

Pesticides Registered for Use in Papaya in Hawai'i **

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Fungicides			
Azoxystrobin (FRAC Group 11)			
AZOXYSTAR	42750-261	ALBAUGH, INC.	Anthracnose, Leaf spot, Powdery Mildew, Rust, Seedling root rot, Basal stem rot
AZOXYZONE	71532-35-91026	LG LIFE SCIENCE	Anthracnose, Leaf spot, Powdery Mildew, Rust, Seedling root rot, Basal stem rot
AZURE AGRICULTURAL FUNGICIDE	228-720	NUFARM AMERICAS	Anthracnose, Leaf spot, Powdery Mildew, Rust, Seedling root rot, Basal stem rot
ABOUND FLOWABLE FUNGICIDE	100-1098	SYNGENTA	Anthracnose, Leaf spot, Powdery mildew, Rust, Seedling root rot, Basal stem rot
AFRAME	100-1098	SYNGENTA	Anthracnose, Cercospora leaf spot, Powder mildew, Ruse, Seedling root rot, Basal stem rot
HERITAGE FUNGICIDE	100-1093	SYNGENTA	Alternaria leaf & fruit spot, Anthracnose, Cercospora leaf spot, Powdery Mildew, Rust
AZTEROID 1.65 SC FUNGICIDE	89118-3	VIVE CROP PROTECTION	Anthracnose, Leaf spot, Powdery Mildew, Rust, Seedling root rot, Basal stem rot
Bacillus amyloliquefaciens strain D747 (FRAC Group 44)			
DOUBLE NICKEL 55	70051-108	CERTIS USA, L.L.C.	Anthracnose, Scab, Bacterial canker
DOUBLE NICKEL LC	70051-107	CERTIS USA, L.L.C.	Anthracnose, Scab, Bacterial canker
TRIATHLON BA	70051-107-59807	OHP, INC.	Anthracnose, Scab, Bacterial canker
Bacillus subtilis QST 713 (FRAC Group 44)			
SERENADE ASO	264-1152	BAYER CROPSCI.	Anthracnose, Bacterial canker
SERENADE MAX	264-1151	BAYER CROPSCI.	Anthracnose, Bacterial canker
Bacillus subtilis GB03 (FRAC Group 44)			
COMPANION LIQUID BIOLOGICAL FUNGICIDE AGRICULTURAL USE	71065-3	GROWTH PRODUCTS	Root rot (Pythium), Botrytis, Powdery mildew, Wilt (Fusarium)
Basic copper sulfate (FRAC Group M1)			
CUPROFIX ULTRA 40 DISPERSS	70506-201	UNITED PHOSPHORUS, INC.	Anthracnose
BASIC COPPER 50W HB (DISC.)	42750-168	ALBAUGH, INC.	Anthracnose
BASIC COPPER 53	45002-8	ALBAUGH, INC.	Anthracnose
CUPROXAT FLOWABLE COPPER FUNGICIDE	35935-2	NUFARM LTD.	Anthracnose
CUPROFIX ULTRA 40 DISPERSS	70506-201	UNITED PHOSPHORUS, INC.	Anthracnose
Borax			
PREV-AM ULTRA (DISC.)	72662-3	ORO AGRI, INC.	Downy mildew, Powdery mildew, Botrytis

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Chlorothalonil (FRAC Group M5)			
CHLOROTHALONIL 720 SC	66330-362	ARYSTA LIFESCI.	Alternaria fruit spot, Anthracnose, Stem-end rot
INITIATE 720 FLOWABLE	34704-881	LOVELAND	Alternaria fruit spot, Anthracnose, Stem-end rot
ECHO 720 AGRICULTURAL FUNGICIDE	60063-7	SIPCAM AGRO USA	Alternaria fruit spot, Anthracnose, Stem-end rot
BRAVO WEATHERSTIK	50534-188-100	SYNGENTA	Alternaria fruit spot, Anthracnose, Stem-end rot
BRAVO ULTREX	50534-201-100	SYNGENTA	Alternaria fruit spot, Anthracnose, Stem-end rot
CHLORONIL 720	50534-188-100	SYNGENTA	Alternaria fruit spot, Anthracnose, Stem-end rot
Chromobacterium subtsugae strain PRAA4-1			
GRANDEVO	84059-17	MARRONE BIO INNOVATIONS	Caterpillars, Aphids, Thrips, Whiteflies
Copper hydroxide (FRAC Group M1)			
NU-COP 30 HB	42750-281	ALBAUGH, INC.	Anthracnose
NU-COP HB	42750-132	ALBAUGH, INC.	Anthracnose
KOCIDE 2000	91411-1-70051	CERTIS USA, L.L.C	Anthracnose
KOCIDE 3000	91411-2-70051	CERTIS USA, L.L.C	Anthracnose
DUPONT KOCIDE 101 FUNGICIDE/BACTERICIDE (DISC.)	352-681	DUPONT	Anthracnose
DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	352-656	DUPONT	Anthracnose
DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE (DISC.)	352-662	DUPONT	Anthracnose
DUPONT KOCIDE 4.5LF FUNGICIDE/BACTERICIDE (DISC.)	352-684	DUPONT	Anthracnose
DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE (DISC.)	352-688	DUPONT	Anthracnose
PREVISTO FUNGICIDE-BACTERICIDE	10163-330	GOWAN COMPANY	Anthracnose
KENTAN DF	80289-2	ISAGRO S.P.A.	Anthracnose
CHAMP WG AGRICULTURAL FUNGICIDE	55146-1	NUFARM AMERICAS	Anthracnose
CHAMP FORMULA 2 FLOWABLE	55146-64	NUFARM AMERICAS	Anthracnose
CHAMPION++ FUNIGICIDE / BACTERICIDE	55146-1	NUFARM AMERICAS	Anthracnose
Copper hydroxide (FRAC Group M1) + Mancozeb (FRAC Group M3)			
MANKOCIDE	91411-7-70051	CERTIS USA, L.L.C.	Anthracnose
DUPONT MANKOCIDE FUNGICIDE/BACTERICIDE	352-690	DUPONT	Anthracnose
Copper hydroxide (FRAC Group M1) + Mefenoxam (FRAC Group 4)			
RIDOMIL GOLD COPPER	100-804	SYNGENTA	Phytophthora blight

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Copper oxychloride + Copper hydroxide (FRAC Group M1)			
BADGE SC	80289-3-10163	GOWAN COMPANY	Anthracnose
BADGE X2	80289-12-10163	GOWAN COMPANY	Anthracnose
BADGE SC	80289-3	ISAGRO S.P.A.	Anthracnose
BADGE X2	80289-12	ISAGRO S.P.A.	Anthracnose
Copper sulfate pentahydrate (FRAC Group M1)			
MASTERCOP FUNGICIDE/BACTERICIDE	55272-18-66222	MAKHTESHIM-AGAN, DBA ADAMA	Anthracnose
Cyprodinil (FRAC Group 9) + Fludioxonil (FRAC Group 12)			
SWITCH 62.5WG	100-953	SYNGENTA	Botrytis fruit rot, Alternaria fruit rot, Anthracnose
Hydrogen peroxide + Peroxyacetic acid			
OXIDATE 2.0	70299-12	BIOSAFE SYSTEMS	Anthracnose, Phytophthora
Laminarin			
VACCIPLANT	83941-2-66330	ARYSTA LIFESCIENCE	Preventative: Anthracnose, Bacterial blight, Bacterial canker, Botrytis fruit rot, Scab
Mancozeb (FRAC Group M3)			
DITHANE M-45 AGRICULTURAL FUNGICIDE	62719-387	DOW AGROSCI.	Anthracnose, Phytophthora fruit rot
DITHANE F-45 RAINSHIELD FUNGICIDE	62719-396	DOW AGROSCI.	Anthracnose, Phytophthora fruit rot
DITHANE DF RAINSHIELD (AGRICULTURAL) FUNGICIDE	62719-402	DOW AGROSCI.	Anthracnose, Phytophthora fruit rot
ROPER DF RAINSHIELD	34704-1063	LOVELAND	Anthracnose, Phytophthora fruit rot
MANZATE PRO-STICK FUNGICIDE	70506-234	UNITED PHOSPHOR.	Anthracnose, Black spot (Cercospora), Phytophthora fruit rot
MANZATE FLOWABLE FUNGICIDE	70506-236	UNITED PHOSPHOR.	Anthracnose, Black spot (Cercospora), Phytophthora fruit rot
MANZATE MAX FUNGICIDE	70506-194	UNITED PHOSPHOR.	Anthracnose, Black spot (Cercospora), Phytophthora fruit rot
Mefenoxam (FRAC Group 4)			
AXLE 2E FUNGICIDE (Disc.)	100-1145	SYNGENTA	Damping off, Root rot
RIDOMIL GOLD SL	100-1202	SYNGENTA	Damping off, Root rot
Metalaxyl (FRAC Group 4)			
METASTAR 2E AG	71532-5-66330	ARYSTA	Phytophthora root rot
METASTAR 2E (DISC.)	71532-5-73006	LG INTERNATIONAL	Phytophthora root rot
METASTAR 2E METALAXYL FUNGICIDE	71532-5-91026	LG LIFE SCIENCE.	Phytophthora root rot

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Mineral oil - includes paraffin oil (FRAC Group NC)			
ULTRA-PURE OIL	69526-5-499	BASF CORP.	Mites, Papaya ringspot virus, Powdery mildew
PETRO-CANADA PURESpray GREEN	69526-9	INTELLIGRO	Mites, Papaya ringspot virus, Powdery mildew
PURESpray 10E	69526-5	INTELLIGRO	Mites, Papaya ringspot virus, Powdery mildew
BIOCOVER MLT	34704-805	LOVELAND	Mites, Papaya ringspot virus, Powdery mildew
BIOCOVER UL	34704-806	LOVELAND	Mites, Papaya ringspot virus, Powdery mildew
BIOCOVER SS	34704-809	LOVELAND	Mites, Papaya ringspot virus, Powdery mildew
GLACIAL SPRAY FLUID	34704-849	LOVELAND	Mites, Papaya ringspot virus, Powdery mildew
ULTRA-PURE OIL (DISC.)	69526-5-499	WHITEMIRE MICRO-GEN	Mites, Papaya ringspot virus, Powdery mildew
Myclobutanil (FRAC Group 3)			
RALLY 40WSP	62719-410	DOW AGROSCI.	Powdery mildew
Phosphorous acid			
FOSPHITE	68573-2	JH BIOTECH	Downy mildew, Erwinia, Fusarium, Phytophthora, Pythium, Rhizoctonia
AGRI-FOS 400 COMMERCIAL & AGRICULTURAL USES	71962-1	LIQUID FERTILISER	Damping off, Root rot, Downy mildew, Powdery mildew, Bacterial and leaf diseases, Anthracnose (suppression)
AGRI-FOS SYSTEMIC FUNGICIDE	71962-1	LIQUID FERTILISER	Phytophthora, Pythium, Fusarium, Rhizoctonia, Downy mildew, Powder ymildew, Bacterial and leaf diseases, Anthracnose
AGRI-FOS SYSTEMIC FUNGICIDE PLUS COMMERCIAL & AGRICULTURAL USES	71962-2	LIQUID FERTILISER	Phytophthora, Pythium, Fusarium, Rhizoctonia, Downy mildew, Powder ymildew, Bacterial and leaf diseases, Anthracnose
RAMPART	34704-924	LOVELAND	Erwinia, Fusarium, Phytophthora, Pythium, Rhizoctonia, Xanthomonas
FUNGI-PHITE	73771-5	VERDESIAN	Phytophthora, Pythium, Downy mildew, Suppression: Bacterial and leaf diseases, Leaf spots, Anthracnose, Powdery mildew
Potassium bicarbonate (FRAC Group NC)			
KALIGREEN	11581-2	OAT AGRIO CO.	Powdery mildew
Reynoutria sachalinensis (FRAC Group P5)			
REGALIA BIOPROTECTANT CONCENTRATE	84059-3	MARRONE BIO INNOV.	Anthracnose, Bacterial blight, Bacterial canker, Botrytis fruit rot, Scab
Rhamnolipid biosurfactant			
ZONIX BIOFUNGICIDE	72431-1	JENEIL BIOSURFACTANT	Zoospores of fungal plant pathogens

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Streptomyces lydicus WYEC 108			
ACTINOVATE AG (Disc.)	73314-1	NATURAL INDUST.	Root decay fungi, Soilborne diseases, Foliar fungi
ACTINOVATE AG	73314-1	NOVOZYMES BIOAG	Suppression: Root rot & damping-off fungi, Foliar fungal pathogens, Soil-borne fungi
ACTINOVATE AG BIOLOGICAL FUNGICIDE	73314-1	NOVOZYMES BIOAG	Suppression: Root rot & damping-off fungi, Foliar fungal pathogens, Soil-borne fungi
Sulfur + Copper hydroxide (FRAC Group M1)			
TOP COP WITH SULFUR	57538-6	STOLLER ENTERPRISES	Anthraco-nose
Tea tree oil			
TIMOREX GOLD	86182-1	STOCKTON LTD.	Broad spectrum fungicide
Trifloxystrobin (FRAC Group 11)			
FLINT	264-777	BAYER CROPSCI.	Powdery mildew
Triflumizole (FRAC Group 3)			
PROCURE 480SC	400-518	MACDERMID AG SOLUTIONS, INC.	Black spot, Powdery mildew
Yeast extract hydrolysate from <i>Saccharomyces cerevisiae</i>			
KEYPLEX 350	73512-2	KEYPLEX	Plant diseases (prevention aid)
KEYPLEX 350 OR	73512-4	KEYPLEX	Plant diseases (prevention aid)
Insecticides			
Azadirachtin/Neem (IRAC Group un)			
DEBUG TURBO	70310-5	AGRO LOGISTIC	Broad spectrum insect control, Nematodes
NIMBIOSYS NEEM OIL	84181-2	AHIMSA ALT INC.	Broad spectrum insect control
ECOZIN PLUS 1.2% ME	5481-559	AMVAC CHEMICAL	Broad spectrum insect control, Nematodes
AZASOL	81899-4-74578	ARBORJET, INC.	Broad spectrum insect control
AZAGUARD BOTANICAL INSECTICIDE/NEMATICIDE	70299-17	BIOSAFE SYSTEMS	Broad spectrum insect control, Nematodes
MOLT-X BOTANICALLY BASED INSECTICIDE / NEMATICIDE	68539-11	BIOWORKS, INC.	Broad spectrum insect control, Nematodes
AZA-DIRECT BIOLOGICAL INSECTICIDE	71908-1-10163	GOWAN	Broad spectrum insect control
AZATROL EC INSECTICIDE	2217-836	PBI/GORDON	Broad spectrum insect control
TERRANEEM EC	88760-5	TERRAMERA, INC.	Broad spectrum insect control, Diseases
AZATIN XL BIOLOGICAL INSECTICIDE	70051-27-59807	OHP, INC.	Broad spectrum insect control
TRILOGY	70051-2	CERTIS USA, L.L.C.	Insects, Mites, Diseases

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Bacillus thuringiensis (IRAC Group 11A)			
AGREE WG BIOLOGICAL INSECTICIDE	70051-47	CERTIS USA, L.L.C.	Caterpillars
DELIVER BIOLOGICAL INSECTICIDE	70051-69	CERTIS USA, L.L.C.	Caterpillars
JAVELIN WG BIOLOGICAL INSECTICIDE	70051-66	CERTIS USA, L.L.C.	Caterpillars
DIPEL DF BIOLOGICAL INSECTICIDE DRY FLOWABLE	73049-39	VALENT BIOSCI.	Caterpillars
XENTARI BIOLOGICAL INSECTICIDE DRY FLOWABLE	73049-40	VALENT BIOSCI.	Armyworms, Hornworms, Leafrollers, Loopers
Beauveria bassiana			
BOTANIGARD 22 WP	82074-2	LAM INT'L	Broad spectrum insect control
BOTANIGARD ES	82074-1	LAM INT'L	Broad spectrum insect control, Two-spotted spider mites
MYCOTROL ESO	82074-1	LAM INT'L	Broad spectrum insect control, Two-spotted spider mites
MYCOTROL O	82074-3	LAM INT'L	Broad spectrum insect control
MYCOTROL WPO	82074-2	LAM INT'L	Broad spectrum insect control
Bifenazate (IRAC Group UN)			
ACRAMITE 50WS	400-503	CHEMTURA	Spider mites
Buprofezin (IRAC Group 16)			
APPLAUD INSECT GROWTH REGULATOR	71711-21	NICHINO AMERICA	Leafhoppers, Mealybugs, Scales, Whiteflies
Canola oil + Garlic oil + Capsicum oleoresin extract			
CAPTIVA PRIME INSECT REPELLENT / INSECTICIDE	10163-336	GOWAN COMPANY	Mites, Thrips, Psyllids, Leafhopper, Lepidoptera, Whiteflies, Borers, Mealybugs, Plant bugs
Clofentezine (IRAC Group 10A)			
APOLLO SC OVICIDE/MITICIDE (DISC.)	66222-47	MAKHTESHIM-AGAN, DBA ADAMA	Spider mites
Etoxazole (IRAC Group 10B)			
ZEAL MITICIDE 1	59639-138	VALENT U.S.A.	Avocado brown mite, Persea mite, Two-spotted spider mites
Fenbutatin-oxide (IRAC Group 12B)			
VENDEX 50WP MITICIDE*	70506-211	UNITED PHOSPHORUS.	Mites, Spider mites, Broad mite
Fenpropathrin (IRAC Group 3A)			
DANITOL 2.4 EC SPRAY *	59639-35	VALENT U.S.A.	Loopers, Mirids, Mites, Spider Mites, Thrips

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Hydramethylnon (IRAC Group 20A)			
AMDRO PRO FIRE ANT BAIT (bait stations only)	241-322	BASF	Imported fire ant, Native fire ant, Little fire ant (non-bearing)
Imidacloprid (IRAC Group 4A)			
MACHO 2.0 FL	42750-110	ALBAUGH, INC.	Aphids, Leafhoppers, Whiteflies, Scales (suppression)
ADMIRE 2 FLOWABLE	264-758	BAYER CROPSCI.	Aphids, Leafhoppers, Whiteflies, Scales (suppression)
ADMIRE FLEX 4	264-783	BAYER CROPSCI.	Aphids, Avocado lace bug, Leafhoppers, Whiteflies, Scales (suppression), Thrips (foliage feeding only, suppression)
ADMIRE PRO SYSTEMIC PROTECTANT	264-827	BAYER CROPSCI.	Aphids, Leafhoppers, Mealybugs, Whiteflies, Thrips (foliage feeding only), Scales (suppression)
PROVADO 1.6 FLOWABLE INSECTICIDE	264-763	BAYER CROPSCI.	Aphids, Leafhoppers, Thrips, Whiteflies, Scales (suppression)
COURAZE 2F INSECTICIDE (Disc.)	67760-91	CHEMINOVA	Aphids, Leafhoppers, Mealybugs, Whiteflies, Scales (suppression)
COURAZE 4 INSECTICIDE (Disc.)	67760-116	CHEMINOVA	Aphids, Lace bugs, Leafhoppers, Whiteflies, Thrips, Scales (suppression)
COURAZE 4F INSECTICIDE (Disc.)	67760-97	CHEMINOVA	Aphids, Lace bugs, Leafhoppers, Whiteflies; Scales (suppression), Thrips (foliage feeding, suppression)
MALICE 2F	34704-893	LOVELAND	Aphids, Leafhoppers, Whiteflies, Scales (Suppression)
MALICE 75 WSP	34704-1009	LOVELAND	Aphids, Leafhoppers, Thrips, Whiteflies, Scales
PREY 1.6	34704-894	LOVELAND	Aphids, Leafhoppers, Thrips, Whiteflies, Scales (suppression)
SHERPA	34704-983	LOVELAND	Aphids, Leafhoppers, Mealybugs, Thrips, Whiteflies, Scales (suppression)
WIDOW INSECTICIDE	34704-893	LOVELAND	Aphids, Leafhoppers, Whiteflies, Scales (suppression)
WRANGLER INSECTICIDE	34704-931	LOVELAND	Aphids, Leafhoppers, Whiteflies, Scales (suppression)
ALIAS 2F FLOWABLE INSECTICIDE	66222-203	MAKHTESHIM-AGAN, DBA ADAMA	Aphids, Avocado lace bug, Leafhoppers, Whiteflies, Scales (suppression), Thrips (foliage feeding, suppression)
ALIAS 4F	66222-156	MAKHTESHIM-AGAN, DBA ADAMA	Aphids, Avocado lace bug, Leafhoppers/Sharpshooters, Mealybugs, Thrips (foliage feeding), Whiteflies, Scales (suppression)
MANA ALIAS 4F FLOWABLE INSECTICIDE	66222-156	MAKHTESHIM-AGAN, DBA ADAMA	Aphids, Avocado lace bug, Leafhoppers/Sharpshooters, Mealybugs, Thrips (foliage feeding), Whiteflies, Scales (suppression)
PASADA 1.6F FLOWABLE INSECTICIDE	66222-228	MAKHTESHIM-AGAN, DBA ADAMA	Aphids, Leafhoppers, Mealybugs, Thrips, Whiteflies

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Imidacloprid (IRAC Group 4A) (continued)			
NUPRID 2F INSECTICIDE	228-484	NUFARM	Aphids, Avocado lace bug, Leafhoppers, Whiteflies, Scales (suppression), Thrips (foliage feeding, suppression)
NUPRID 2SC SOIL/FOLIAR INSECTICIDE	228-572	NUFARM	Aphids, Avocado lace bug, Leafhoppers, Mealybugs, Whiteflies, Scales (suppression), Thrips (foliage feeding)
NUPRID 4F MAX INSECTICIDE	228-528	NUFARM	Aphids, Avocado lace bug, Leafhoppers, Whiteflies, Scales (suppression), Thrips (foliage feeding, suppression)
NUPRID 4.6F PRO INSECTICIDE	228-527	NUFARM	Aphids, Avocado lace bug, Leafhoppers, Whiteflies, Scales (suppression), Thrips (foliage feeding, suppression)
MONTANA 2F INSECTICIDE	83100-7-83979	ROTAM N. A.	Aphids, Lace bugs, Leafhoppers, Mealybugs, Whiteflies, Scales (suppression), Thrips (foliage-feeding)
MONTANA 4F INSECTICIDE	83100-21-83979	ROTAM N. A.	Aphids, Lace bugs, Leafhoppers, Mealybugs, Whiteflies, Scales (suppression), Thrips (foliage-feeding)
Kaolin clay			
SURROUND WP CROP PROTECTANT	61842-18	TESSENDERLO KERLEY	Broad spectrum insect control
Malathion (IRAC Group 1B)			
MALATHION 5 EC	66330-220	ARYSTA LIFESCI.	Aphids, Mealybugs
CHEMINOVA MALATHION 57% ORGANOPHOSPHATE	67760-40	CHEMINOVA	Aphids, Mealybugs
MALATHION 57%	67760-40-53883	CONTROL SOLUTIONS	Aphids, Mealybugs
DREXEL MALATHION 5 EC INSECTICIDE/MITICIDE	19713-217	DREXEL CHEMICAL	Aphids, Mealybugs
MALATHION 8 AQUAMUL	343704-474	LOVELAND	Aphids, Mealybugs
5 LB. MALATHION SPRAY	655-777	PRENTISS	Aphids
Methoxyfenozide (IRAC Group 18)			
INTREPID 2F	62719-442	DOW AGROSCI.	Caterpillars
WITHSTAND	62719-442	DOW AGROSCI.	Caterpillars
Methyl Eugenol			
SCENTRY METHYL EUGENOL CONE	36638-41	SCENTRY BIOLOGICALS	Oriental fruit fly

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Petroleum distillate, oils, solvent, or hydrocarbons			
SUFFOIL-X SPRAY OIL EMULSION	48813-1-68539	BIOWORKS	Bugs, Leafhoppers, Leafrollers, Scales, Thrips
TRITEK	48813-1	BRANDT CONSOLIDATED	Bugs, Leafhoppers, Leafrollers, Scales, Thrips
Piperonyl butoxide			
PBO-8 SYNERGIST	89459-33	CENTRAL GARDEN & PET COMPANY	Synergist to improve insect and mite control
SYNERPRO PBO	53883-258	CONTROL SOLUTIONS	Broad spectrum insect & mite control (synergist)
Piperonyl butoxide + pyrethrins (IRAC Group 3A)			
EVERGREEN CROP PROTECTION EC 60-6	1021-1770	MGK	Broad spectrum insect control
EVERGREEN PRO 60-6	1021-1770	MGK	Broad spectrum insect control
PRENTOX PYRONYL CROP SPRAY (Disc.)	655-489	PRENTISS	Broad spectrum insect control
PRESCRIPTION TREATMENT BRAND PYRETH-IT FORMULA 2	499-475	WHITMIRE MICRO- GEN	Broad spectrum insect control
Pyrethrins (IRAC Group 3A)			
PYGANIC CROP PROTECTION EC 1.4 II	1021-1771	MGK	Broad spectrum insect control
PYGANIC CROP PROTECTION EC 5.0 II	1021-1772	MGK	Broad spectrum insect control
PYGANIC SPECIALTY	1021-1772	MGK	Broad spectrum insect control
TERSUS INSECTICIDE	1021-2616	MGK	Broad spectrum insect control
Pyrethrins (IRAC Group 3A) + Beauveria bassiana			
BOTANIGARD MAXX	82074-5	LAM INT'L	Broad spectrum insect control
Pyriproxyfen (IRAC Group 7C)			
PITCH 0.86EC INSECT GROWTH REGULATOR (DISC.)	59639-95-66222	MAKHTESHIM-AGAN, DBA ADAMA	Scales
ESTEEM 0.86 INSECT GROWTH REGULATOR (14-DAY PHI)	59639-95	VALENT U.S.A.	Scales
ESTEEM 35 WP INSECT GROWTH REGULATOR (14-DAY PHI)	59639-115	VALENT U.S.A.	Scales
ESTEEM ANT BAIT	59639-114	VALENT U.S.A.	Ants
Soybean + Garlic oil + Capsicum oleoresin extract			
CAPTIVA	10163-326	GOWAN COMPANY	Mites, Thrips, Psyllids, Leafhopper, Lepidoptera, Whiteflies, Borers, Mealybugs, Plant bugs
Spinetoram (IRAC Group 5)			
DELEGATE WG INSECTICIDE	62719-541	DOW AGROSCI.	Caterpillars, Cutworms, Leafrollers, Katydid, Thrips

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Spinosad (IRAC Group 5)			
SEDUCE INSECT BAIT	67702-25-70051	CERTIS USA, L.L.C.	Insects
CONSERVE SC TURF AND ORNAMENTAL	62719-291	DOW AGROSCI.	Suppression: Caterpillars, Leafrollers, Katydid, Thrips
ENTRUST	62719-282	DOW AGROSCI.	Suppression: Caterpillars, Cutworms, Leafrollers, Katydid, Thrips
ENTRUST SC	62719-621	DOW AGROSCI.	Suppression: Caterpillars, Leafrollers, Katydid, Thrips
GF-120 NF Naturalyte Fruit Fly Bait	62719-498	DOW AGROSCI.	Tephritid fruit flies
SUCCESS	62719-292	DOW AGROSCI.	Suppression: Caterpillars, Cutworms, Leafrollers, Katydid, Thrips
Spirodiclofen (IRAC Group 23)			
ENVIDOR 2 SC	264-831	BAYER CROPSCI.	Broad mite, Eriophyid mites, Flat mites, Spider mites
Spirotetramat (IRAC Group 23)			
MOVENTO	264-1050	BAYER CROPSCI.	Aphids, Thrips, Mealybugs, Scales, Whiteflies, Suppression: Mites, Twospotted spider mite
Sulfur			
SULFUR 90W	19713-238	DREXEL CHEMICAL	Mites
MICRO SULF	55146-75	NUFARM	Mites
ACOIDAL	62562-4	QUIMETAL INDUSTRIAL	Mites
DEFEND DF	62562-8	QUIMETAL INDUSTRIAL	Mites
COSAVET-DF	70905-1	SULPHUR MILLS	Mites
COSAVET-DF EDGE FUNGICIDE-MITICIDE	70905-1	SULPHUR MILLS	Mites
MICROTHIOL DISPERS	70506-187	UNITED PHOSPHORUS	Mites
Herbicides			
Carfentrazone-ethyl (HRAC Group E; WSSA Group 14)			
AIM EC HERBICIDE	279-3241	FMC CORP.	Broadleaf weeds (selective)
Diquat dibromide (HRAC Group D; WSSA Group 22)			
REGLONE DESSICANT	100-1061	SYNGENTA	Broad spectrum weed control (Non-bearing)

Pesticides Registered for Use in Papaya in Hawai'i **

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Diuron (HRAC Group C2; WSSA Group 7)			
ALLIGARE DIURON 80DF--use on plants established at least 1 year	81927-12	ALLIGARE, LLC	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT DIREX 4L HERBICIDE (DISC.)—use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	352-678	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT KARMEX DF HERBICIDE (DISC.)—use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	352-692	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT KARMEX XP HERBICIDE (DISC.)—use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	352-692	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 4L HERBICIDE—use on plants established at least 1 year	34704-854	LOVELAND	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 80 WDG WEED KILLER (DISC.)—use on plants established at least 1 year	34704-648	LOVELAND	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DETERMINE 4L--use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	66222-54	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIREX 4L--use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	66222-54	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
KARMEX DF—use on plants established at least 1 year	66222-51	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
PARROT 4L--use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	66222-54	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
PARROT DF—use on plants established at least 1 year	66222-51	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
SEKOR 4L—use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	66222-54	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
SUPERDI 4L (DISC.)--use on plants established for at least 1 year; if <1 yr, mulch paper in the row required	66222-54	MAKHTESHIM-AGAN, DBA ADAMA	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
Glyphosate (HRAC Group G; WSSA Group 9)			
GLYPHOSATE 4 PLUS	81927-9	ALLIGARE, LLC	Broad spectrum weed control
GLYFOS HERBICIDE	4787-31	CHEMINOVA	Broad spectrum weed control
GLYFOS X-TRA HERBICIDE	4787-23	CHEMINOVA	Broad spectrum weed control
WYNCA USA SUNPHOSATE 41% HERBICIDE (DISC.)	87659-3	CINMAX INT'L	Broad spectrum weed control
ERASER A/P HERBICIDE	53883-266	CONTROL SOLUTIONS	Broad spectrum weed control
DURAMAX	62719-556	DOW AGROSCI.	Broad spectrum weed control
DURANGO DMA	62719-556	DOW AGROSCI.	Broad spectrum weed control
GLYPHOMAX XRT	62719-517	DOW AGROSCI.	Broad spectrum weed control
FOUR POWER PLUS	34704-890	LOVELAND	Broad spectrum weed control
MAD DOG	34704-889	LOVELAND	Broad spectrum weed control
MAD DOG 5.4#	34704-929	LOVELAND	Broad spectrum weed control

Pesticides Registered for Use in Papaya in Hawai'i **

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Glyphosate (HRAC Group G; WSSA Group 9) (continued)			
MAD DOG PLUS	34704-890	LOVELAND	Broad spectrum weed control
MAKAZE	34704-890	LOVELAND	Broad spectrum weed control
GLYPHOGAN HERBICIDE	66222-105	MAKHTESHIM-AGAN, DBA ADAMA	Broad spectrum weed control
QUALI-PRO GLYPHOSATE T&O	66222-208	MAKHTESHIM-AGAN, DBA ADAMA	Broad spectrum weed control
HONCHO HERBICIDE (Disc.)	524-445	MONSANTO	Broad spectrum weed control
HONCHO K6 HERBICIDE	524-539	MONSANTO	Broad spectrum weed control
HONCHO PLUS HERBICIDE	524-454	MONSANTO	Broad spectrum weed control
MON 866 HERBICIDE	524-544	MONSANTO	Broad spectrum weed control
ROUNDUP POWERMAX HERBICIDE (DISC.)	524-549	MONSANTO	Broad spectrum weed control
ROUNDUP ULTRAMAX HERBICIDE	524-512	MONSANTO	Broad spectrum weed control
ROUNDUP WEATHERMAX HERBICIDE	524-537	MONSANTO	Broad spectrum weed control
CREDIT 41 EXTRA NON-SELECTIVE HERBICIDE	71368-20	NUFARM	Broad spectrum weed control
CREDIT 41 NON-SELECTIVE HERBICIDE	71368-20	NUFARM	Broad spectrum weed control
CREDIT EXTRA (DISC.)	71368-65	NUFARM	Broad spectrum weed control
CREDIT XTREME HERBICIDE	71368-81	NUFARM	Broad spectrum weed control
FARMWORKS 41% GLYPHOSATE GRASS & WEED KILLER	84009-12	RAGAN & MASSEY	Broad spectrum weed control
FARMWORKS 41% GLYPHOSATE PLUS CONCENTRATE WITH SURFACTANT GRASS & WEED KILLER	86068-4-84009	RAGAN & MASSEY	Broad spectrum weed control
TOUCHDOWN HITECH HERBICIDE	100-1182	SYNGENTA	Broad spectrum weed control
TOUCHDOWN TOTAL HERBICIDE	100-1169	SYNGENTA	Broad spectrum weed control
GLYPHOSATE PLUS (Disc.)	83520-7	TACOMA AG	Broad spectrum weed control
GLYPHO 41 HERBICIDE (DISC.)	70506-226	UNITED PHOSPHOR.	Broad spectrum weed control
HI-YIELD SUPER CONCENTRATE KILLZALL	7401-462	VOLUNTARY PURCHASING	Broad spectrum weed control
HI-YIELD SUPER CONCENTRATE KILL-ZALL II HERBICIDE (DISC.)	19713-526-7401	VOLUNTARY PURCHASING	Broad spectrum weed control
CORNERSTONE 5 PLUS	1381-241	WINFIELD SOLUTIONS	Broad spectrum weed control
Nonanoic acid (HRAC Group Z; WSSA Group 27)			
SCYTHE HERBICIDE	10163-325	GOWAN	Broad spectrum weed control

Pesticides Registered for Use in Papaya in Hawai'i **

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Oxyfluorfen (HRAC Group E; WSSA Group 14)			
GOAL 2XL HERBICIDE	62719-424	DOW AGROSCI.	Spiny amaranth, Common purslane, Garden spurge
GOALTENDER	62719-447	DOW AGROSCI.	Spiny amaranth, Common purslane, Garden spurge
Paraquat dichloride (HRAC Group D; WSSA Group 22)			
FIRESTORM *	82557-1-400	MACDERMID AG SOLUTIONS, INC.	Broad spectrum weed control
BONEDRY *	82557-1	SINON USA	Broad spectrum weed control
GRAMOXONE SL * (DISC.)	100-1217	SYNGENTA	Broad spectrum weed control
GRAMOXONE SL 2.0 *	100-1431	SYNGENTA	Broad spectrum weed control
CYCLONE SL 2.0 *	100-1431	SYNGENTA	Broad spectrum weed control
Regulators			
Cytokinin (as kinetin)			
FOLIAR TRIGRRR PLANT GROWTH REGULATORS	51517-4	WESTBRIDGE AG	Improve uniformity and size, flowering and fruit set, color
Ethyl alcohol			
ETHY-GEN II CONCENTRATE	37433-1	CATALYTIC GENERATORS	Accelerate ripening
Kinetin + Indole-3-butyric acid + Gibberellic acid			
RECEPTOR	5905-594	HELENA CHEMICAL	Improve fertilizer efficiency; Stimulate growth
Nematicides/Fumigants			
Harpin alpha beta protein			
EMPLOY	71771-3	PLANT HEALTH CARE	Suppress nematode egg production
Post-harvest			
Fludioxonil (FRAC Group E2)			
FLUDIOXONIL 2L PH (POST-HARVEST USE ONLY)	42750-251	ALBAUGH, LLC	Botrytis fruit rot, Anthracnose, Stem-end rot, Penicillium spp., Rhizopus rot
SCHOLAR SC FUNGICIDE (POST-HARVEST USE ONLY)	100-1242	SYNGENTA	Botrytis fruit rot, Anthracnose, Stem-end rot, Penicillium spp., Rhizopus rot
Peroxyacetic acid + Hydrogen peroxide			
VIGOROX 15 F&V (DISC.)	65402-3	FMC CORP.	Deterioration/spoilage microorganisms
VIGOROX 15/10 ANTIMICROBIAL AGENT	65402-9	FMC CORP.	Deterioration/spoilage microorganisms
VIGOROX 15/10 ANTIMICROBIAL AGENT	65402-9	PEROXYCHEM LLC	Deterioration/spoilage microorganisms

Pesticides Registered for Use in Papaya in Hawai'i **

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Peroxyacetic acid + Hydrogen peroxide (continued)			
VIGOROX 15 F&V—for processing water	65402-3	PEROXYCHEM LLC	Pathogenic foodborne bacteria, Spoilage microorganisms
VIGOROX SP-15 ANTIMICROBIAL AGENT—for processing water	65402-3	PEROXYCHEM LLC	Pathogenic foodborne bacteria, Spoilage microorganisms
Molluscicides			
Iron phosphate			
FERROXX AQ	67702-49	W. NEUDORFF GMBH KG	Snails, Slugs
Iron phosphate + Spinosad (IRAC Group 5)			
BUG-N-SLUGGO	67702-24-70051	CERTIS	Snails, Slugs

* Product names followed by a single asterisk (*) are classified as **RESTRICTED USE PESTICIDES**. These products can only be distributed and sold by Licensed Distributors and only to Certified Applicators certified in the appropriate category.

**Attention. . .

Information in this report does not constitute a label replacement or a recommendation. Before applying any pesticide, applicators must determine if the product under consideration is correct for the intended use site. Always read the container/package label to determine if the intended use site is included on the label.

READ AND FOLLOW LABEL INSTRUCTIONS BEFORE PURCHASING AND USING ANY PESTICIDE PRODUCT.

Label images provided by the [Hawai'i Department of Agriculture Pesticides Branch](#);

Label site and chemical searches made possible by the [National Pesticide Information Retrieval System \(NPIRS\)](#) at Purdue University.

If any label hyperlinks in this document have changed or become obsolete, go to either of the two websites at the hyperlinks, above, to search for labels for pesticide products licensed for distribution in the State of Hawai'i.

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