

Appendix E

California Department of Pesticide Regulation County Usage

Malathion

County	Crop	Pounds	Application Rate	Area Unit
Alameda	ALFALFA	76.6977	1	50 A
	COLLARD	1.8806	4	1.46 A
	MUSTARD	1.3185	3	0.99 A
	N-OUTDR	2.2285	6	3.1 A
	PUMPKIN	0.41	2	2 A
Amador	WALNUT	99.5319	16	130.3 A
Butte	ALFALFA	1109.325	6	654.6 A
	BEAN,	139.7342	1	97 A
	CITRUS	19.2048	1	5 A
	N-GRNHS	2.9606	4	0.28 A
	ORANGE	103.5761	2	25 A
	STRAWBERRY	4.9835	7	12 A
	WALNUT	1376.3744	8	362 A
Calaveras	WALNUT	176.0842	18	96 A
Colusa	ALFALFA	2539.2754	26	1910 A
	BEAN, DRIED	159.6295	1	128 A
	RICE	121.184	2	97.6 A
Contra Costa		0.0157	2	0.02 A
	ALFALFA	481.9213	7	322 A
Del Norte	APPLE	4.9378	1	25 A
	BOK CHOY	1361.6214	57	714 A
	BROCCOLI	399.961	18	162 A
	CHINESE	2264.2477	82	1169 A
	GAI LON	526.2199	25	278 A
	LEEK	76.8193	4	40 A
	LETTUCE, LEAF	44.1711	5	23 A
	MELON	15.3639	1	6 A
	N-GRNHS	1.3438	2	0.71 A

County	Crop	Pounds	Application Rate	Area Unit
	N-OUTDR	25.1027	17	99 A
	ORANGE	0.0555	5	0.5 A
	STRAWBERRY	242.4698	41	170 A
	TOMATILLO	6.5599	2	30 A
El Dorado				
	WALNUT	172.8433	2	36 A
Fresno				
	ALFALFA	3977.0385	38	3093.59 A
	BEAN,	2.3146	4	3.8 A
	BEET	110.0898	1	27 A
	BROCCOLI	114.2302	1	79.33 A
	CABBAGE	0.9787	1	1 A
	CANTALOUPE	151.2571	1	105 A
	CITRUS	1.5785	2	17 A
	CORN, HUMAN	938.28	20	1130 A
	COTTON	437.789	3	462 A
	CUCUMBER	0.2813	1	0.1 A
	EGGPLANT	10.0614	8	18 A
	FIG	24.9663	2	26 A
	GARLIC	240.0602	2	250 A
	GRAPE	784.777	5	193 A
	GRAPE, WINE	13.4434	1	7 A
	GRAPEFRUIT	522.371	2	14 A
	LEMON	7.4283	1	80 A
	NECTARINE	24.0445	1	10 A
	N-OUTDR	0.7666	2	0.75 A
	ORANGE	667.2283	19	628.5 A
	PEAR	130.8276	2	8 A
	PECAN	0.0935	1	0.1 A
	PEPPER,	0.432	2	0.5 A
	PUMPKIN	0.25	1	0.1 A
	RADISH	0.8512	2	5 A
	SPINACH	0.4938	1	0.5 A
	SQUASH,	1.6805	2	9 A
	TANGERINE	37.0952	2	27 A
	TOMATO,	278.5635	4	168 A

County	Crop	Pounds	Application Rate	Area Unit
Glenn	TURNIP	3.23	1	0.25 A
	WALNUT	84.5012	2	22 A
	WHEAT	814.8338	15	866 A
	ALFALFA	6874.04	89	4529.8 A
	BARLEY	376.7984	5	322.8 A
	ORANGE	5.6272	2	2 A
	STRAWBERRY	1.1843	1	2.5 A
Imperial	WALNUT	3151.7914	24	747 A
	WHEAT	70.7159	2	52.7 A
	ALFALFA	84899.7352	873	66999.5 A
	ASPARAGUS	40.7202	3	30 A
	BEAN,	199.7301	4	148 A
	BERMUDAGRAS	3565.0492	36	3390 A
	BROCCOLI	1759.5309	25	1131.5 A
	CABBAGE	184.8097	13	319 A
	CANOLA (RAPE)	146.9967	3	76.5 A
	CANTALOUPE	77.5681	2	95 A
	CARROT	143.0927	2	145 A
	CORN (FORAGE	67.2169	1	A
	CORN, HUMAN	115.2289	2	120 A
	DATE	100	2	45 A
	GRAPEFRUIT	287.333	2	150 A
	LEMON	243.4349	2	125 A
	LETTUCE,	574.1111	10	428 A
	LETTUCE, LEAF	115.2289	3	118 A
	ONION, DRY	480.1204	5	308 A
	RADISH	72.1174	1	37 A
	SPINACH	40.8836	2	20 A
	WHEAT	7.2118	1	6 A
Kern	ALFALFA	2519.8144	34	2398.3 A
	BEET	65.2289	3	22 A
	BROCCOLI	374.4939	11	204 A
	CABBAGE	0	2	8 A

County	Crop	Pounds	Application Rate	Area Unit
	CAULIFLOWER	265.257	14	138 A
	COTTON	5.7614	1	6 A
	GARLIC	533.6157	4	242.46 A
	GRAPE	469.1489	8	656.36 A
	GRAPE, WINE	110.0561	4	44 A
	N-OUTDR	4.8284	2	13 A
	OAT (FORAGE -	103.706	1	90 A
	ONION, DRY	107.6573	2	115 A
	ORANGE	4767.9187	31	1581.5 A
	PEACH	9.5237	1	9.5 A
	PEPPER,	158.4398	1	110 A
	TANGERINE	1686.8265	3	171 A
	TURNIP	38.7407	1	20 A
	WHEAT	201.4038	7	170 A
King				
Kings	ALFALFA	321.6476	10	647 A
	BEAN, DRIED	790.7649	5	2129 A
	COTTON	117.6243	2	475 A
	OAT	78.2178	1	77 A
	WALNUT	74.6644	2	25 A
Lake	WHEAT	309.9749	5	392.11 A
Lassen	STRAWBERRY	4.0884	1	3.5 A
	WALNUT	63.9405	14	208.5 A
Lassen				
Los Angeles	FORAGE	270.9462	5	223 A
	APPLE	0.5921	1	0.25 A
	CHERRY	0.0925	1	0.18 A
	FORAGE	175.0638	1	137 A
	KALE	15.695	2	8 A
	N-GRNHS	19.3496	9	18 A
	N-GRNHS	6.3396	5	7.27 A
	N-OUTDR	1.4445	3	3.5 A
	N-OUTDR	239.3754	202	229.26 A

County	Crop	Pounds	Application Rate	Area Unit
	N-OUTDR	9.6024	1	10 A
	PEACH	3.0531	1	0.75 A
	PLUM	0.5921	1	0.25 A
	STRAWBERRY	40.8836	1	20 A
Madera	ALFALFA	1000.7965	16	859.77 A
	ANIMAL	60.7147		1800 A
	TOMATO	16.0261	1	16 A
	WALNUT	178.4593	3	200 A
	WHEAT	230.381	4	191 A
Merced	ALFALFA	10475.74	138	7739.3 A
	ALMOND	61.3255	1	10 A
	ANIMAL	59.3632		1500 A
	BEAN,	101.1461	2	66 A
	CORN (FORAGE	115.4328	2	117 A
	COTTON	771.9401	11	568.1 A
	FIG	155.4879	4	92 A
	LETTUCE,	79.4921	2	58 A
	PASTURELAND	25.0528	1	25 A
	STRAWBERRY	94.7872	4	36 A
	SWEET	8.3733	1	5 A
	TOMATO,	163.5346	1	80 A
	WALNUT	494.692	6	93 A
	WHEAT	2290.0311	35	2194 A
Modoc	ALFALFA	711.7689	13	679 A
	BARLEY	424.781	4	416 A
	OAT	70.5652	1	69 A
	WHEAT	293.3989	5	659 A
Monterey	ARRUGULA	7.474	9	5.85 A
	AVOCADO	183.9764	1	22.5 A
	BROCCOLI	58.8724	2	28.8 A
	CARROT	88.0634	5	76 A
	CAULIFLOWER	55.9289	2	27.9 A

County	Crop	Pounds	Application Rate	Area Unit
	CELERY	1232.0799	94	1011.15 A
	CHINESE	2.9056	3	3 A
	CUCUMBER	19.2086	11	11 A
	ENDIVE	725.5066	103	477.9 A
	GRAPE, WINE	1280.8	30	656.42 A
	KALE	569.8158	28	302.5 A
	LETTUCE,	8706.224	481	6882.6 A
	LETTUCE, LEAF	15686.1693	1094	12382.48 A
	MUSTARD	73.8585	39	58.2 A
	N-GRNHS	40.2	9	20.64 A
	N-OUTDR	49.5035	41	135.5 A
	ONION, GREEN	1438.8514	111	746.6 A
	PEAS	397.8837	18	203.5 A
	PUMPKIN	1.063	1	1 A
	RADISH	16.9017	26	10.21 A
	RASPBERRY	153.8247	15	156 A
	SPINACH	14.7359	12	10.7 A
	SQUASH,	25.4139	1	15 A
	STRAWBERRY	40028.1161	923	21876.25 A
	SWISS CHARD	5.1514	1	5 A
	TURNIP	22.3922	27	14.77 A
	UNCULTIVATE	49.0604	1	24 A
	UNKNOWN	11.6834	10	9.45 A
Orange	BEAN,	60.1023	5	85 A
	BROCCOLI	0.5921	1	1 A
	BRUSSELS	0.5111	4	1 A
	CELERY	15.3723	1	10 A
	CORN, HUMAN	1.0222	2	1 A
	CUCUMBER	88.9833	3	62 A
	GRAPEFRUIT	0.296	1	0.25 A
	LEMON	0.296	1	0.25 A
	LETTUCE, LEAF	0.5111	1	1 A
	N-GRNHS	28.1	10	34 A
	N-OUTDR	634.6988	217	487.84 A
	ONION, DRY	3.8206	3	4 A

County	Crop	Pounds	Application Rate	Area Unit
	ONION, GREEN	1.1499	2	1.25 A
	ORANGE	0.5921	1	0.5 A
	PEACH	0.5921	1	0.5 A
	PEAS	2.0442	2	2 A
	PEPPER,	2.5554	5	2.5 A
	PEPPER, SPICE	0.5111	1	0.5 A
	PLUM	0.5921	1	0.5 A
	SQUASH	1.0222	2	1 A
	STRAWBERRY	8377.3664	137	4200.55 A
	TOMATO	4.359	6	3.91 A
Placer				
	WALNUT	19.9524	3	2.49 A
Riverside				
	ALFALFA	25138.7621	536	20749.12 A
	BROCCOLI	51.1046	2	30 A
	CHINESE	67.4258	8	47 A
	CORN, HUMAN	4.0884	1	17 A
	DATE	9018.1633	129	3222.5 A
	GRAPEFRUIT	0.5415	1	3 A
	NECTARINE	32.7069	6	5.5 A
	N-GRNHS	17.2843	3	1 A
	N-OUTDR	74.5729	30	95.6 A
	ONION, DRY	257.3445	4	134 A
	PEACH	2.5553	2	0.5 A
	PEPPER,	30.7277	1	34 A
	POTATO	46.8982	1	75 A
	STRAWBERRY	10.2209	1	10 A
	SWEET	114.4742	2	8 A
Sacramento				
	ALFALFA	833.0169	22	657.9 A
	N-OUTDR	25.9605	27	34 A
	PUMPKIN	375.6389	6	210 A
	STRAWBERRY	10.2209	2	8 A
San Benito				
	GRAPE, WINE	389.8528	16	324.05 A
	N-GRNHS	0.41	1	0.5 A

County	Crop	Pounds	Application Rate	Area Unit
	STRAWBERRY	199.3486	4	120 A
	WALNUT	12.2651	2	32 A
San Bernardino	APPLE	4.9378	1	25 A
	BOK CHOY	1361.6214	57	714 A
	BROCCOLI	399.961	18	162 A
	CHINESE	2264.2477	82	1169 A
	GAI LON	526.2119	25	278 A
	LEEK	76.8193	4	40 A
	LETTUCE, LEAF	44.1711	5	23 A
	MELON	15.3639	1	6 A
	N-GRNHS	1.3438	2	31000 S
	N-OUTDR	25.1027	17	98.25 A
	ORANGE	0.0555	5	0.5 A
	STRAWBERRY	242.4698	41	170 A
	TOMATILLO	6.5599	2	30 A
San Diego		95.1167	100	1535098 S
	AVOCADO	535.6253	294	7024.44 A
	CITRUS	4.5498	3	102 A
	CUCUMBER	7.4897	4	2.5 A
	EGGPLANT	12.1027	4	5.5 A
	GRAPEFRUIT	6.283	10	146 A
	LEMON	1.6033	2	32 A
	N-GRNHS	2.4233	7	13.5 A
	N-GRNHS	265.4856	80	76.19 A
	N-GRNHS	0.1238	1	2 A
	N-OUTDR	253.4054	48	178.32 A
	N-OUTDR	1364.4786	415	1041 A
	N-OUTDR	2.0371	4	6.5 A
	ORANGE	14.0865	19	316.16 A
	PEAR	0.8881	3	150 A
	PEPPER,	0.9602	2	1 A
	STRAWBERRY	218.1919	9	111 A
	STRUCTURAL	1015.4814		
	TANGERINE	0.0433	1	1 A

County	Crop	Pounds	Application Rate	Area Unit
	TOMATO	10.7841	17	20 A
	TOTAL POUNDS	3.9796		
	TOTAL POUNDS	360.9118		
San Joaquin				
	ALFALFA	2723.1156	56	2243.5 A
	BEAN, DRIED	955.5419	15	725.9 A
	BEAN,	877.7369	10	705 A
	CORN (FORAGE	336.0572	11	334 A
	CORN, HUMAN	10.2209	1	10 A
	CUCUMBER	7.9057	3	2 A
	N-GRNHS	2.6352	1	4 A
	N-OUTDR	274.6605	10	136.9 A
	ONION, DRY	24.5302	2	12 A
	ONION, GREEN	739.9939	14	362 A
	PUMPKIN	204.9497	4	143 A
	TOMATO	66.8551	7	53 A
	TOMATO,	7526.0318	121	6793.7 A
	WALNUT	4985.4868	58	1147.5 A
San Luis Obispo				
	KOHLRABI	0.0488	1	0.02 A
	LETTUCE,	7426.0903	457	4499.07 A
	LETTUCE, LEAF	3497.3042	499	1947.11 A
	N-GRNHS	4.9396	5	4.84 A
	N-GRNHS	29.2674	28	27.66 A
	N-OUTDR	27.0855	8	25.75 A
	N-OUTDR	32.2516	8	21.08 A
	ONION, DRY	3.8741	1	2 A
	PEACH	4.737	1	5 A
	PEAS	282.1004	79	742.25 A
	PEPPER,	72.0379	13	66 A
	SPINACH	419.5156	76	250.6 A
	SQUASH	226.7125	16	139.8 A
	SQUASH,	338.1654	35	206.3 A
	STRAWBERRY	1207.6504	27	647 A
	TOMATO	101.4023	24	41.93 A
	VERTEBRATE	2.6352	1	0.98 A

County	Crop	Pounds	Application Rate	Area Unit
San Luis Obispo	WALNUT	636.511	28	1040.8 A
	APRICOT	4.0884	1	1 A
	BEAN,	14.5665	1	10 A
	BEAN,	3.1767	2	2.2 A
	BOK CHOY	64.5081	31	32.49 A
	BROCCOLI	318.0292	17	179.15 A
	BRUSSELS	0.1456	1	0.06 A
	CABBAGE	17.886	3	9.76 A
	CAULIFLOWER	34.3614	3	19.26 A
	CELERY	2099.2792	155	1482.74 A
	CHINESE	1835.5673	179	736.43 A
	CITRUS	1.0221	1	0.12 A
	ENDIVE	71.1071	23	49.65 A
	GRAPE, WINE	79.439	3	113.32 A
	KALE	0.3099	1	0.13 A
San Mateo	BEAN,	38.8897	4	27 A
	BEAN,	247.7368	40	169 A
	BRUSSELS	33.2051	4	23 A
	N-GRNHS	0.4952	2	100000 S
	N-GRNHS	1.64	1	0.5 A
	N-OUTDR	8.1767	1	0.25 A
Santa Barbara	AVOCADO	93.4663	12	36 A
	BEAN, DRIED	128.7835	1	72 A
	BEET	5.1105	1	5 A
	BOK CHOY	3.841	1	2 A
	BROCCOLI	565	48	315.5 A
	CABBAGE	17.3814	7	12 A
	CAULIFLOWER	46.6755	14	24.85 A
	CELERY	6469.5708	512	4772.88 A
	CORN, HUMAN	7.3591	3	7.2 A
	ENDIVE	28.9195	9	17.2 A
	GRAPE, WINE	3.6795	1	2.4 A
	KALE	5.7614	1	4 A

County	Crop	Pounds	Application Rate	Area Unit
	LEMON	171.2877	3	40 A
	LETTUCE,	11594.1136	703	7759.06 A
	LETTUCE, LEAF	3251.7	290	1527.54 A
	N-OUTDR	18.9759	17	16.3 A
	N-OUTDR	16.9048	1	22.1 A
	ONION, DRY	0.15	1	0.08 A
	PEAS	354.5259	87	856 A
	PEPPER,	65.0738	5	54.7 A
	POTATO	42.6149	2	22 A
	RADISH	0	8	0.08 A
	REGULATORY	95.3893		1 A
	SPINACH	446.3338	100	339.6 A
	SQUASH,	281.0736	18	169.7 A
	STRAWBERRY	5532.3541	231	3232.05 A
	SWISS CHARD	2.913	1	1.9 A
	UNKNOWN	21.2309	8	11.79 A
	WALNUT	1150.9318	19	524 A
Santa Clara	CHINESE	22.9	8	53 A
	MINT	21.1259	19	42 A
	N-GRNHS	121.8	43	144 A
	N-GRNHS	34.9047	36	19.1 A
	N-OUTDR	1.8004	4	1.6 A
	N-OUTDR	14.3094	16	8.64 A
	STRAWBERRY	136.3878	7	113.5 A
	TOMATO	4.0884	2	30 A
	UNKNOWN	6.1325	2	6 A
	WALNUT	106.3138	4	26.5 A
Santa Cruz	WATERCRESS	24.0067	20	62 A
	BEET	165.2722	32	69 A
	BLACKBERRY	2320.5986	116	696.47 A
	BLUEBERRY	17.2843	3	9 A
	CELERY	23.2444	1	16 A
	COLLARD	5.7237	1	2.5 A
	GRAPE, WINE	5.9964	5	5 A

County	Crop	Pounds	Application Rate	Area Unit
	LETTUCE,	182.1776	14	145.07 A
	LETTUCE, LEAF	88.1451	6	66.57 A
	MINT	0	2	4 A
	MUSTARD	16.5171	5	7.66 A
	N-GRNHS	17.75	4	11.6 A
	N-OUTDR	3.9563	4	17600 S
	RASPBERRY	2111.3669	83	1619.63 A
	SQUASH	42.3822	4	25 A
	STRAWBERRY	11527.8117	304	6155.83 A
	SWISS CHARD	86.0397	13	37.75 A
Shasta	FORAGE	3240.1881	38	2428.72 A
	RICE, WILD	690.8564	5	466.7 A
	WALNUT	90.7892	9	26 A
Siskiyou	ALFALFA	69.5022	2	146 A
	ONION, DRY	348.5739	6	317 A
	POTATO	111.4488	2	109 A
Solano	ALFALFA	520.1161	17	902.7 A
	GRAPE, WINE	434.3887	4	170 A
	N-GRNHS	1.7597	3	0.34 A
	PEPPER,	33.9856	2	43 A
	PRUNE	1.4965	1	30 A
	SORGHUM	0.6747	1	24 A
	SQUASH	1.0221	1	1 A
	SUNFLOWER	0.0091	1	22 A
	TOMATO,	0.2078	4	164 A
	WALNUT	257.5275	9	226 A
	WATERMELON	3.0663	3	3 A
Sonoma	WALNUT	81.7673	2	50 A
Stanislaus	ALFALFA	2658.4957	48	2702.1 A
	BEAN, DRIED	2232.438	34	1812.6 A
	BEAN,	375.3267	5	267 A

County	Crop	Pounds	Application Rate	Area Unit
Sutter	CORN (FORAGE	93.0103	3	91 A
	GRAPE, WINE	0.3125	3	160 A
	NECTARINE	10.2209	1	5 A
	TOMATO,	992.5367	10	858.9 A
	WALNUT	2982.9612	61	644.5 A
	ALFALFA	79.8147	1	40 A
	BEAN, DRIED	149.6527	1	100 A
	COTTON	59.7812	2	110 A
	ONION, DRY	0	6	80 A
	RICE, WILD	276.7808	2	187 A
	WALNUT	5138.6736	45	1104 A
Tehama	ALFALFA	2280.1509	27	1509 A
	OAT	82.1337	2	63 A
	OAT (FORAGE -	34.0554	1	26 A
	STRAWBERRY	3.9237	2	4.5 A
	WALNUT	7700.2574	68	1960.3 A
Tulare	ALFALFA	1867.1179	22	1646.9 A
	BEAN, DRIED	107.1295	4	152 A
	CITRUS	506.9571	4	41 A
	CORN (FORAGE	181.5755	1	145 A
	GRAPE	159.0352	5	209.41 A
	GRAPEFRUIT	80.1643	2	66 A
	LEMON	153.3137	1	20 A
	OAT	26.5437	1	86 A
	OAT (FORAGE -		1	80.9 A
	ORANGE	5180.746	125	3028.4 A
	TANGELO	219.4905	2	22 A
	TANGERINE	12.6591	7	124.5 A
	TOMATILLO	19.2048	5	10 A
	WALNUT	139.0044	2	50 A
	WHEAT	553.9764	8	636 A
	WHEAT	424.4509	4	339 A
Tuolumne				

County	Crop	Pounds	Application Rate	Area Unit
	N-OUTDR	0.9372	1	3 A
Ventura				
	AVOCADO	0	2	25 A
	BEAN,	50.6139	1	33 A
	BEAN,	7.6657	2	5 A
	BEET	10.2209	9	10 A
	BROCCOLI	45.231	5	22.75 A
	CABBAGE	481.588	34	240.64 A
	CAULIFLOWER	1.2811	3	1.25 A
	CELERY	5503.7254	199	3602.05 A
	COLLARD	75.3894	3	29.5 A
	CUCUMBER	268.8508	12	137 A
	KALE	768.0402	69	381 A
	KOHLRABI	0	8	8 A
	LEMON	16876.7666	5	158.99 A
	LETTUCE,	55.3956	5	29 A
	LETTUCE, LEAF	38.8395	1	19 A
	MELON	4.5356	4	2.25 A
	MINT	2.6407	8	7.89 A
	MUSTARD	208.5066	10	88.75 A
	N-GRNHS	115.212	9	33.01 A
	ONION, DRY	33.7699	1	16.5 A
	ONION, GREEN	577.318	12	281.39 A
	PARSLEY	2.0442	2	2 A
	PEPPER,	84.343	3	61 A
	RASPBERRY	83.4333	7	49 A
	SPINACH	34.5414	2	16.5 A
	STRAWBERRY	5701.5174	113	4114.85 A
	SWISS CHARD	13.2872	9	13 A
	TOMATO	21	9	10 A
	TURNIP	126.1669	13	59.75 A
	WATERCRESS	0	27	183 A
	WATERMELON	38.5942	3	23 A
Yolo				
	ALFALFA	11041.246	120	8128.65 A
	COTTON	133.3625	1	87 A

County	Crop	Pounds	Application Rate	Area Unit
	PEPPER,	41.5037	2	50 A
	RICE	59.861	1	50 A
	STRAWBERRY	1.2471	1	3 A
	SUNFLOWER	5.329		162659 A
	WALNUT	429.608	15	340.5 A
Yuba				
	STRAWBERRY	11.0575	6	10 A
	WALNUT	3113.0968	13	512.33 A