HISTORICAL USE OF CHEMICALS

at the Bend Pine Nursery

http://www.fs.fed.us/r6/centraloregon/projects/units/desso/nursery/adminrecord/chemicalsused.shtml

A. Chemicals Utilized to Control Fusarium Root Rot

1949	Aluminum Sulphate
	Chloropicrin (CP)
1949-50	СР
	Sulphur
	Dowfume W-85 (85% Ethylene Bromide)
	Dowfume MC-2 (98% Methyl Bromide & 2% CP)
	Shell DD
	Shell OS-840
	Note: Adverse side effect has been removal of all mycorrhiza, a
	beneficial fungi.
1950-51	CP (greatly reduced due to mycorrhiza depletion)
	Allyl Alcohol
1952-53	Semesan
	Arasan
	Cersasan
	Firmate
	AL SO-4
	FE SO-4
	CP
	Sucrose, sodium fluoride, glucose, citric acid, oxalic acid
	Trichoderma, Aclinomyces, Pencillium
1954-55	AL-2 SO-4
	Aluminum Sulphate
	Nitrate
	Orthocide 50 - fungicide Ortho Seed Protector and Treater
1055 50	
1957-58	Orthocide 75
	Terrilite
	Aluminum Sulphate
	Ammonium Phosphate Note: Denser plenting and more water reducing soil
	Note: Denser planting and more water reducing soil temperatures have helped.
1061 60	•
1961-62	Note: Intensive soil management has been best control for root rot.
	No chemicals used at this time.

1971-72	MBCP (methyl bromide and cholorpicrin)
1972-73	Fumigation (?)
	Sulphur
1973-74	Fumigation (?)
1981-82	Note: 7,280 pounds of fumigant was used for 1982 sowing.
	MBCP (67%-33% ratio)
1984-85	Vapam (Metam-sodium)
	Dazonet (Badamid granular)
	MBCP
1985-86	Bravo 500
	Daconil 2787 (chlorothalonil) Parlets 50 ym (haramyl)
	Benlate 50-wp (benomyl) MBCP (67%-33%) ratio - 350 lbs per acre)
1986-87	MBCP
1700-07	Basamid
	Captan
	Benlate
1987-88	MBCP (treated by NW Pesticide Co. do to high hazard
	handling)
	Basamid
1988-89	MBCP
	Basamid
	Benlate
1000 00	Captan
1989-90	MBCP Benlate
1990-91	MBCP
1990-91	Benlate
1991-92	Bsamid
1771-72	OSU study - EPA requests info on impact if MBCP is
	prohibited.
1992-93	MBCP
1993-94	Benlate 50 DF
	Captan 50 WP
	Clearly 3336
1994-95	MBCP
	Basamid trial with MBCP for alternatives to MB.
1995-96	MBCP
1996-97	No fumigation - trials continue

B. Chemicals Utilized to Control Weeds

1949	Shell #10
	Standard Oil "Stoddard"
1951-52	Shell #10 CMU (DuPont) Kills to roots and inactivates soil for 6 months.
1952-53	Shell #10 no longer available - similar product, used as a paint base, was sprayed and proved more effective, but burned 2-0 transplant stock. 2-4D
1955-56	Orthocide 75
	Orthocide 50
	Dithane
1957-58	Orthocide 75
	Terrilite
	Aluminum Sulphate
	Ammonium Phosphate
1958-59	Mylone
10.60 61	Acti-Dione
1960-61	Mineral Spirits from Shell Oil Co.
1961-62	Mineral Spirits
	Amazine Trizone
1070 70	
1978-79	Dymid Mowdown
1001 02	
1981-82	Dymid Mowdown
1982-83	Dymid
1702-03	Mowdown
1983-84	Herbicide for weed control banned in Region 6.
1990-91	Goal 1.6E. Herbicide usage reinstated.
1991-92	Goal 1.6E
1994-95	Endurance
177170	Goal 1.6E
1997-98	Goal 1.6E

C. Chemicals Utilized to Control Pests (Birds, Mammals, Insects)

1954-55	Two compounds from California Spray Chemical Co. to eradicate Doves.
1959-60	Morkit - to eradicate birds. Arasan - to prevent animal damage. Roplex - to prevent animal damage.
1960-61	Arasan
1961-62	Thiram - animal repellent
1986-87	Sevin - insecticide Trapping and shooting to control birds and rodents - no chemicals used.

D. Chemicals Utilized for Seed Treatment

1955-56	Orthocide 75
1959-60	Captan 75 (fungicide)
1960-61	Captan 75
	Anthroquinone (bird repellent)
	Mowit
	Latex
1961-62	Captan 75
1974-75	Dymid
	Enide

E. Chemicals Utilized as Soil Amendments

1951-52	Test #1 Super phosphate & ammonium sulfate Super phosphate & sodium nitrate
	Super phosphate & lime
	Test #2 Super phosphate
	N-K
	Merculine
	Carbon disulfide
	Test #3 P-162 in water solution
1956-57	Aluminum sulphate
1959-60	Commercial Fertilizer 16-20-0
1960-61	16-20-0
1961-62	16-20-0
1971-72	34-0-0, 27-12-0 & sulfur
1984-85	Change to organic amendments include sawdust, mint sludge, manure, and Bendorgunite (sewer sludge)
1985-86	Nitrogen (ammonium sulphate, urea & potassium nitrate)

1988-89	Sulfur
	16-20-0-14
	0-45-0
	Peter's foliar fertilizer
	Elemental sulfur
1989-90	16-20-0-14
	Calcium nitrate
	21-0-0-24
1993-94	21-0-0-24
	Magnesium sulfate
	Calcium nitrate
	16-20-0-15
1995-96	5-50-17
	Micorrhizae spores (Rhizopgen)
1996-97	Liquigrow
	Foliar phosphate
	16-20-0-15

F. Chemicals Utilized to Control Miscellaneous Problems

1961-62	Rootone - to control transplant shock
	Rootex 59 - to control transplant shock
	Rutex W-3 - to control transplant shock
1988-89	Bravo 500 - to control Phoma, tip blight
	Benlate 50_W - to control Phoma, tip blight
1989-90	Bravo foliar drench - to control Phoma
1993-94	Bravo 720 - to control Phoma