

Hines Nurseries

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

2010 NOV 29 PM 1:55

Hines Nurseries LLC Fallbrook facility hereby formally documents our Notice of Intent to enter into Regional Water Quality Board 9's Waiver 4 program as an individual discharger.

Hines Nurseries LLC operates wholesale ornamental production, and distribution facilities in three states including five facilities in California. Hines has been operating under a WDR, issued by Region 8, at our Irvine facility since 1990. Our thirty years of experience helped us to qualify as an individual discharger in Region 4's irrigated lands waiver program over the last two years. We are capable of meeting the requirements as an individual discharger as demonstrated by our high level of compliance at all site over the years.

Hines Nurseries Fallbrook facility 2500 Rainbow Valley Blvd Fallbrook CA 92028 consists of 261 gross acres of land of which 13 acres are leased. Hines Nurseries LLC 12621 Jeffrey Road Irvine CA. 92620 owns and operates 248 acres (see attached parcel numbers and location maps). The 13 leased acres are owned by Andre 1991 Separate Property Trust APN # 102-412-02,03,10,15,16.

Hines grows woody ornamentals and perennial plants in containers (see enclosed catalog). The crops and sizes of these crops changes throughout the year so delineation of crop by parcel is highly variable.

We estimate that there are approximately 209 irrigated acres at this site. Irrigation systems consist of overhead sprinkler, specialized overhead irrigation systems, drip irrigations systems and specialized propagation misting system irrigation. (see enclosed photos). Our annual water use is approximately 6 acft/ac/yr of which we get approximately 55% from the recapture and reuse of irrigation runoff.

In the late 1990's Hines constructed an above ground lined reservoir and irrigation runoff collection system at this facility (see enclosed photos). At this time the only water that leaves the facility is storm water that is allowed to exit around the closed collection system. The recycling system is by passed during storms so as not to allow discharge of reservoir water. There can be a random discharge from the site of irrigation runoff water but this would have to occur due to mechanical or electrical failures or for planned management of the recycled water chemistry (basically salinity). We have implemented many BMPs into this system and other operational systems on site including erosion control. An itemized list of BMPs is enclosed.

This facility incorporates slow release technology fertilizers in our totally soil-less container media. We do have and we do utilize liquid fertilizers in the irrigation system as needed (see attached list of materials and rates.). The site must maintain State (CDFA) mandated levels of cleanliness to operate. We utilize Integrated Pest Management methodologies as part of our BMPs. Pesticides are used on site and in fact are required under several California interior quarantines and several other state quarantine regulations. The site must also be maintained "free from" certain pests. We also have an ongoing herbicide program (both post and pre-emergent).

A list of pesticides used on site is enclosed. The facility is required under California regulations to report all pesticide usage monthly.

Hines distributes primarily regional plant products from the Fallbrook site. Our primary market area is southern California. Plant product on the ground at any one time at this facility can be up to 12 million equivalent units with a market value of 36-40 million dollars.

Please find enclosed site maps. No GPS coordinates were include since we only have a held recreation unit available.

Hines Fallbrook plans to work with Region 9 on developing it's MMP and QAPP in the near future. Having prepared these plans for Region 4 in the past we should have a good starting point when the time comes.

Hines Nurseries Fallbrook Best Management Practices

Runoff Water Recycling System: The site has been graded and piped/channeled to only allow irrigation runoff water to flow to collection points where it is conducted to a 2 million gallon geotech lined reservoir. Water is held and reused for irrigation over and over again. Approximately 55% of our total water usage comes from this system. There are several retaining basins built into this system to settle out heavy particulates. We have also investigated the use of PAM flocculents to remove sediment from the recaptured water.

The entire growing area is graveled to slow runoff, stop erosion and sedimentation. This system has recently been identified for installation of a back up electrical generator to further limit any possible over flow due to electrical outages. We also have on site a back up pump which can be installed rapidly in case of mechanical failure.

Fertilizer Management Plan: Hines incorporates slow release fertilizer technology into our various container media. This helps limit possible nutrient leachate. Hines also monitors crop fertilizer needs by conducting regular soil sampling, water testing and tissue analysis to determine actual crop fertilization needs. The use of recycled water which contains nutrients has also offset the need to add fertilizers. All fertilizer applications are given as written work orders and can only be applied as prescribed.

Irrigation Training: All irrigators have been trained on how and when to irrigate container grown plants. They have also received training on water conservation and regulatory compliance. This training is documented at least annually

Pest Management: Besides IMP methodologies being implemented this site has a staff Entomologist/ Pest Management Specialist on staff. Pest population monitoring and analysis is ongoing. This allows us proactive intervention and limits pesticide applications. All pesticide applicators have been trained on drift control and relationship of pesticide applications and water contamination. Our staff is active in new pest detection/ eradication protocol development with federal and state regulators. Hines is an advocate of addressing required utilization of certain pesticides in reference to other environmental regulations including water quality issues.

Ongoing BMP planning and Regulatory Services: We have on staff a California Registered Environmental Assessor who is in contact with both the University Of California Extension and other institutions looking into new BMP technologies. Our REA has been part of several RWQCB technical work groups for Basin plans and TMDL development with RWQCB where we have facilities located.

Hines Nurseries Fallbrook

- Hines Fallbrook is completely graveled to slow runoff flow, prevent erosion, cut down dust and significantly lower sediment in tail water. Notice the overhead irrigation system which is the predominate system at this site.



Hines Nurseries Fallbrook

- The site is graded to conduct all irrigation runoff and storm water runoff to strategic drainage points. Such as this drop structure



Hines Fallbrook

- A secondary storage reservoir for runoff



Hines Nurseries Fallbrook

- One of several liquid fertilizer injection systems on site. This is also a booster pump site for runoff water movement to main reservoir.



Hines Nurseries Fallbrook

- The main sedimentation basin. Sediment can be removed with skiploader as part of regular maintenance.



Hines Nurseries Fallbrook

- Drip irrigation system. One of several types of irrigation systems used on site. Hines plans to increase the use of drip irrigation in the future.



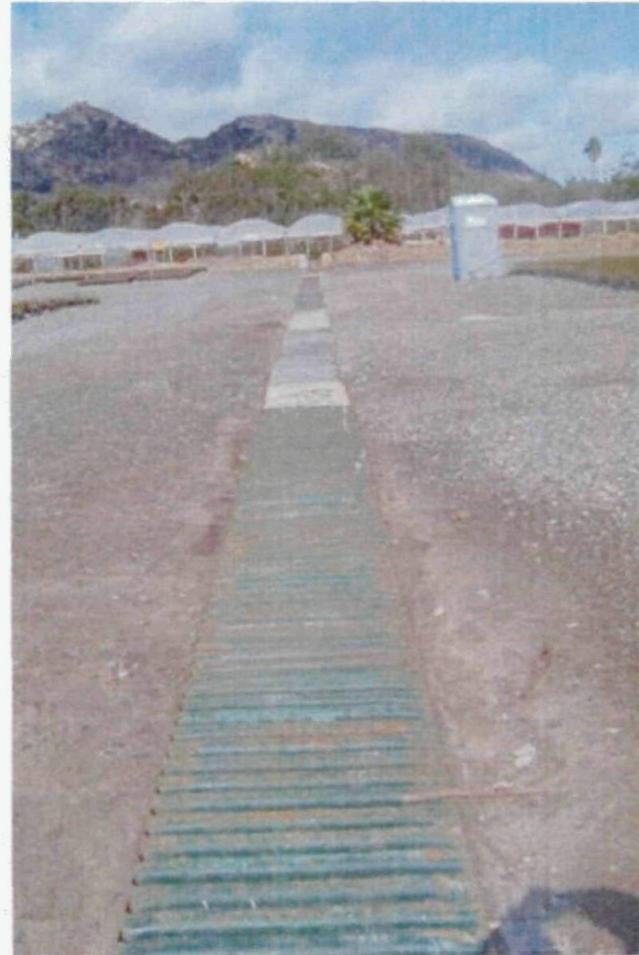
Hines Nurseries Fallbrook

- Another modified form of overhead irrigation is the misting heads used primarily in the propagation department. Similar systems are used in greenhouses located on site.



Hines Nurseries Fallbrook

- Part of the runoff water conduction system is the use of grated channels located around the facility.



Hines Nurseries Fallbrook

- Part of panoramic photo (1 of 3) of the main runoff water recycling reservoir. This above ground lined reservoir has a capacity of 2.5 million gallons of storage. It is connected to a pumping system and supplies approximately 55% of our water usage.



Hines Nurseries Fallbrook

- Middle view of recycling reservoir



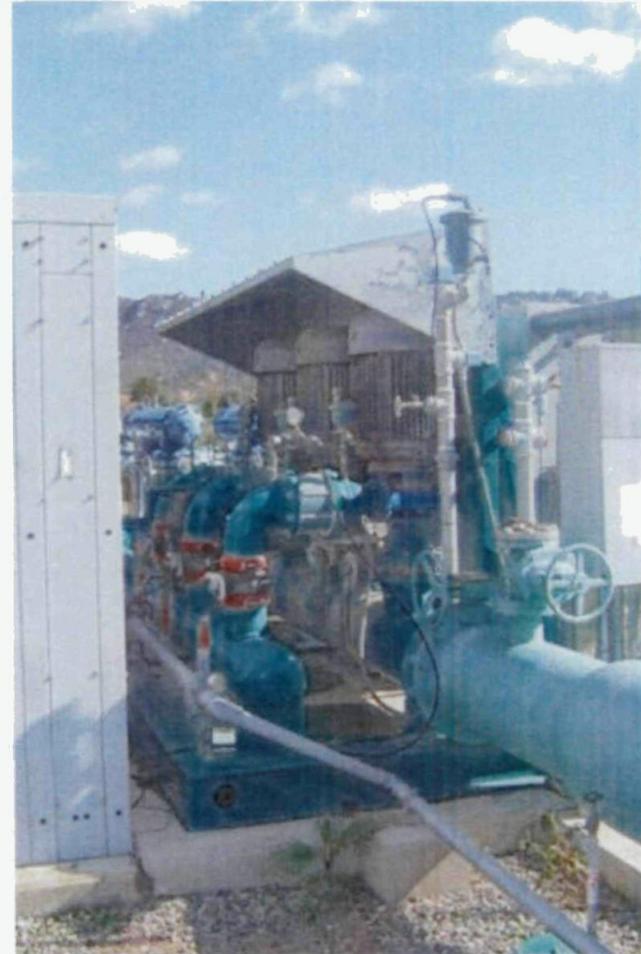
Hines Nurseries Fallbrook

- West side of recycling reservoir.



Hines Nurseries Fallbrook

- Recycling pumping station.



Hines Nurseries Fallbrook

- Main pumping and filtration system for delivery of recycled water to the field.



Hines Nurseries Fallbrook Site Maps

- Google vicinity map
- Satellite map outlined for site boundaries

- Site map with wells indicated



Google maps

[Get Directions](#) [My Maps](#)

[Print](#) [Send](#) [Link](#)



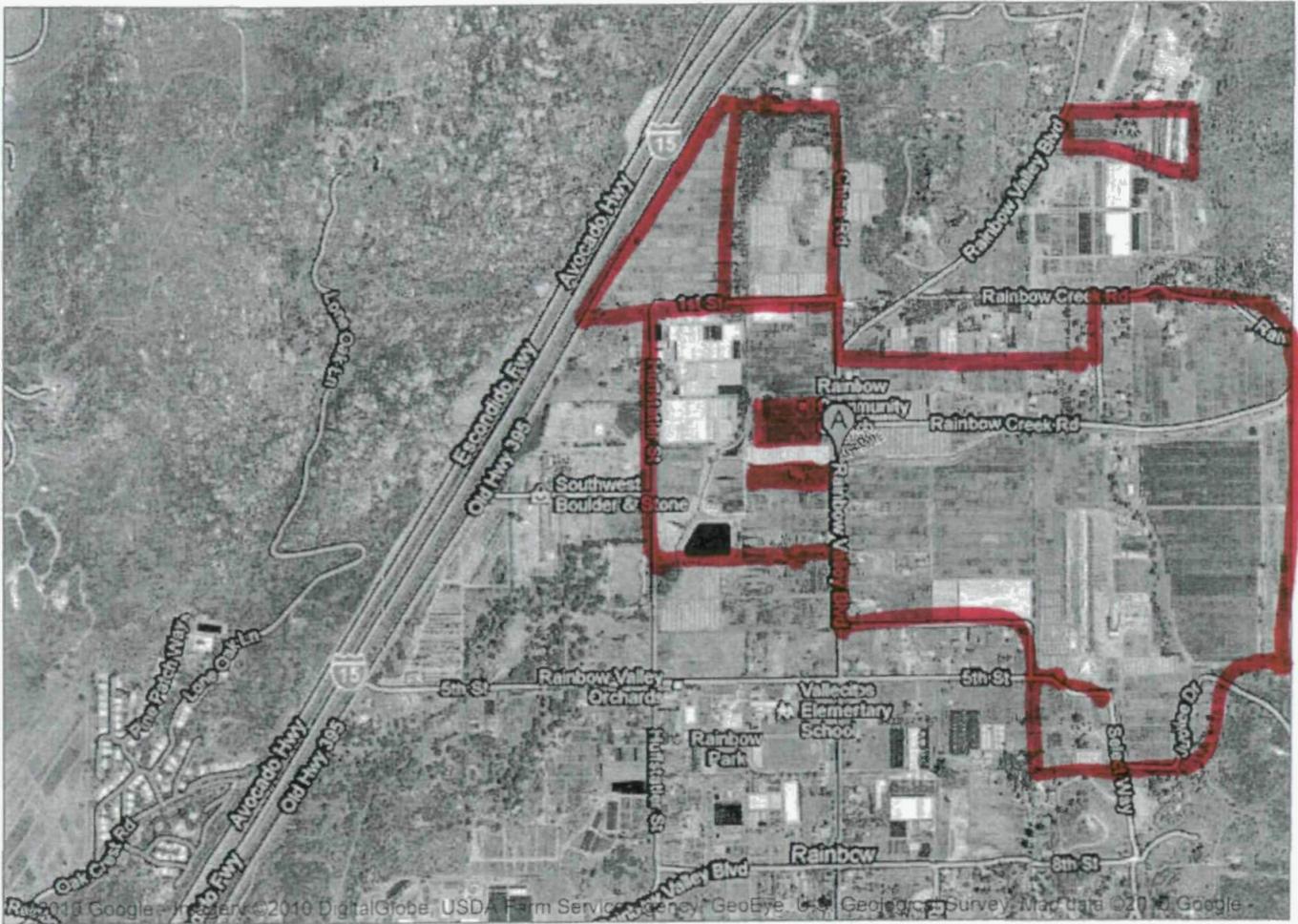
© 2010 Google - Imagery © 2010 DigitalGlobe, USDA Farm Service Agency, GeoEye, USA, GeoEye, Survey Map data © 2010 Google



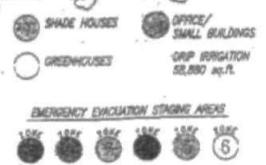
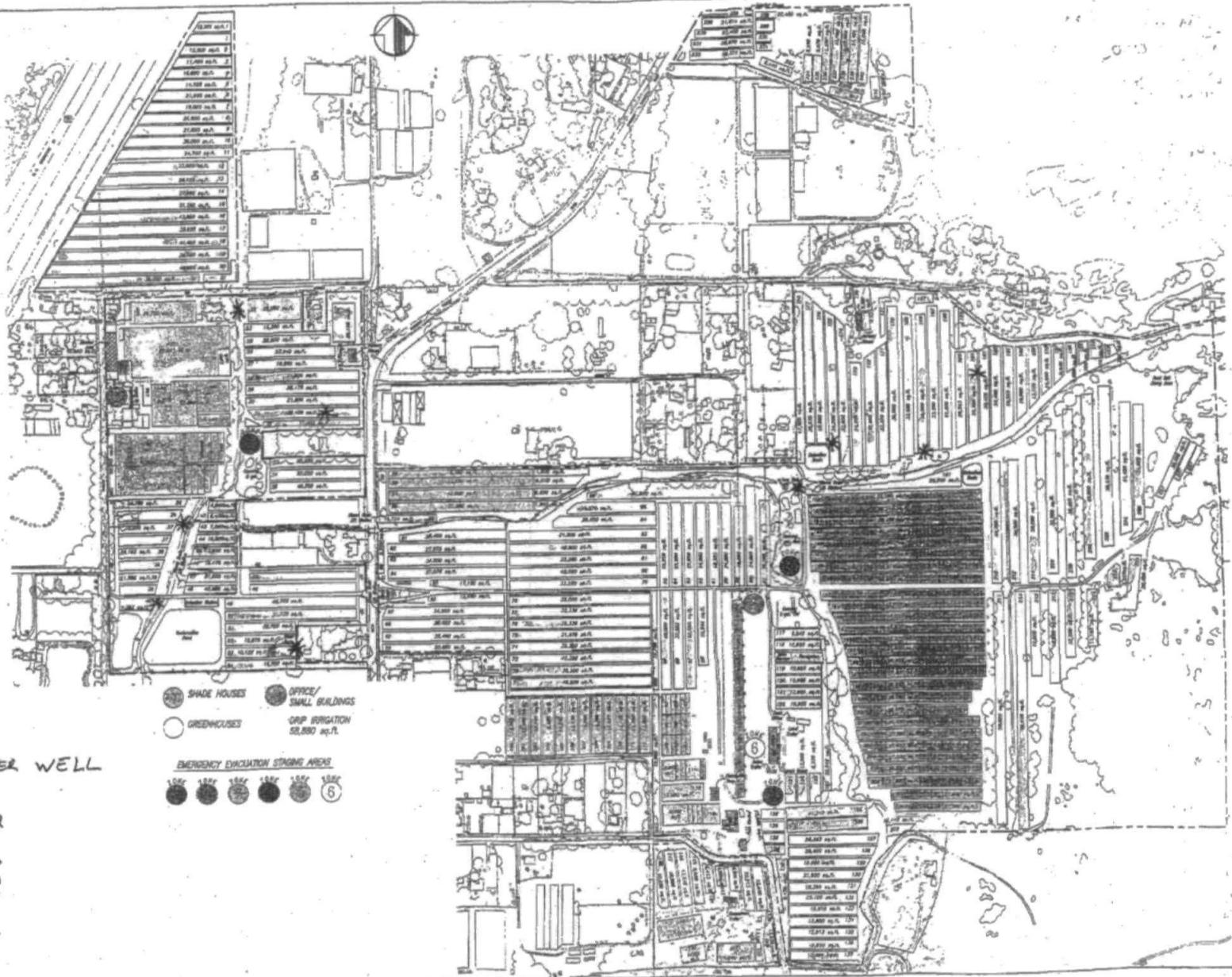
Google maps

[Get Directions](#) [My Maps](#)

[Print](#) [Send](#) [Link](#)



©2010 Google - Imagery ©2010 DigitalGlobe, USDA Farm Service Agency, GeoEye - Geographic Survey Map data ©2010 Google



* = WATER WELL

- BED # 22
- 31
- 36
- 40
- 54
- 180
- 175
- 168
- 163

Hines Nurseries Fallbrook

APN #s

From: Vance, Matt
Sent: Tuesday, April 13, 2010 11:19 AM
To: Sanders, Rick
Cc: Mayrhofer, Hubert; Gutman, George; DiFlorio, Rich
Subject: RE: Fallbrook Appraiser Parcel Numbers
There are a bunch of them:

- 102-340-47-00
- 102-700-08-00
- 109-310-10-00
- 102-412-20-00
- 102-240-16-00
- 102-240-21-00
- 102-430-13-00
- 102-340-48-00
- 102-222-05-00
- 109-210-15-00
- 102-412-09-00
- 102-430-02-00
- 109-210-11-00
- 102-340-07-00
- 102-340-08-00
- 109-310-09-00
- 102-320-29-00
- 102-320-44-00
- 102-320-32-00
- 102-412-18-00
- 102-240-04-00
- 102-222-06-00
- 102-430-34-00

Matt

From: Sanders, Rick
Sent: Tuesday, April 13, 2010 11:15 AM
To: Vance, Matt
Cc: Mayrhofer, Hubert; Gutman, George; DiFlorio, Rich
Subject: FW: Fallbrook Appraiser Parcel Numbers

Matt,
George Gutman needs the Fallbrook Parcel Numbers to do some maintenance work for Fallbrook. Please see below.
Thanks,

Rick Sanders
Treasury Analyst
Hines Nurseries LLC

Pesticides and Fertilizer List

**Hines Nurseries Fallbrook Facility
2500 Rainbow Valley Blvd
Fallbrook CA**

DESCRIPTION	NAME	ACTIVE INGREDIENT	EPA REG.
INSECTICIDE	ACEPHATE 90 % SP	ACEPHATE	81964 - 3
FUNGICIDE	ACTINOVATE SP	STREPTOMYCES LYDICUS	73314-1
INSECTICIDE	ADEPT	CHLOROPHENYL	400-469
FUNGICIDE	AGRIMYCIN 17	STREPTOMYCIN SULFATE	55146-96
FUNGICIDE	ALLIETTE WDG	ALLUMINIUM TRIS	432-890
OTHER	ANTISTRESS 550	ACRYLIC POLYMERS	NO EPA
ADJUVANT	AQUA GRO	ALKOXYLATED POLYOLS	EXEMPT PER 40 CFR
HERBICIDE	AQUA MASTER	GLYPHOSATE	524-343
INSECTICIDE	ARIA	FLONICAMID	279-3287
INSECTICIDE	ASTRO INSECTICIDE	PERMETHRIN	279-3141
PGR	ATTRIMEC	DIKEGULAC-SODIUM	2217 - 776
INSECTICIDE	ATTAIN TR	BIFENTHRIN	499-376
INSECTICIDE	AVID 0.15 EC	ABAMECTIN	100-896
FUNGICIDE	AVALON WDG	ALUMINUM TRIS	61842-9-72112
FUNGICIDE	BANNER MAXX	PROPICONAZOLE	100-741
HERBICIDE	BARRICADE 4 FL	PRODIAMINE	100-1139
OTHER	BLAZON BLUE (Paint)	NONE	NO EPA
PGR	B-NINE WSG	DAMINOZOLE	400-478
PGR	BONZI	PACLOBUTRAZOL	100-996
RODENTICIDE	MAKI MINI-BLOCK	BROMADIOLONE - SUPERCAID	7173-188
INSECTICIDE	BOTANIGARD ES	BEUVARIA BASSIANA	70810-6
FUNGICIDE	CAMELOT	COPPER SALTS	1812-381-499
ADJUVANT	CAPSIL	POLYETHER - POLYMETHYLSILOXANE	EXEMPT PER 40 CFR 180.1001
FUNGICIDE	CEASE	BACILLUS SUBTILLIS	69592 - 68539
FUNGICIDE	CHAMP FORMULA 2	COOPER HYDROXIDE	55146-64
FUNGICIDE	CHIPCO 26 GT	IPRODIONE	432-888-59807
INSECTICIDE	CITATION	CYROMAZINE	67545-AZ-1
PGR	COMPRESS WSG	DAMINOZIDE	400-478-72112
FUNGICIDE	CLEARYS 3336 WP	BENZIMAZDE	1001-63
FUNGICIDE	CLEVIS	ETHYLENE BISDITHIOCARBAMATE	62719-418-72112
INSECTICIDE	CHLORPYRIFOS 4E	CHLORPYRIFOS	66222 - 19 - 73220
PGR	CONFIGURE PGR	N-PHENYLMETHYL-1H PURINE-6-AMINE	62097-19-82917
INSECTICIDE	CONSERVE SC	SPINOSAD	62719-291
PGR	CYCOCEL	CHLORMEQUAT	241-74-59807
FUNGICIDE	CYGNUS FUNGICIDE	KRESOXIM-METHYL	7969 - 124
FUNGICIDE	DACONIL WEATHERSTICK	CHLOROTHALONIL	50534-209-100
SNAIL BAIT	DEADLINE MPS	METALDEHYDE	64-864
INSECTICIDE	DECATHLON 20 WP	CYFLUTHRIN	3125-430-59807
FUNGICIDE	DECREE 50 WDG	FENHEXAMID	66330-35-AA
RODENTICIDE	DEER & RABBIT REPELLENT	PUTRESCENT EGG SOLIDS	N / A
INSECTICIDE	DIMETHOATE 2.67 EC	DIMETHOATE 0,0 DIMETHYL	34704 - 489
INSECTICIDE	DIPEL PRO DF	BACILLUS THURINGIENSIS	73049-39
INSECTICIDE	DISCUS	CYFLUTHRIN	432-1392-59807
INSECTICIDE	DISTANCE IGR	PYRIPROXYFEN	59639-96
FUNGICIDE	DITHANE T&O 75 DF RAINSHIELD	MANCOZEB	707-180
INSECTICIDE	DURAGUARD ME	CHLORPYRIFOD	499-367
INSECTICIDE	DURSBAN 50 W	CHLORPYRIFOS	62719-72
FUNGICIDE	EAGLE 40 WP	MYCLOBUTANIL	62719-417
INSECTICIDE	ENDEAVOR	PYMETROZINE	100-913
HERBICIDE	DEVRIKOL 50 DF	NAPROPAMIDE	70506-38
HERBICIDE	ENVOY	CLETHODIM	59639-78

STRUCTURAL	EVERCIDE EC	ESFENVALERATE	1021-1641-72113
MANAGE	FASCINATION	N-PHENYLMETHYL	73049-41
INSECTICIDE	FLAGSHIP 25 WG	THIAMETHOXAM	100-955
INSECTICIDE	FLORAMITE 50 W	BIFENAZATE	400-508
PQR	FLORAZOL	PLACLOBUTRAZOL	100-896-72112
PQR	FLOREL	ETHEPHON	54-705-8-ZA
FUNGICIDE	FOSPHITE	MONO-AND DI POTASSIUM SALTS	68573-2-AA
HERBICIDE GR	FREEHAND 1.75 G	DIMETHENAMID	7969 - 273
HERBICIDE	GALLERY 75 DF	ISOXABEN	62719-145
PQR	GIB-GRO 4L	GIBERLLIC ACID	55146-62
INSECTICIDE	GNATROL	BACILLUS THURINGIENSIS	73049-11
FUNGICIDE	HERITAGE	AZOXYSTROBIN	100-1093
OVICIDE / MITICIDE	HEXIGON DF	HEXYTHIAZOX	10163 - 251
INSECTICIDE	IMIDAN 70 W	PHOSMET N	10183 - 169
FUNGICIDE	IPRO 2SE	IPRODIONE	73220 - 14
INSECTICIDE	JUDO	SPIROMESIFEN	432-1280-69807
FUNGICIDE	HOIST	MYCLOBUTANIL	62719-417-72112
INSECTICIDE	KELTHANE 50 WSP	DICOFOL, TRICHLOROETHANOL	62719-414
HERBICIDE	GLYPHOSATE PRO 4	GLYPHOSATE	72112 - 4
FUNGICIDE	LEGEND	CHLOROTHALONIL	1001 - 85
INSECTICIDE	LUCID	ABAMECTIN	81578-3
INSECTICIDE	MALATHION 8E	MALATHION	34704-452
INSECTICIDE	MALATHION 50 % EMULSIFIABLE	MALATHION	655 - 598
HERBICIDE	MANAGE	HALOSULFURON-METHYL	524-485
FUNGICIDE	MAINSAIL 6.0 F	CHLOROTHALONIL	72112-6
INSECTICIDE	MARATHON 1% G	IMIDACLOPRID	3125-452-69807
INSECTICIDE	MARATHON 60 WP	IMIDACLOPRID	3125-492-69807
INSECTICIDE	MARATHON II	IMIDACLOPRID	3125-549-69807
INSECTICIDE	MAVRIK AQUAFLO	TAU-FLUVALINATE	2724-478
FUNGICIDE	MEDALLION	FLUDIOXONIL	100-769
FUNGICIDE	MEFENOXAM 2 AQ	MEFENOXAM	70252 - 11 73220
SNAIL BAIT	MESUROL 75 WP	METHIOCARB	10183-231
SNAIL BAIT	MESUROL PRO	METHIOCARB	3125-288-10163
SNAIL BAIT	METALDEHYDE 3.5	METALDEHYDE	5481-91
SNAIL BAIT	METAREX 4%	METALDEHYDE	7173 - 257
INSECTICIDE	M-PEDE	POTASSIUM SALTS OF FATTY ACIDS	62719 - 515
FUNGICIDE	MILSTOP	POTASSIUM BICARBONATE	70870-1-68539
DESINFECTANTE	NACOSSAN	ALKYL	42188-3
ADJUVANT	NO FOAM A	ALKYL PHENO ETHOXYLATE	11656-60086-ZA
ADJUVANT	NO FOAM B	OCTAL PHENOXY POLY ETHOXY	CA-1050775-60008-A
ADJUVANT	NU FILM 17	MENTHENE	72-50001-AA
ADJUVANT	NUT BUFFER	PHOSPHORIC ACID	11656-60022 AA
HERBICIDE GR	O H 2	OXYFLUORFEN, PENDIMETHALIN	538-172
INSECTICIDE	OIL ULTRAPURE	PETROLEUM OIL	69526-6-499
INSECTICIDE	OIL-415	PETROLEUM OIL	34704-727
INSECTICIDE	ORTHENE TT&O	ACEPHATE	59639-91
INSECTICIDE	PEDESTAL	NOVALURON	66222-40-400
FUNGICIDE	PEGASUS L	CHLOROTHALONIL	60063-7-61943
FUNGICIDE	PAGEANT	PYRACLOSTROBIN	7969 - 251
FUNGICIDE	PHYTON 27	COPPER SULPHATE PENTAHYDRATE	49538-2
FUNGICIDE	PHYTON 27 NEW DIMENSION	COPPER SULPHATE PENTAHYDRATE	49538-3
FUNGICIDE	PROPICONAZOLE 14.3	PROPICONAZOLE	66222 - 41 - 73220

FUNGICIDE	PROTECT DF	BISDITHIOCARBAMATE ZINC AND MANGANESE	1001-77
INSECTICIDE	PYLON	CHLORFENAP	241-374-69807
INSECTICIDE	PYRETH-IT	PYRETHRINS, PIPERONYL	1021-1091-499
INSECTICIDE	PYRELLIN E.C	PYRETHRINS, ROTENONE	30573 - 2
RODENTICIDE	P.C.Q PELLETTED RODENT BAIT	DIPHACINONE	12455 - 50003AA
HERBICIDE	REWARD	DIQUAT DITROMIDE	100-1091
FUNGICIDE	RHAPSODY AS	BACILLUS SUBTILLIS	69592-10
FUNGICIDE	ROOTSHIELD	TRICHODERMA HARZIANIUM	68539-3
INSECTICIDE	SAFARI 20 SG	DINOTEFURAN	33657-16-59639
INSECTICIDE	SANMITE	CHOROPYRIDAZIN	81880 - 5 10163
INSECTICIDE	SCIMITAR	LAMBDA-CYHALOTHRIN	100-1088
HERBICIDE	SCYTHE	PELARGONIC ACIDS, RELATED FATTY ACIDS	62719-529
FUNGICIDE	SEGWAY FUNGICIDE	CYAZOFAMID	71512-13-279
INSECTICIDE	SEVIN SL	CARBARYL	432-1227-72112
HERBICIDE GR	SHOWCASE	TRIFLURALIN, ISOXABEN, OXYFLUORFEN	62719-516
SNAIL BAIT	SLUGGO BAIT	IRON PHOSPATE	67702-3-11656
SNAIL BAIT	SLUG - FEST ALL WEATHER F	METALDEHYDE	71096-4
HERBICIDE GR	SNAPSHOT 2.5 G	TRIFLURALIN, ANDE ISOXABEN	62719-175
FUNGICIDE	SPORATEC	ROSEMARU OIL, CLOVE OIL, THYME OIL	N / A
FUNGICIDE	STATURE DM	DIMETHOMORPH	241-419-67690
FUNGICIDE	SUBDUE GRANULAR	METALAXIL	100-794
FUNGICIDE	SUBDUE MAXX	MEFENOXAM	100-786
INSECTICIDE	SUFFOIL - X	PETROLEUM OIL	48813 - 1 - 68539
PGR	SUMAGIC	UNICONAZOLE-P	59639-37
HERBICIDE	SUREGUARD	FLUMIOXAZIN	59639 - 120
HERBICIDE	SURFLAN AS	ORYZALIN	70506-44
INSECTICIDE	TALSTAR S	BIFENTHRIN	279-3155
INSECTICIDE	TALUS 40 SC	BUTYLIMINO, ISOPROPYL	71711-20-67690
INSECTICIDE	TAME 2.4 EC	FENPROPATHRIN	59639-77
FUNGICIDE	TERRACHLOR 400 FLO	PENTACHLORONITROBENZENE	400-454
FUNGICIDE	TERRAGUARD 8C	TRIFLUMIZOLE	400 - 521
FUNGICIDE	TERRAGUARD 50 W	TRIFLUMIZOLE	400-433
INSECTICIDE	TETRASAN 5 WDG	ETOXAZOLE	59639-108
PGR	TOPFLOR PGR	FLURPRIMIDOL	67690-20
FUNGICIDE	TRANSOM 4.5 F	THIOPHANATE-METHYL	72112 - 4
INSECTICIDE	TRIACT 70	CLARIFIED HYDROPHOBIC EXTRACT OF NEEEM OIL	70051-2-69807
INSECTICIDE	TRISTAR 70 WSP	ACETAMIPRID	8033-22-1001
INSECTICIDE	TRISTAR 30 SG	ACETAMIPRID	8033-91-1001
FUNGICIDE	T-BIRD 4.5 L	THIOPHANATE-METHYL	81943-4
RODENTICIDE	WILCO GOPHER GETTER AG BAIT	STRYCHNINE ALKALOID	
FUNGICIDE	ZEROTOL	HYDROGEN DIOXIDE	70229-1
FERTILIZER	ALUMINUM SULFATE (powdere)		
FERTILIZER	CALCINIT 15.5-0-0		
FERTILIZER	HI-CAL SPECIAL 15.0.15		
FERTILIZER	UREA 48.0.0 LOW BIURET		
FERTILIZER	20-20-20		
FERTILIZER	20-10-20		
FERTILIZER	HIGH CALCIUM HYDRATED LIME		
FERTILIZER	FERROUS SULFATE (monohydrated)		
FERTILIZER	14% ZINC CHELATE		
FERTILIZER	13.2% IRON CHELATE		
FERTILIZER	FERROS SULFATE		