

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

Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Fungicides			
Azoxystrobin (FRAC Group 11)			
ABOUND FLOWABLE FUNGICIDE	100-1098	SYNGENTA	Black sigatoka, Yellow sigatoka
Azoxystrobin (FRAC Group 11) + Propiconazole (FRAC Group 3)			
QUILT XCEL FUNGICIDE	100-1324	SYNGENTA	Black sigatoka, Yellow sigatoka
Bacillus amyloliquefaciens strain D747 (FRAC Group 44)			
DOUBLE NICKEL 55	70051-108	CERTIS USA, L.L.C.	Anthracnose, Scab, Bacterial canker, Sigatoka
DOUBLE NICKEL LC	70051-107	CERTIS USA, L.L.C.	Anthracnose, Scab, Bacterial canker, Sigatoka
Bacillus subtilis QST 713 (FRAC Group 44)			
SERENADE ASO	264-1152	BAYER CROPSCI	Sigatoka
Bacillus subtilis GB03 (FRAC Group 44)			
COMPANION LIQUID BIOLOGICAL FUNGICIDE AGRICULTURAL USE	71065-3	GROWTH PRODUCTS, LTD.	Root rot (Pythium), Botrytis, Powdery mildew, Wilt (Fusarium)
Basic copper sulfate (FRAC Group M1)			
CUPROFIX ULTRA 40 DISPERSS	70506-201	UNITED PHOSPHORUS, INC.	Sigatoka, Black pitting
BASIC COPPER 50W HB	42750-168	ALBAUGH, INC.	Sigatoka, Black pitting
CUPROXAT FLOWABLE COPPER FUNGICIDE	35935-3	NUFARM LTD.	Sigatoka, Black pitting
Borax			
PREV-AM ULTRA	72662-3	ORO AGRI, INC.	Botrytis , Downy mildew, Powdery mildew
Copper hydroxide (FRAC Group M1)			
DUPONT KOCIDE 101 FUNGICIDE/BACTERICIDE	352-681	DUPONT	Black sigatoka, Yellow sigatoka, Black pitting
DUPONT KOCIDE 2000 FUNGICIDE/BACTERICIDE	352-656	DUPONT	Black sigatoka, Yellow sigatoka, Black pitting
DUPONT KOCIDE 3000 FUNGICIDE/BACTERICIDE	352-662	DUPONT	Black sigatoka, Yellow sigatoka, Black pitting
DUPONT KOCIDE 4.5LF FUNGICIDE/BACTERICIDE	352-684	DUPONT	Black sigatoka, Yellow sigatoka, Black pitting
DUPONT KOCIDE DF FUNGICIDE/BACTERICIDE	352-688	DUPONT	Black sigatoka, Yellow sigatoka, Black pitting
GRIFFIN KOCIDE LF FUNGICIDE/BACTERICIDE (DISC.)	1812-338	GRIFFIN, LLC	Black sigatoka, Yellow sigatoka, Black pitting
NU-COP 3L (DISC.)	424750-75	ALBAUGH, INC.	Sigatoka, Black pitting
NU-COP HB	42750-132	ALBAUGH, INC.	Black sigatoka, Yellow sigatoka, Black pitting
NU-COP 50 DF (DISC.)	45002-4	ALBAUGH, INC.	Sigatoka, Black pitting
NU-COP 50WP (DISC.)	45002-7	ALBAUGH, INC.	Sigatoka, Black pitting

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Copper hydroxide (FRAC Group M1) (continued)			
CHAMPION++ FUNGICIDE/BACTERICIDE	55146-115	NUFARM AMERICAS	Black sigatoka, Yellow sigatoka, Black pitting
CHAMPION WETTABLE POWDER AG FUNGICIDE (DISC.)	55146-1	NUFARM AMERICAS	Sigatoka, Black pitting
CHAMPION WG AGRICULTURAL FUNGICIDE	55146-1	NUFARM AMERICAS	Sigatoka, Black pitting
CHAMP FORMULA 2 FLOWABLE	55146-64	NUFARM AMERICAS	Sigatoka, Black pitting
KENTAN DF	80289-2	ISAGRO S.P.A.	Black sigatoka, Yellow sigatoka, Black pitting
Copper hydroxide (FRAC Group M1) + Mancozeb (FRAC Group M3)			
DUPONT MANKOCIDE FUNGICIDE/BACTERICIDE	352-690	DUPONT	Sigatoka
Copper sulfate pentahydrate (FRAC Group M1)			
DELCUP L	88633-2	DELTA AGRO CHEMS.	Black sigatoka, Yellow sigatoka, Black pitting
MASTERCOP FUNGICIDE/BACTERICIDE	55272-18-66222	MAKHTESHIM-AGAN	Black sigatoka, Yellow sigatoka, Black pitting
Copper oxychloride + Copper hydroxide (FRAC Group M1)			
BADGE SC	80289-3	ISAGRO S.P.A.	Black sigatoka, Yellow sigatoka, Black pitting
BADGE X2	80289-12	ISAGRO S.P.A.	Black sigatoka, Yellow sigatoka, Black pitting
Fenbuconazole (FRAC Group 3)			
ENABLE 2F FUNGICIDE	62719-416	DOW AGROSCI.	Sigatoka
Fosetyl-AI (FRAC Group 33)			
ALIETTE WDG FUNGICIDE	264-516	BAYER CROPSCI.	Root disease complex
Hydrogen peroxide			
OXIDATE BROAD SPECTRUM BACTERICIDE/FUNGICIDE (DISC.)	70299-2	BIOSAFE SYSTEMS	Sigatoka
Hydrogen peroxide + peroxyacetic acid			
RENDITION	68660-14-70051	CERTIS USA, L.L.C.	Sigatoka
Mancozeb (FRAC Group M3)			
GRIFFIN MANZATE 75DF FUNGICIDE (DISC.)	1812-414	GRIFFIN, LLC	Sigatoka
GRIFFIN MANZATE FLOWABLE FUNGICIDE (DISC.)	1812-416	GRIFFIN, LLC	Sigatoka
DITHANE M-45 AGRICULTURAL FUNGICIDE	62719-387	DOW AGROSCI.	Sigatoka
DITHANE F-45 RAINSHIELD FUNGICIDE	62719-396	DOW AGROSCI.	Sigatoka
DITHANE DF RAINSHIELD (AGRICULTURAL) FUNGICIDE	62719-402	DOW AGROSCI.	Sigatoka
MANZATE PRO-STICK FUNGICIDE	70506-234	UNITED PHOSPHOR.	Sigatoka

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Mancozeb (FRAC Group M3) (continued)			
MANZATE FLOWABLE FUNGICIDE	70506-236	UNITED PHOSPHOR.	Sigatoka
MANZATE MAX FUNGICIDE	70506-194	UNITED PHOSPHOR.	Sigatoka
MANZATE PRO-STICK FUNGICIDE	1812-414-352	DUPONT	Sigatoka
DUPONT MANZATE PRO-STICK FUNGICIDE (DISC.)	352-704	DUPONT	Sigatoka
DUPONT MANZATE FLOWABLE FUNGICIDE	352-706	DUPONT	Sigatoka
ROPER DF RAINSHIELD	34704-1063	LOVELAND	Sigatoka
Mancozeb (FRAC Group M3) + Phosphorous acid			
MANCO-PHITE DF	83472-4	PLANT PROTECTANTS	Sigatoka
Mineral oil - includes paraffin oil (FRAC Group NC)			
ULTRA-PURE OIL HORTICULTURAL INSECTICIDE, MITICIDE AND FUNGICIDE	69526-5-499	BASF	Black leaf streak, Black Sigatoka, Yellow Sigatoka
SUFFOIL-X	48813-1-68539	BIOWORKS, INC.	Sigatoka
SAF-T-SIDE SPRAY OIL EMULSION (DISC.)	48813-1	BRANDT CONSOLIDATED	Sigatoka
TRITEK	48813-1	BRANDT CONSOLIDATED	Sigatoka
SUNSPRAY ULTRA-FINE SPRAY OIL	86330-11	HOLLYFRONTIER	Yellow sigatoka, Sooty mold fungus
BIOCOVER MLT	34704-805	LOVELAND	Black leaf streak, Black sigatoka, Yellow sigatoka
BIOCOVER UL	34704-806	LOVELAND	Black leaf streak, Black sigatoka, Yellow sigatoka
BIOCOVER SS	34704-809	LOVELAND	Black leaf streak, Black sigatoka, Yellow sigatoka
GLACIAL SPRAY FLUID	34704-849	LOVELAND	Black leaf streak, Black sigatoka, Yellow sigatoka
SUPERIOR 70 OIL	34704-353	LOVELAND	Black leaf streak
PETRO-CANADA PURESpray GREEN	69526-9	PETRO-CANADA	Black leaf streak, Black sigatoka, Yellow sigatoka
ULTRA-PURE OIL	69526-5-499	WHITEMIRE MICRO-GEN	Black leaf streak, Black sigatoka, Yellow sigatoka
Phosphorous acid (FRAC Group 33)			
FUNGI-PHITE	83472-1	PLANT PROTECTANTS	Suppression: Root rot complex, Sigatoka, Bunch disease
Potassium bicarbonate (FRAC Group NC)			
KALIGREEN	11581-2	OTSUKA AGRITECHNO CO.	Powdery mildew

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Propiconazole (FRAC Group 3)			
TILT FUNGICIDE	100-617	SYNGENTA	Black sigatoka
AMTIDE PROPICONAZOLE 41.8% EC FUNGICIDE	83851-10	AMTIDE LLC	Black sigatoka
Propiconazole (FRAC Group 3) + Azoxystrobin (FRAC Group 11)			
QUILT FUNGICIDE	100-1178	SYNGENTA	Black sigatoka, Yellow sigatoka
Reynoutria sachalinensis (FRAC Group P)			
REGALIA BIOFUNGICIDE	84059-3	MARRONE BIO INNOVATIONS.	Anthraco-nose, Bacterial blight, Bacterial canker, Botrytis fruit rot, Scab, Sigatoka
REGALIA BIOPROTECTANT CONCENTRATE (DISC.)	84059-3	MARRONE BIO INNOVATIONS.	Anthraco-nose, Bacterial blight, Bacterial canker, Botrytis fruit rot, Scab, Sigatoka
Rhamnolipid biosurfactant			
ZONIX BIOFUNGICIDE	72431-1	JENEIL BIOSURFACTANT	Zoospores of fungal plant pathogens
Streptomyces lydicus WYEC 108			
ACTINOVATE AG	73314-1	NATURAL INDUST.	Root decay fungi, Soilborne fungi, Foliar fungi (suppression)
Sulfur + Tebuconazole (FRAC Group 3)			
UNICORN DF FUNGICIDE	70905-2	SULPHUR MILLS	Black leaf streak, Yellow sigatoka
Tebuconazole (FRAC Group 3)			
AMTIDE TEBUCONAZOLE 45WDG FUNGICIDE	83851-4	AMTIDE LLC	Black leaf streak, Yellow sigatoka
ELITE 45 DF FOLIAR FUNGICIDE	264-749	BAYER CROPSCI.	Black leaf streak, Yellow sigatoka
Yeast extract hydrolysate from Saccharomyces cerevisiae			
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)			
AZATROL EC INSECTICIDE	2217-836	PBI/GORDON	Broad spectrum insect control
NIMBIOSYS NEEM OIL	84181-2	AHIMSA ALTERNATIVE	Broad spectrum insect control
DEBUG TURBO	70310-5	AGRO LOGISTIC	Broad spectrum insect control, Nematodes
ECOZIN PLUS 1.2% ME	5481-559	AMVAC CHEMICAL	Broad spectrum insect control, Nematodes
MOLT-X BOTANICALLY BASED INSECTICIDE / NEMATICIDE	68539-11	BIOWORKS, INC.	Broad spectrum insect control, Nematodes

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Azadirachtin/Neem (IRAC Group un) (continued)			
AZAGUARD BOTANICAL INSECTICIDE/NEMATICIDE	70299-17	BIOSAFE SYSTEMS	Broad spectrum insect control, Nematodes
AZA-DIRECT BIOLOGICAL INSECTICIDE	71908-1-10163	GOWAN	Broad spectrum insect control
AZATIN XL BIOLOGICAL INSECTICIDE	70051-27-59807	OHP, INC.	Broad spectrum insect control
TRILOGY	70051-2	CERTIS USA, L.L.C.	Insects, Mites, Diseases
AZAMAX AG 0.6	71908-5-81268	PARRY AMERICA	Broad spectrum insect control, Nematodes
Bacillus thuringiensis (IRAC Group 11A)			
CRYMAX BIOINSECTICIDE	70051-86	CERTIS USA, L.L.C.	Banana skipper
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
DIPEL ES BIOLOGICAL INSECTICIDE	73049-17	VALENT BIOSCI.	Caterpillars
XENTARI BIOLOGICAL INSECTICIDE DRY FLOWABLE	73049-40	VALENT BIOSCI.	Armyworms, Banana skippers
Beauveria bassiana			
MYCOTROL O	82074-3	LAVERLAM INT'L.	Broad spectrum insect control
BOTANIGARD ES	82074-1	LAVERLAM INT'L.	Broad spectrum insect control, Two-spotted spider mites
BOTANIGARD 22 WP	82074-2	LAVERLAM INT'L.	Broad spectrum insect control
Borax (IRAC Group 8)			
PREV-AM ULTRA	72662-3	ORO AGRI, INC.	Aphid, Leafhopper, Mite, Thrips, Whitefly
Buprofezin (IRAC Group 16)			
APPLAUD 70DF INSECT GROWTH REGULATOR	71711-21	NICHINO AMERICA	Leafhoppers, Mealybugs, Scales, Whiteflies
APPLAUD INSECT GROWTH REGULATOR	71711-21	NICHINO AMERICA	Leafhoppers, Mealybugs, Scales, Whiteflies
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)			
AMTIDE IMIDACLOPRID 2F INSECTICIDE	83851-12	AMTIDE LLC	Aphids, Leafhoppers, Scales (suppression)
ADMIRE FLEX 4	264-783	BAYER CROPSCI.	Aphids, Leafhoppers, Scales (suppression)
ADMIRE PRO SYSTEMIC PROTECTANT	264-827	BAYER CROPSCI.	Aphids, Leafhoppers, Scales (suppression)
MALICE 2F	34704-893	LOVELAND	Aphids, Leafhoppers, Scales (Suppression)

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Imidacloprid (IRAC Group 4A) (continued)			
NUPRID 1.62F INSECTICIDE (DISC.)	228-488	NUFARM	Aphids, Leafhoppers, Thrips
NUPRID 2F INSECTICIDE	228-484	NUFARM	Aphids, Leafhoppers, Scales (suppression)
NUPRID 2SC SOIL/FOLIAR INSECTICIDE	228-572	NUFARM	Aphids, Leafhoppers, Thrips, Scales (suppression)
NUPRID 4F MAX INSECTICIDE	228-528	NUFARM	Aphids, Leafhoppers, Thrips, Scales (suppression)
NUPRID 4.6F PRO INSECTICIDE	228-527	NUFARM	Aphids, Leafhoppers, Scales (suppression)
ALIAS 2F FLOWABLE INSECTICIDE	66222-203	MAKHTESHIM-AGAN	Aphids, Leafhoppers, Scales (suppression)
ALIAS 2F FLOWABLE INSECTICIDE (DISC.)	264-758-66222	MAKHTESHIM-AGAN	Aphids, Leafhoppers, Scales (suppression)
PASADA 1.6F FLOWABLE INSECTICIDE (DISC.)	264-763-66222	MAKHTESHIM-AGAN	Aphids, Leafhoppers, Thrips
PASADA 1.6F FLOWABLE INSECTICIDE	66222-228	MAKHTESHIM-AGAN	Aphids, Leafhoppers, Thrips
PROVADO 1.6 FLOWABLE INSECTICIDE	264-763	BAYER CROPSCI.	Aphids, Leafhoppers, Thrips
SHERPA	34704-983	LOVELAND	Aphids, Leafhoppers, Thrips
MANA ALIAS 4F FLOWABLE INSECTICIDE	66222-156	MAKHTESHIM-AGAN	Aphids, Leafhoppers, Thrips, Scales (suppression)
COURAZE 2F INSECTICIDE	67760-91	CHEMINOVA	Aphids, Leafhoppers, Thrips, Scales (suppression)
COURAZE 4F INSECTICIDE	67760-97	CHEMINOVA	Aphids, Leafhoppers, Thrips, Scales (suppression)
COURAZE 4 INSECTICIDE	67760-116	CHEMINOVA	Aphids, Leafhoppers, Thrips, Scales (suppression)
MONTANA 2F INSECTICIDE	83100-7-83979	ROTAM N. A.	Aphids, Leafhoppers, Whiteflies, Scales (suppression)
MONTANA 4F INSECTICIDE	83100-21-83979	ROTAM N. A.	Aphids, Leafhoppers, Thrips, Scales (suppression)
WIDOW INSECTICIDE	34704-893	LOVELAND	Aphids, Leafhoppers, Scales (suppression)
WRANGLER INSECTICIDE	34704-931	LOVELAND	Aphids, Leafhoppers, Thrips, Scales (suppression)
Kaolin clay			
SURROUND WP CROP PROTECTANT	61842-18	TESSENDERLO KERLEY	Broad spectrum insect control
Methyl Eugenol			
SCENTRY METHYL EUGENOL CONE	36638-41	SCENTRY BIOLOGICALS	Oriental fruit fly
Petroleum distillate, oils, solvent, or hydrocarbons			
TRITEK	48813-1	BRANDT CONSOLIDATED	Bugs, Leafhoppers, Leafrollers, Scales, Thrips
SUFFOIL-X	48813-1-68539	BIOWORKS	Bugs, Leafhoppers, Leafrollers, Scales, Thrips
SAF-T-SIDE SPRAY OIL EMULSION (DISC.)	48813-1	BRANDT CONSOLIDATED	Bugs, Leafhoppers, Leafrollers, Scales, Thrips
SUNSPRAY ULTRA-FINE SPRAY OIL	86330-11	HOLLYFRONTIER	Aphids, Mealybugs, Scales, Whitefly

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Piperonyl butoxide			
SYNERPRO PBO	53883-258	CONTROL SOLUTIONS	Broad spectrum insect & mite control (synergist)
Piperonyl butoxide + pyrethrins (IRAC Group 3A)			
PRESCRIPTION TREATMENT BRAND PYRETH-IT FORMULA 2	499-475	WHITMIRE MICRO-GEN	Broad spectrum insect control
PRENTOX PYRONYL CROP SPRAY	655-489	PRENTISS	Broad spectrum insect control
EVERGREEN CROP PROTECTION EC 60-6	1021-1770	MCLAUGHLIN GORMLEY KING (MGK)	Broad spectrum insect control
Potassium salts of fatty acids			
M-PEDE INSECTICIDE/FUNGICIDE (DISC.)	62719-515	DOW AGROSCIENCES	Broad spectrum insect control
DES-X INSECTICIDAL SOAP CONCENTRATE	67702-22-70051	CERTIS USA, L.L.C.	Broad spectrum insect control
M-PEDE INSECTICIDE MITICIDE FUNGICIDE	10163-324	GOWAN COMPANY	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
Pyriproxyfen (IRAC Group 7C)			
ESTEEM ANT BAIT—SUPPLEMENTAL LABEL	59639-114	VALENT U.S.A.	Imported fire ants, Native fire ant
KNACK—SUPPLEMENTAL LABEL	59639-95	VALENT U.S.A.	Whiteflies
Spinetoram (IRAC Group 5)			
DELEGATE WG INSECTICIDE	62719-541	DOW AGROSCI.	Caterpillars, Banana rust thrips, Hawaiian flower thrips
Spinosad (IRAC Group 5)			
ENTRUST	62719-282	DOW AGROSCI.	Caterpillars, Banana rust thrips, Hawaiian flower thrips
CONSERVE SC TURF AND ORNAMENTAL	62719-291	DOW AGROSCI.	Caterpillars, Banana rust thrips, Hawaiian flower thrips
ENTRUST SC	62719-621	DOW AGROSCI.	Caterpillars, Banana rust thrips, Hawaiian flower thrips
SEDUCE INSECT BAIT	67702-25-70051	CERTIS USA, L.L.C.	Ants, Cutworms, Earwigs
SUCCESS	62719-292	DOW AGROSCI.	Caterpillars, Banana rust thrips, Hawaiian flower thrips
GF-120 NF Naturalyte Fruit Fly Bait	62719-498	DOW AGROSCI.	Tephritid fruit flies
Spirotetramat (IRAC Group 23)			
MOVENTO	264-1050	BAYER CROPSCI.	Aphids

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Sulfur			
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
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)
Diuron (HRAC Group C2; WSSA Group 7)			
DETERMINE 4L	66222-54	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIREX 4L	66222-54	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT DIREX 4L HERBICIDE	352-678	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT KARMEX DF HERBICIDE	352-692	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DUPONT KARMEX XP HERBICIDE	352-692	DUPONT	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
GRIFFIN DIREX 4L HERBICIDE (DISC.)	1812-257	GRIFFIN, LLC	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
GRIFFIN KARMEX DF HERBICIDE (DISC.)	1812-362	GRIFFIN, LLC	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 80 WDG WEED KILLER (TRANSFERRED FROM PLATTE)	34704-648	LOVELAND	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 4L HERBICIDE	34704-854	LOVELAND	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
KARMEX DF	66222-51	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
PARROT DF	66222-51	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
PARROT 4L	66222-54	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)

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Diuron (HRAC Group C2; WSSA Group 7) (continued)			
SUPERDI 4L	66222-54	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
SEKOR 4L	66222-54	MAKHTESHIM-AGAN	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
ALLIGARE DIURON 80DF	81927-12	ALLIGARE, LLC	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 4L	85678-24	REDEAGLE INTERNATIONAL	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
DIURON 80 WDG	85678-25	REDEAGLE INTERNATIONAL	Annual weeds, preemergence (selective), Perennial weeds, preemergence (selective)
Fluazifop-P-butyl (HRAC Group A; WSSA Group 1)			
FUSILADE DX HERBICIDE	100-1070	SYNGENTA	Annual and perennial grass weeds
Glyphosate (HRAC Group G; WSSA Group 9)			
ROUNDUP WEATHERMAX HERBICIDE	524-537	MONSANTO	Broad spectrum weed control, BBTV-infected banana
ROUNDUP ORIGINAL MAX HERBICIDE (DISC.)	524-539	MONSANTO	Broad spectrum weed control BBTV-infected banana
MON 866 HERBICIDE	524-544	MONSANTO	Broad spectrum weed control BBTV-infected banana
ROUNDUP POWERMAX HERBICIDE	524-549	MONSANTO	Broad spectrum weed control BBTV-infected banana
ROUNDUP ORIGINAL HERBICIDE (DISC.)	524-445	MONSANTO	Broad spectrum weed control
TOUCHDOWN TOTAL HERBICIDE	100-1169	SYNGENTA	Broad spectrum weed control
TOUCHDOWN HITECH HERBICIDE	100-1182	SYNGENTA	Broad spectrum weed control
GLYPHOSATE 4 PLUS	81927-9	ALLIGARE, LLC	Broad spectrum weed control BBTV-infected banana
GLYPHO 41 HERBICIDE	70506-226	UNITED PHOSPHOR.	Broad spectrum weed control BBTV-infected banana
DURANGO DMA	62719-556	DOW AGROSCI.	Broad spectrum weed control BBTV-infected banana
DURAMAX	62719-556	DOW AGROSCI.	Broad spectrum weed control BBTV-infected banana
HONCHO HERBICIDE	524-445	MONSANTO	Broad spectrum weed control
HONCHO PLUS HERBICIDE	524-454	MONSANTO	Broad spectrum weed control BBTV-infected banana
GLYFOS HERBICIDE	4787-31	CHEMINOVA	Broad spectrum weed control BBTV-infected banana
GLYFOS X-TRA HERBICIDE	4787-23	CHEMINOVA	Broad spectrum weed control

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Glyphosate (HRAC Group G; WSSA Group 9) (continued)			
GLY STAR ORIGINAL (DISC.)	42750-60	ALBAUGH, INC.	Broad spectrum weed control
GLY STAR PLUS (DISC.)	42750-61	ALBAUGH, INC.	Broad spectrum weed control BBTV-infected banana
ROUNDUP ULTRAMAX HERBICIDE	524-512	MONSANTO	Broad spectrum weed control BBTV-infected banana
HI-YIELD SUPER CONCENTRATE KILL-ZALL II HERBICIDE	19713-526-7401	VOLUNTARY PURCHASING	Broad spectrum weed control
CINCO	34704-929	LOVELAND	Broad spectrum weed control
MAD DOG	34704-889	LOVELAND	Broad spectrum weed control
FOUR POWER PLUS	34704-890	LOVELAND	Broad spectrum weed control BBTV-infected banana
MIRAGE PLUS	34704-883	LOVELAND	Broad spectrum weed control BBTV-infected banana
MAD DOG PLUS	34704-890	LOVELAND	Broad spectrum weed control BBTV-infected banana
MAKAZE	34704-890	LOVELAND	Broad spectrum weed control BBTV-infected banana
BUCCANEER PLUS GLYPHOSATE HERBICIDE (DISC.)	55467-9	TENKOZ	Broad spectrum weed control BBTV-infected banana
BUCCANEER GLYPHOSATE HERBICIDE (DISC.)	55467-10	TENKOZ	Broad spectrum weed control
GLYPHOMAX XRT	62719-517	DOW AGROSCI.	Broad spectrum weed control BBTV-infected banana
GLYPHOGAN HERBICIDE	66222-105	MAKHTESHIM-AGAN	Broad spectrum weed control BBTV-infected banana
QUALI-PRO GLYPHOSATE T&O	66222-208	MAKHTESHIM-AGAN	Broad spectrum weed control
CREDIT 41 EXTRA NON-SELECTIVE HERBICIDE	71368-20	NUFARM	Broad spectrum weed control
ATILA NON-SELECTIVE HERBICIDE (DISC.)	71368-20	NUFARM	Broad spectrum weed control
ATILA EXTRA NON-SELECTIVE HERBICIDE (DISC.)	71368-20	NUFARM	Broad spectrum weed control
NUFARM CREDIT EXTRA	71368-65	NUFARM	Broad spectrum weed control
CREDIT XTREME HERBICIDE	71368-81	NUFARM	Broad spectrum weed control BBTV-infected banana
CREDIT 41 NON-SELECTIVE HERBICIDE	71368-20	NUFARM	Broad spectrum weed control
GLYPHOSATE PLUS (DISC.)	83520-7	TACOMA AG	Broad spectrum weed control BBTV-infected banana
ERASER A/P HERBICIDE	53883-266	CONTROL SOLUTIONS	Broad spectrum weed control BBTV-infected banana
GLYPHOSATE 41% PLUS	86828-1	CONSUS CHEMICALS	Broad spectrum weed control BBTV-infected banana

Pesticides Registered for Use in Banana 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)			
FARMWORKS 41% GLYPHOSATE PLUS CONCENTRATE WITH SURFACTANT GRASS & WEED KILLER	86068-4-84009	RAGAN & MASSEY, INC.	Broad spectrum weed control BBTV-infected banana
CORNERSTONE 5 PLUS	1381-241	WINFIELD SOLUTIONS, LLC	Broad spectrum weed control BBTV-infected banana
Nonanoic acid (HRAC Group Z; WSSA Group 27)			
SCYTHE HERBICIDE	10163-325	GOWAN	Broad spectrum weed control
SCYTHE HERBICIDE (DISC.)	62719-529	DOW AGROSCI.	Broad spectrum weed control
Oxyfluorfen (HRAC Group E; WSSA Group 14)			
GOAL 2XL (SLN HI-020010)	62719-424	DOW AGROSCI.	Weeds
Paraquat dichloride (HRAC Group D; WSSA Group 22)			
BONEDRY *	82557-1	SINON USA	Broad spectrum weed control
GRAMOXONE INTEON *	100-1217	SYNGENTA	Broad spectrum weed control
GRAMOXONE SL *	100-1217	SYNGENTA	Broad spectrum weed control
GRAMOXONE SL 2.0 *	100-1431	SYNGENTA	Broad spectrum weed control
Paraquat dichloride (HRAC Group D; WSSA Group 22) (continued)			
CYCLONE SL 2.0 *	100-1431	SYNGENTA	Broad spectrum weed control
FIRESTORM *	82557-1-400	CHEMTURA	Broad spectrum weed control
Nematicides/Fumigants			
Ethoprop			
MOCAP 15% GRANULAR NEMATICIDE-INSECTICIDE *	5481-9040	AMVAC CHEMICAL CORP.	Nematodes, Banana root borer
MOCAP NEMATICIDE-INSECTICIDE MOCAP 15% GRANULAR LOCK N' LOAD CLOSED LOADING SYSTEM *	5481-9040	AMVAC CHEMICAL CORP.	Nematodes, Banana root borer
MOCAP 15% GRANULAR LOCK N' LOAD *	264-457	BAYER CROPS SCIENCE LP	Nematodes, Banana root borer
MOCAP 15% GRANULAR NEMATICIDE INSECTICIDE *	264-457	BAYER CROPS SCIENCE LP	Nematodes, Banana root borer
Paecilomyces lilacinus strain 251 (A filamentous fungus)			
MELOCON WG BIOLOGICAL NEMATICIDE	72444-2	PROPHYTA BIOLOGISCHER PFLANZENSCHUTZ GMBH	Nematodes (suppression)

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Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Molluscicides			
Iron phosphate + Spinosad (IRAC Group 5)			
BUG-N-SLUGGO	67702-24-70051	CERTIS	Snails, Slugs
Metaldehyde			
DEADLINE M-PS MINI PELLETS	5481-507	AMVAC CHEMICAL	Snails, Slugs
DEADLINE M-PS MINI PELLETS (DISC.)	5481-511	AMVAC CHEMICAL	Snails, Slugs
ORCAL SLUG-FEST ALL WEATHER FORMULA (DISC.)	71096-4	OR-CAL, INC.	Snails, Slugs
Regulators			
Cytokinin (as kinetin)			
SOIL TRIGRRR PLANT GROWTH REGULATOR	51517-3	WESTBRIDGE AG	Improve vigor, root growth, uniformity, size; stress resistance; increase fruit set
FOLIAR TRIGRRR PLANT GROWTH REGULATORS	51517-4	WESTBRIDGE AG	Improve uniformity and size, flowering and fruit set
STIMPLEX (DISC.)	67016-1	ACADIAN SEAPLANTS LTD.	Stimulate growth and development
X-CYTE	57538-15	STOLLER ENTERPRISES.	Reduce stress
Cytokinin (as kinetin) + Gibberellic acid + Indole-3-butyric acid			
STIMULATE YIELD ENHANCER	57538-13	STOLLER ENTERPRISES	Enhance growth and development
Gibberellic acid			
N-LARGE	57538-18	STOLLER ENTERPRISES	Extend storage life
Post-harvest			
Ethanol			
ETHY-GEN II CONCENTRATE	37433-1	CATALYTIC GENERATORS	Accelerate ripening
Ethylene			
ETHYLENE UN 1962	63963-1	AIR LIQUIDE AMERICA, L.P.	Initiate degreening, ripening
1-Methylcyclopropene			
SMARTFRESH PRO TABS	71297-10	AGROFRESH, INC.	Counteracts ethylene effects
SMARTFRESH SMARTTABS	71297-3	AGROFRESH, INC.	Counteracts ethylene effects

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Active Ingredient Product Name	EPA Reg. No.	Registrant	Pest(s) (as listed for the specified crop)
Peroxyacetic acid + Hydrogen peroxide			
ECOLAB TSUNAMI 100	1677-164	ECOLAB, INC.	Deterioration/spoilage microorganisms
VIGOROX 15 F&V	65402-3	FMC CORP.	Deterioration/spoilage microorganisms
VIGOROX 15/10 ANTIMICROBIAL AGENT	65402-9	FMC CORP.	Deterioration/spoilage microorganisms
ZEPROLONG VF (DISC.)	65402-3-1270	ZEP INC.	Deterioration/spoilage microorganisms

* 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 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.