	148	164	180	197	213	230	246	328	383	438	492	574	656	738	738	820	820	916	916	1012	1012
57	101	118	135	152	169	186	203	219	236	253	338	394	450	506	591	675	759	759	844	844	942	942	1041	1041
58	104	121	139	156	173	191	208	225	243	260	348	405	463	520	607	694	780	780	867	867	968	968	1070	1070
60	107	125	143	160	178	196	214	232	249	267	356	416	475	534	623	713	802	802	891	891	995	995	1098	1098

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
61	110	128	146	163	183	201	219	238	256	274	366	427	488	548	640	731	823	823	914	914	1021	1021	1127	1127
63	113	131	150	168	188	206	225	244	263	281	375	438	500	563	656	750	844	844	938	938	1047	1047	1156	1156
64	115	135	154	173	192	211	231	250	269	288	384	448	513	577	673	769	865	865	961	961	1073	1073	1185	1185
66	116	138	158	177	197	217	236	256	276	295	394	459	525	591	689	788	886	886	984	984	1099	1099	1214	1214
68	121	141	161	181	202	222	242	262	282	302	403	470	538	605	705	806	907	907	1008	1008	1125	1125	1243	1243
69	124	144	165	186	206	227	248	268	289	309	413	481	550	619	722	825	928	928	1031	1031	1152	1152	1272	1272
71	127	148	169	190	211	232	253	274	295	316	422	492	563	633	738	844	949	949	1055	1055	1178	1178	1301	1301
72	129	151	173	194	216	237	259	280	302	323	431	503	575	647	755	863	970	970	1078	1078	1204	1204	1330	1330
74	132	154	176	198	220	242	264	286	308	330	441	514	588	661	771	881	991	991	1102	1102	1230	1230	1359	1359
75	135	158	180	203	225	248	270	293	315	338	450	525	600	675	788	900	1013	1013	1125	1125	1256	1256	1388	1388

Buffer Zone Table 3: AMVAC Metam, Metam Sodium, and Vapam (32.7% metam sodium)
 Buffer Zone Values for Shank Applications with **One** Post-Application Water Treatments

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
≤24	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
25	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
27	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
28	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
30	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
31	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
33	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
35	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
36	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
38	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
39	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	NA
41	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	NA
42	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	NA
44	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	NA
46	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	NA
47	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	NA
49	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	NA
50	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	NA
52	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA
53	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA
55	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA
57	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA
58	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
60	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
61	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
63	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
64	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
66	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
68	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
69	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
71	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
72	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
74	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
75	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA= Not Allowed Buffer Zone Greater Than ½ Mile

Buffer Zone Table 4: Metam CLR, Metam 426, Sectagon 42, and Vapam HL (42% metam sodium)
 Buffer Zone Values for Shank Applications with **Three** Post-Application Water Treatments

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
27	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	105
28	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	120	120

gal/A	Acres treated														20	25	30	35	40	45	50	55	60	65	70	75	80
	1	2	3	4	5	6	7	8	9	10	15																
29	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	104	104	136	136			
31	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	122	122	151	151			
32	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	115	115	141	141	166	166			
33	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	103	103	136	136	159	159	182	182				
34	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	118	118	157	157	177	177	197	197				
35	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	138	138	177	177	200	200	223	223				
36	100	100	100	100	100	100	100	100	100	100	100	100	100	100	122	157	157	196	196	223	223	249	249				
38	100	100	100	100	100	100	100	100	100	100	100	100	100	100	121	144	177	177	216	216	246	246	276	276			
39	100	100	100	100	100	100	100	100	100	100	100	150	150	150	150	166	197	197	236	236	269	269	302	302			
40	100	100	100	100	100	100	100	100	100	100	100	150	150	150	163	188	217	217	256	256	292	292	328	328			
41	100	100	100	100	100	100	100	100	100	100	100	150	150	157	183	209	236	236	275	275	315	315	354	354			
42	100	100	100	100	100	100	100	100	100	100	100	150	150	173	199	225	252	252	291	291	334	334	378	378			
43	100	100	100	100	100	100	100	100	100	100	100	150	150	189	215	241	268	268	307	307	354	354	401	401			
45	100	100	100	100	100	100	100	100	100	100	100	150	165	204	230	258	283	283	322	322	374	374	425	425			
46	100	100	100	100	100	100	100	100	100	100	100	150	181	220	248	272	299	299	338	338	393	393	448	448			
47	100	100	100	100	100	100	100	100	100	100	100	157	200	236	262	288	315	315	354	354	413	413	472	472			
48	100	100	100	100	100	100	100	100	100	100	108	200	204	243	271	299	335	335	374	374	433	433	492	492			
49	100	100	100	100	100	100	100	100	100	100	118	200	210	249	280	310	354	354	393	393	453	453	512	512			
50	100	100	100	100	100	100	100	100	100	100	128	200	217	256	289	321	374	374	413	413	472	472	532	532			
52	100	100	100	100	100	100	100	100	100	100	137	200	223	262	297	332	394	394	433	433	492	492	551	551			
53	100	100	100	100	100	100	100	100	100	100	147	200	230	269	306	343	414	414	453	483	512	512	571	571			
54	100	100	100	100	100	100	100	100	100	100	157	200	236	275	315	354	433	433	472	472	532	532	591	591			
55	100	100	100	100	100	100	100	100	100	110	167	204	243	294	324	365	452	452	491	491	552	552	611	611			
56	100	100	100	100	100	100	100	100	100	102	122	177	211	249	290	333	378	472	472	511	511	572	572	631	631		

Buffer Zone Table 5: Metam CLR, Metam 426, Sectagon 42, and Vapam HL (42% metam sodium)
Buffer Zone Values for Shank Applications with Two Post-Application Water Treatments

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
27	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	105
28	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	120	120

gal/A	Acres treated																								
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
29	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	104	104	136	136	
31	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	122	122	151	151	
32	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	115	115	141	141	166	166	
33	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	103	103	136	136	159	159	182	182	
34	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	118	118	157	157	177	177	197	197	
35	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	138	138	177	177	200	200	223	223		
36	100	100	100	100	100	100	100	100	100	100	100	100	100	100	122	157	157	196	196	223	223	249	249		
38	100	100	100	100	100	100	100	100	100	100	100	100	100	100	121	144	177	177	216	216	246	246	276	276	
39	100	100	100	100	100	100	100	100	100	100	100	150	200	200	200	200	200	200	236	236	269	269	302	302	
40	100	100	100	100	100	100	100	100	100	100	100	150	200	200	200	200	217	217	256	256	292	292	328	328	
41	100	100	100	100	100	100	100	100	100	100	100	150	200	200	200	209	236	236	275	275	315	315	354	354	
42	100	100	100	100	100	100	100	100	100	100	100	150	200	200	200	225	252	252	291	291	334	334	378	378	
43	100	100	100	100	100	100	100	100	100	100	100	150	200	250	250	250	300	300	307	307	354	354	401	401	
45	100	100	100	100	100	100	100	100	100	100	100	150	200	250	250	250	300	300	300	322	322	374	374	425	425
46	100	100	100	100	100	100	100	100	100	100	100	150	200	250	250	250	300	300	300	338	338	393	393	448	448
47	100	100	100	100	100	100	100	100	100	100	100	150	200	250	250	262	300	315	315	354	354	413	413	472	472
48	100	100	100	100	100	100	100	100	100	100	100	200	250	350	350	350	400	400	400	400	400	433	433	492	492
49	100	100	100	100	100	100	100	100	100	100	100	200	250	350	350	350	400	400	400	400	400	453	453	512	512
50	100	100	100	100	100	100	100	100	100	100	100	200	250	350	350	350	400	400	400	413	413	472	472	532	532
52	100	100	100	100	100	100	100	100	100	100	100	200	250	350	350	350	400	400	400	433	433	492	492	551	551
53	100	100	100	100	100	100	100	100	100	100	100	200	300	400	400	400	500	500	500	500	500	512	512	571	571
54	100	100	100	100	100	100	100	100	100	100	100	200	300	400	400	400	500	500	500	500	500	532	532	591	591
55	100	100	100	100	100	100	100	100	100	100	110	200	300	400	400	400	500	500	500	500	500	552	552	611	611
56	100	100	100	100	100	100	100	100	102	122	200	300	400	400	400	400	500	500	500	511	511	572	572	631	631

Buffer Zone Table 6: Metam CLR, Metam 426, Sectagon 42, and Vapam HL (42% metam sodium)
 Buffer Zone Values for Shank Applications with **One** Post-Application Water Treatments

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
2	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
3	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
4	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
5	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
6	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
7	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
8	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
9	100	100	100	100	100	100	100	100	100	100	100	200	200	200	200	300	500	500	500	500	500	500	500	600
11	100	100	100	100	100	200	200	200	200	200	250	400	450	450	450	600	800	800	800	800	800	800	800	900
12	100	100	100	100	100	200	200	200	200	200	250	400	450	450	450	600	800	800	800	800	800	800	800	900
13	100	100	100	100	100	200	200	200	200	200	250	400	450	450	450	600	800	800	800	800	800	800	800	900
14	100	100	100	100	100	200	200	200	200	200	250	400	450	450	450	600	800	800	800	800	800	800	800	900
15	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
16	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
18	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
19	100	100	100	100	100	300	300	300	300	300	400	600	700	700	700	900	1100	1100	1100	1100	1100	1100	1100	1300
20	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
21	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
22	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
23	100	250	250	250	250	500	500	500	500	500	650	850	1050	1050	1050	1300	1450	1450	1450	1450	1450	1450	1450	1750
25	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
26	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200
27	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200

	Acres treated																								
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
28	100	350	350	350	350	650	650	650	650	650	850	1100	1400	1400	1400	1700	1800	1800	1800	1800	1800	1800	1800	2200	
29	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	2150	NA
31	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	2150	NA
32	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	2150	NA
33	100	500	500	500	500	850	850	850	850	850	1100	1350	1750	1750	1750	2100	2150	2150	2150	2150	2150	2150	2150	2150	NA
34	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	2500	NA
35	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	2500	NA
36	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	2500	NA
38	100	600	600	600	600	1000	1000	1000	1000	1000	1300	1600	2100	2100	2100	2500	2500	2500	2500	2500	2500	2500	2500	2500	NA
39	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
40	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
42	150	700	700	700	700	1150	1150	1150	1150	1150	1500	1850	2300	2300	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
45	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
46	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
47	200	800	800	800	800	1300	1300	1300	1300	1300	1650	2050	2500	2500	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
48	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
49	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
50	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
52	250	900	900	900	900	1450	1450	1450	1450	1450	1850	2300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
53	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
54	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
55	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
56	300	1000	1000	1000	1000	1600	1600	1600	1600	1600	2000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA= Not Allowed Buffer Zone Greater Than ½ Mile

Buffer Zone Table 7: Sectagon-K54 and K-Pam (54% metam potassium)
 Buffer Zone Values for Shank Applications with **Three** Post-Application Water Treatments

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
2	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
9	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
10	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
11	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
12	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
13	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
14	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
15	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
16	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
17	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
18	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
19	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
20	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
21	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
22	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	105	105
23	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	120	120
24	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	104	104	136	136
25	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	94	94	122	122	151	151
26	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	115	115	141	141	166	166

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
27	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	103	103	136	136	159	159	182	182
28	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	118	118	157	157	177	177	197	197
29	90	90	90	90	90	90	90	90	90	90	90	135	135	135	135	135	138	138	177	177	200	200	223	223
30	90	90	90	90	90	90	90	90	90	90	90	135	135	135	135	135	157	157	196	196	223	223	249	249
31	90	90	90	90	90	90	90	90	90	90	90	135	135	135	135	144	177	177	216	216	246	246	276	276
32	90	90	90	90	90	90	90	90	90	90	90	135	135	135	142	180	197	197	236	236	269	269	302	302
33	90	90	90	90	90	90	90	90	90	90	90	135	135	135	163	188	217	217	256	256	292	292	328	328
34	90	90	90	90	90	90	90	90	90	90	90	135	135	157	183	209	236	236	275	275	315	315	354	354
35	90	90	90	90	90	90	90	90	90	90	90	180	180	180	199	225	252	252	291	291	334	334	378	378
36	90	90	90	90	90	90	90	90	90	90	90	180	180	189	215	241	268	268	307	307	354	354	401	401
37	90	90	90	90	90	90	90	90	90	90	90	180	180	204	230	256	283	283	322	322	374	374	425	425
38	90	90	90	90	90	90	90	90	90	90	90	180	181	220	246	272	299	299	338	338	393	393	448	448
39	90	90	90	90	90	90	90	90	90	90	98	180	197	236	262	288	315	315	354	354	413	413	472	472
40	90	90	90	90	90	90	90	90	90	90	108	180	204	243	271	299	335	335	374	374	433	433	492	492
41	90	90	90	90	90	90	90	90	90	90	118	180	210	249	280	310	354	354	393	393	453	453	512	512
42	90	90	90	90	90	135	135	135	135	135	135	225	270	270	289	360	374	374	413	413	472	472	532	532
43	90	90	90	90	90	135	135	135	135	135	137	225	270	270	297	360	394	394	433	433	492	492	551	551
44	90	90	90	90	90	135	135	135	135	135	147	225	270	270	306	360	414	414	453	453	512	512	571	571
45	90	90	90	90	90	135	135	135	135	135	157	225	270	275	315	360	433	433	472	472	532	532	591	591
46	90	90	90	90	90	135	135	135	135	135	180	270	315	315	324	405	452	452	491	491	552	552	611	611
47	90	90	90	90	90	135	135	135	135	135	180	270	315	315	333	405	472	472	511	511	572	572	631	631

Buffer Zone Table 8: Sectagon-K54 and K-Pam (54% metam potassium)
 Buffer Zone Values for Shank Applications with **Two** Post-Application Water Treatments

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
2	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
3	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
4	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
5	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
6	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
7	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
8	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
9	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
10	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
11	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
12	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
13	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
14	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
15	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
16	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
17	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
18	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
19	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
20	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
21	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
22	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	105	105
23	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	120	120
24	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	104	104	136	136
25	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	94	94	122	122	151	151
26	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	115	115	141	141	166	166

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
27	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	103	103	136	136	159	159	182	182
28	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	118	118	157	157	177	177	197	197
29	90	90	90	90	90	90	90	90	90	90	135	135	180	180	180	180	180	180	180	180	200	200	223	223
30	90	90	90	90	90	90	90	90	90	90	135	135	180	180	180	180	180	180	196	196	223	223	249	249
31	90	90	90	90	90	90	90	90	90	90	135	135	180	180	180	180	180	180	216	216	246	246	276	276
32	90	90	90	90	90	90	90	90	90	90	135	180	225	225	225	270	270	270	270	270	270	270	302	302
33	90	90	90	90	90	90	90	90	90	90	135	180	225	225	225	270	270	270	270	270	292	292	328	328
34	90	90	90	90	90	90	90	90	90	90	135	180	225	225	225	270	270	270	275	275	315	315	354	354
35	90	90	90	90	90	90	90	90	90	90	180	225	315	315	315	360	360	360	360	360	360	360	378	378
36	90	90	90	90	90	90	90	90	90	90	180	225	315	315	315	360	360	360	360	360	360	360	401	401
37	90	90	90	90	90	90	90	90	90	90	180	225	315	315	315	360	360	360	360	360	374	374	425	425
38	90	90	90	90	90	90	90	90	90	90	180	225	315	315	315	360	360	360	360	360	393	393	448	448
39	90	90	90	90	90	90	90	90	90	90	180	270	360	360	360	450	450	450	450	450	450	450	472	472
40	90	90	90	90	90	90	90	90	90	90	180	270	360	360	360	450	450	450	450	450	450	450	492	492
41	90	90	90	90	90	90	90	90	90	90	180	270	360	360	360	450	450	450	450	450	453	453	512	512
42	90	90	90	90	90	135	135	135	135	135	225	315	450	450	450	540	540	540	585	585	585	585	585	585
43	90	90	90	90	90	135	135	135	135	135	225	315	450	450	450	540	540	540	585	585	585	585	585	585
44	90	90	90	90	90	135	135	135	135	135	225	315	450	450	450	540	540	540	585	585	585	585	585	585
45	90	90	90	90	90	135	135	135	135	135	225	315	450	450	450	540	540	540	585	585	585	585	591	591
46	90	90	90	90	90	180	180	180	180	180	270	360	495	495	495	630	630	630	675	675	675	675	675	675
47	90	90	90	90	90	180	180	180	180	180	270	360	495	495	495	630	630	630	675	675	675	675	675	675

Buffer Zone Table 9: Sectagon-K54 and K-Pam (54% metam potassium)
 Buffer Zone Values for Shank Applications with **One** Post-Application Water Treatments

	Acres treated																							
gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
1	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
2	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
3	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
4	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
5	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
6	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
7	90	90	90	90	90	90	90	90	90	90	90	180	180	180	180	270	450	450	450	450	450	450	450	540
8	90	90	90	90	90	180	180	180	180	180	225	360	405	405	405	540	720	720	720	720	720	720	720	810
9	90	90	90	90	90	180	180	180	180	180	225	360	405	405	405	540	720	720	720	720	720	720	720	810
10	90	90	90	90	90	180	180	180	180	180	225	360	405	405	405	540	720	720	720	720	720	720	720	810
11	90	90	90	90	90	270	270	270	270	270	360	540	630	630	630	810	990	990	990	990	990	990	990	1170
12	90	90	90	90	90	270	270	270	270	270	360	540	630	630	630	810	990	990	990	990	990	990	990	1170
13	90	90	90	90	90	270	270	270	270	270	360	540	630	630	630	810	990	990	990	990	990	990	990	1170
14	90	90	90	90	90	270	270	270	270	270	360	540	630	630	630	810	990	990	990	990	990	990	990	1170
15	90	225	225	225	225	450	450	450	450	450	585	765	945	945	945	1170	1305	1305	1305	1305	1305	1305	1305	1575
16	90	225	225	225	225	450	450	450	450	450	585	765	945	945	945	1170	1305	1305	1305	1305	1305	1305	1305	1575
17	90	225	225	225	225	450	450	450	450	450	585	765	945	945	945	1170	1305	1305	1305	1305	1305	1305	1305	1575
18	90	315	315	315	315	585	585	585	585	585	765	990	1260	1260	1260	1530	1620	1620	1620	1620	1620	1620	1620	1980
19	90	315	315	315	315	585	585	585	585	585	765	990	1260	1260	1260	1530	1620	1620	1620	1620	1620	1620	1620	1980
20	90	315	315	315	315	585	585	585	585	585	765	990	1260	1260	1260	1530	1620	1620	1620	1620	1620	1620	1620	1980
21	90	315	315	315	315	585	585	585	585	585	765	990	1260	1260	1260	1530	1620	1620	1620	1620	1620	1620	1620	1980
22	90	450	450	450	450	765	765	765	765	765	990	1215	1575	1575	1575	1890	1935	1935	1935	1935	1935	1935	1935	NA
23	90	450	450	450	450	765	765	765	765	765	990	1215	1575	1575	1575	1890	1935	1935	1935	1935	1935	1935	1935	NA
24	90	450	450	450	450	765	765	765	765	765	990	1215	1575	1575	1575	1890	1935	1935	1935	1935	1935	1935	1935	NA
25	90	540	540	540	540	900	900	900	900	900	1170	1440	1890	1890	1890	2250	2250	2250	2250	2250	2250	2250	2250	NA
26	90	540	540	540	540	900	900	900	900	900	1170	1440	1890	1890	1890	2250	2250	2250	2250	2250	2250	2250	2250	NA

gal/A	Acres treated																							
	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
27	90	540	540	540	540	900	900	900	900	900	1170	1440	1890	1890	1890	2250	2250	2250	2250	2250	2250	2250	2250	NA
28	90	540	540	540	540	900	900	900	900	900	1170	1440	1890	1890	1890	2250	2250	2250	2250	2250	2250	2250	2250	NA
29	135	630	630	630	630	1035	1035	1035	1035	1035	1350	1665	2070	2070	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA
30	135	630	630	630	630	1035	1035	1035	1035	1035	1350	1665	2070	2070	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA
31	135	630	630	630	630	1035	1035	1035	1035	1035	1350	1665	2070	2070	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA
32	180	720	720	720	720	1170	1170	1170	1170	1170	1485	1845	2250	2250	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA
33	180	720	720	720	720	1170	1170	1170	1170	1170	1485	1845	2250	2250	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA
34	180	720	720	720	720	1170	1170	1170	1170	1170	1485	1845	2250	2250	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA
35	225	810	810	810	810	1305	1305	1305	1305	1305	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
36	225	810	810	810	810	1305	1305	1305	1305	1305	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
37	225	810	810	810	810	1305	1305	1305	1305	1305	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
38	225	810	810	810	810	1305	1305	1305	1305	1305	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
39	270	900	900	900	900	1440	1440	1440	1440	1440	1800	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
40	270	900	900	900	900	1440	1440	1440	1440	1440	1800	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41	270	900	900	900	900	1440	1440	1440	1440	1440	1800	2250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
42	315	990	990	990	990	1575	1575	1575	1575	1575	1935	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
43	315	990	990	990	990	1575	1575	1575	1575	1575	1935	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
44	315	990	990	990	990	1575	1575	1575	1575	1575	1935	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
45	315	990	990	990	990	1575	1575	1575	1575	1575	1935	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
46	360	1080	1080	1080	1080	1665	1665	1665	1665	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
47	360	1080	1080	1080	1080	1665	1665	1665	1665	1665	2070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA= Not Allowed Buffer Zone Greater Than 1/2 Mile

Appendix I: Definitions

Application: Activities required to incorporate metam sodium, metam potassium, or dazomet into the prepared soil. Applying additional water to the treated soil in order to suppress offsite movement of MITC is not part of the application process.

Bystander Area: An area typically used or visited by people, such as parks, playgrounds, lakes, reservoirs, bus stops, and other similar areas, or other areas identified by the CAC.

Calm Day: Day when wind speeds are forecasted to drop below 5 miles per hour and/or when field observation confirms the same.

Drench Application: Application is made to pre-formed beds or to rows, using low-pressure (30–35 pounds per square inch) booms with nozzles <12 inches above the top of the beds.

MITC: Methyl isothiocyanate. A breakdown product of metam sodium, metam potassium, and dazomet.

Offsite Movement Suppression Requirement: Written procedures that will provide an adequate emergency response in the event MITC odors from metam sodium, metam potassium, or dazomet are detected away from the application site, or symptoms are reported. The plan provides instructions on response procedures to cooperators and employees involved in metam sodium, metam potassium, and dazomet applications. This requirement is separate from the post-application water treatment requirements.

Occupied Structure: A structure that is, will be, or may be occupied at any time during the application and/or buffer-zone period. This includes living and working areas that are associated with the structure (e.g., yard, garden). Homes occupied by the property owner or permittee are excluded from this definition.

Ozone Nonattainment Area: An area designated in Title 40, Code of Federal Regulations section 81.305 for the purpose of air quality planning within the chart titled “California – Ozone (1-Hour Standard).”

Post-Application Water Treatment: Required water that is applied following completion of an application of MITC for the purpose of inhibiting offgassing from treated soils. Each post-application water treatment must be applied following the constraints pertaining to post-application timing, quantity, rate, and duration as listed in the post-application requirements section of the Recommended Permit Conditions.

Power Mulcher Application: Metam is sprayed on or injected under the soil surface immediately in front of a power driven mulcher. The treated soil is mulched with untreated soil at a depth set to where pest control is desired and immediately compressed by a soil-compacting device.

Rod Bar Application: Backward-facing hollow tube (rod) attached to a metal blade-like horizontal bar. The rod bar is designed to operate under the surface of pre-formed beds, dispersing metam through holes spaced ½–1 inch linearly along the entire length of the bar. The application is immediately followed by a bed shaper or solid press rollers that compact the soil over the treated area. The rod bar application method is a variation of the shank injection method described on metam sodium and metam potassium product labels. As such, follow the product label requirements for shank injection applications when using the rod bar application method.

Rotary Tiller Application: Metam is sprayed on or injected under the soil surface immediately in front of a power driven tiller. The treated soil is tilled with untreated soil at a depth set to where control is desired and immediately compressed by a soil-compaction device.

School: An institution for the instruction of children from kindergarten through high school. Also included are day care centers and preschools, as defined in the California Health and Safety Code section 1596.76. *"Day care center" means any child day care facility other than a family day care home, and includes infant centers, preschools, extended day care facilities, and schoolage child care centers.* This excludes family home day care. (Users can find day care centers in their area by going to the following website: <https://secure.dss.ca.gov/CareFacilitySearch/>. Search by ZIP code, city, or county to find the names and addresses of the following child care centers in a specific area.)

Soil Capping Application: Following a metam sodium or metam potassium band treatment, a minimum of 6 inches of untreated soil is placed over the band.

Spray Blade Application: An 8–14 inch horizontal “V”-shaped blade designed to operate under the soil surface with one or two backward-facing spray nozzles placed under the leading edge. The blade is placed 1–4 inches below the soil surface and the resulting subsurface band is further covered with disk-hillers immediately following to form a minimum 6-inch protective cap over the treated band.

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