

FOREST TREE NURSERY SLIDES - Kenneth A. Armson R.P.F.

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.thunder bay	spruce white	2+2		09/07/59	general view of transplant beds	1
can.ont.thunder bay	spruce white	2+2		09/07/59	close-up of transplants in #1	2
can.ont.midhurst	spruce white	2+2	white grub damage	07/05/60	general view of white grub damage	3
can.ont.orono	pine red	2+2	nutrient deficiency	07/15/60	lime-induced chlorosis, general view	4
can.ont.orono	pine red	2+0	transplanting	05/15/59	holland transplanter,close-up	5
can.ont.orono	pine red	2+0	transplanting	05/15/59	holland transplanters, in pairs, generalview	6
can.ont.orono	spruce white	3+0	nutrient deficiency - potassium	08/20/60	three seedlings - normal, two stages of potassium deficiency	7
can.ont.chapleau	pine,jack	1+0	sawdust used in soil preparation	09/15/59	comparative growth of seedlings - large where no sawdust applied, small where heavy application made in soil preparation	8
can.ont.chapleau	pine,jack	1+0	fall colouring	09/30/59	purple colouring in fall after frost in pine; a normal feature not to be confused with phosphorus deficiency	9
can.ont.st.williams	spruce,white	20	nutrient deficiency-nitrogen	08/15/57	nitrogen chlorosis showing as a "dished bed" in seedbeds	10
can.ont.chapleau	pine,jack	2+0	general view	09/15/59	general view	11
can.ont.orono			fertilization	06/15/60	dragon fertilization tank on irrigation system	12
can.ont.swastika			irrigation	06/15/60	no.70 rainbirds irrigating seedbeds	13
can.ont thunderbay		1+0	seedbeds	06/09/58	germinating seedbeds, with shades from overwinter	14
can.ont.dryden			soil treatment	09/15/59	peat application @ 100 cu.yds./ac.	15
can.ont.orono	pine,red	2+2	nutrient deficiency	08/15/60	lime-induced chlorosis,healthy on right chlorotic on left	16
can.ont.dryden			soil treatment	09/15/59	disking in the peat	17
can.ont.midhurst		1+0	seedbeds	04/15/54	germinating seedbeds, n.b. sides, rolled shades and straw mulch	18
can.ont.st.williams	spruce, white	2+0	transplanting	04/15/56	machine transplanted field	19
can.ont.st.williams	pine,red	2+0	transplanting	05/15/56	holland 2-row transplanter	20
can.ont.st.williams	spruce,white	1+0	fertilizer trial	05/10/60	Expt.A.60-N-1 lot 41 nitrogen trial	21
can.ont.st.williams	spruce,white	2+0	nutrient deficiency, nitrogen	07/15/57	chlorosis and dishing in bed	22
can.ont.chapleau	pine red	2+0	seedbeds	08/15/59	general view showing chlorosis on edge and high fertility in centre	23
can.ont.midhurst	pine red	2+1	irrigation	06/15/58	irrigation gun	24
can.ont.orono	spruce,white	3+0	nutrient deficiency, potassium	08/15/60	potassium deficiency,healthy and two degrees of chlorosis	25
can.ont.orono	spruce,white	3+0	nutrient deficiency, potassium	08/15/60	seedbeds showing chlorosis from potassium deficiency	26
england,kennington,oxfor	spruce,sitka	1+0	fertility trial	09/15/55	Forestry Commission fertility trials	27
england,kennington,oxford			mulch trials	09/15/54	Forestry mulch trials using grits of different sizes and colours	28
can.ont.st.williams	spruce,white	2+0	nutrient deficiency, phosphorus	08/04/60	phosphorus purpling in shoots of seedlings	29
can.ont.st.williams	spruce,white	2+0	fertilization trials	08/20/60	nitrogen fertilization trial A-60-N1,control on left, 100k/ha on right	30
can.ont.orono	pine, red	2+1	nutrient deficiency	08/15/60	lime-induced chlorosis	31
england,kennington,oxfor	spruce,sitka	1+1	fertilization	09/15/55	trial using hopwaste	32
can.ont.orono	pine,red	2+1	nutrient deficiency	08/20/60	lime-induced chlorosis	33
usa.mi.east lansing	spruce,white	2+1	nutrient deficiency	09/15/58	nitrogen chlorosis in production beds	34
can.ont.st.williams	spruce,white	1+0	production beds	10/15/59	regular beds with new fertilization schedule	35
can.ont.midhurst	hardwoods		storage,heeling-in	04/15/54	normal storage	36
can.ont.orono	pine,red	2+1	nutrient deficiency	08/15/60	potassium deficiency	37
can.ont.st.williams	spruce,white	2+0	transplanting	07/20/60	summer transplanted (july) seedlings	38
can.ont.chapleau	spruce,white	2+0		09/15/59	average seedlings extracted n.b.scale	39
can.ont.orono	spruce,white	2+2	lifting	09/20/56	mechanical lifting,n.b.yellow chlorosis in shoots indicative of potassium deficiency	40
can.ont.midhurst	spruce,white	2+0	seedlings in bed	05/15/53	general view of seedbeds n.b.healthy look of stock	41
can.ont.kemptville			mulching	04/20/57	one of the first grit mulching trials in ontario	42
can.ont.chapleau			green cropping	09/11/59	bitter blue lupin sown as a plow down green manure	43
can.ont.chapleau			green crop	09/20/59	bitter blue lupin,close-up of #44	44
can.ont.chapleau	pine,jack	1+0	sawdust added to soil	09/15/59	effect of heavy addition of sawdust on seedlings n.b. they are smallbut not chlorotic i.e. their growth rates have been slow from germination	45
can.ont.chapleau	pine, jack	1+0	sawdust not added to soil	09/15/59	no sawdust added, n.b. large seedlings and green colour.c#45	46
can.ont.orono			acidification	09/15/60	acid injection system in pump house	47
can.ont.dryden			peat preparation	09/15/59	shredding peat prior to application on the fields	48
can.ont.dryden			peat application	09/15/59	disking in the shredded peat	49
can.ont.swastika			clearing land	06/04/60	cleared land and windrowed slash	50
can.ont.midhurst	pine,jack	2+0	deficiency	09/15/60	lime-induced chlorosis	51
can.ont.st.williams	spruce,white	1+0	mulch	09/11/61	seedlings with mulch application after sowing(fall)	52
can.ont.st.williams			covering seedbeds	05/10/61	manual operation of covering seedbeds	53
can.ont.st.williams			mulching	05/10/61	mulching with straw by hand	54
can.ont.st.williams			forming seedbeds	05/10/61	seedbeds for black locust sown in spring	55
can.ont.st.williams	spruce,white	2+0	transplanting	05/15/61	six-row transplanter	56
can.ont.swastika			shade application	10/10/60	laying shades to hold the pine needle mulch on beds	57

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.st.williams			seedbed preparation	05/15/60	rolling seedbeds by hand	58
can.ont.moonbeam	spruce,white	2+1	transplants	08/20/61	erosion in transplant lines	59
can.ont.st.williams	spruce,white	2+0	transplanting	05/15/61	six-row transplanting machine	60
can.ont.st.williams		0	sowing seed	05/15/61	sowing seed by hand,demonstration	61
can.ont.st.williams	spruce,white	2+0	transplanting	05/15/61	yale board transplanting by hand	62
can.ont.st.williams	spruce,white	2+0	transplanting	05/15/61	yale board transplanting by hand	63
can.ont.st.williams	spruce,white	2+0	transplanting	05/15/61	filling yale board	64
can.ont.st.williams	spruce,white	2+0	transplanting	05/10/61	seedlings transplanted by the forestry class of 6T1, n.b. the seedlings with the roots up!	65
can.ont.st.williams			lifting	04/15/62	mechanical tree lifter	66
can.ont.st.williams			seedbed preparation	04/15/62	rolling seedbeds	67
can.ont.st.williams			transplanting	04/15/62	yale board	68
can.ont.st.williams			sowing seed	04/15/62	sowing seed with a Gandy machine	69
can.ont.st.williams	pine,jack		fall purpling	04/15/62	difference between jackpine and red pine	70
can.ont.st.williams		0	forming and rolling seedbeds	04/15/62	old style forming of beds	71
can.ont.swastika	pine, white		disease,snow mold	05/15/62	snowmold in pine	72
can.ont.swastika	pine white	3+0	disease	05/15/62	snowmold in seedbeds	73
can.ont.midhurst	pine red	2+1	irrigation	06/15/63	large irrigation gun	74
can.ont.dryden			buildings	09/15/59	pole barn	75
can.ont.midhurst	pine,red	2+0	transplanting	05/15/60	newly transplanted field	76
can.ont.st.williams	spruce,white	2+0	transplants	07/20/60	newly summer transplanted seedlings	77
can.ont.orono			acid injection system	08/15/61	first installation of an automated acid injection system in an Ontario nursery R.D.Carman main contributor	78
can.ont.chapleau	spruce,white	2+0	mulching, lack of mulch results in "caking"	09/15/59	splashing of fine soil around seedlings from irrigation water	79
can.ont.midhurst	spruce,white	2+0	irrigation	05/15/56	large irrigation gun-totally oversized	80
usa.mi.east.lansing	pine,red	2+0	seedbeds	09/15/58	band sown seedbeds n.b. chlorosis	81
can.ont.dryden			nursery establishment	09/15/59	R.D.Carman examing soil on the site of the new nursery, n.b.existingvegetation	82
can.ont.dryden			peat shredding	09/15/59	shredding peat prior to application on the first seedbeds	83
can.ont.swastika			mulching	09/28/61	rotary mulcher built at the nursery	84
can.ont.swastika			mulching	09/28/61	closeup of the rotary head of the mulcher	85
can.ont.swastika			fertilization	09/28/61	gandy fertilizer spreader	86
can.ont.swastika		0	mulching	09/28/61	mulching seedbeds with rotary spreader using sawdust	87
can.ont.midhurst	pine,red		seedbeds	05/15/54	seedbeds n.b.short beds(manual not machine treated) and the Skinner irrigation system	88
can.ont.st.williams			fertilization	04/25/62	first use of anhydrous ammonia in the preparation of transplant land	89
can.ont.st.williams			fertilization	04/25/62	closeup of the injection tines of the ammonia spreader	90
can.ont.orono	spruce,white	2+1	weeding	07/20/64	danish mechanical weeder, scuffling and blowing out the weeds	91
can.ont.orono			weeding	07/20/64	general view of danish machine	92
can.ont.orono			weeding	07/20/64	closeup of the tines and the airblower	93
can.ont.thunder bay			seeding	05/15/63	drill seeder in action	94
can.ont.thunder bay			seeding	05/20/63	closeup of the shoes of the seeder	95
can.ont.thunder bay			seeding	05/20/63	fertilizer bander in front of seeder	96
can.ont.thunder bay			seeding	05/20/63	fertilizer bander shoes on seeder	97
can.ont.thunder bay			seeding	05/20/63	covering shoes of the seeder	98
can.ont.swastika	pine,jack		winter "purpling"	10/15/62	normal purpling of jack pine after thwe onset of the first frosts	99
can.ont.thunder bay	pine,jack	3+0	pruning roots	06/15/63	vertical root pruner in general use at Thunder Bay	100
can.ont.orono	spruce,white	2+2	transplants	10/15/62	comparison of normal 2+2(left) and 1.5+1.5(right)	101
can.ont.swastika	spruce,white		soil conditions	05/20/61	soil after lifting of first seedling crop, n.b. soil heterogeneity some Ae and Bf horizons	102
can.bc.duncan	fir,douglas			08/15/63	general view of seedbeds	103
usa.cl.lucky peak	spruce,engelmann	2+0		08/15/64	general view of seedbeds	104
usa.cl.lucky peak	spruce,engelmann		shading	08/15/64	shading seedbeds with airplane target material	105
can.ont.swastika		0	seedbed covering	09/15/62	covering sand being applied to seedbeds	106
can.ont.swastika	pine,jack		winter "purpling"	09/15/62	purpling in jack pine after first good frost	107
can.ont. thunder bay	spruce,white			09/15/59	general view of band sown seedlings	108
can.ont.chapleau	pine,jack			09/15/59	typical seedlings,of the first crop	109
can.ont.swastika	pine,jack	1+0		10/15/63	typical seedlings n.b. secondary thickening	110
can.ont.chapleau	spruce,white	3+0		09/15/59	typical seedling of the first crop	111
can.nb.juniper	spruce,red			07/15/65	general view showing short beds and roll shading	112
can.nb.juniper	spruce,red	2+0		07/15/65	general view n.b. short beds and roll shading with bed boards	113
kenya,"turbo"	cupressus lusitania	1+0			general view; with intercropping	114
can.nb.juniper	spruce,black	1+0	seedbeds	09/08/68	general view of seedlings n.b. small stones	115
can.nb.juniper	spruce,black	1+0		09/03/68	general view of seedlings, n.b. small stones; c#114	116
can.ont.kemptville	pine,jack	1+0	germination	06/15/69	seedlings germinating under straw mulch	117
can.ont.kemptville	pine,red	1+0	germination	06/15/69	seedlings germinating under straw mulch	118

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.kemptville	pine,red	1+0	germination	06/15/69	general view of germinating beds of drill sown seedlings	119
can.ont.orono	pine,red		germination	07/15/68	general view of drill sown beds	120
usa.ny.saratoga			seeder and fertilizer	06/15/66	seeder and fertilizer banding machine	121
usa.ny.saratoga	spruce,white	0	fertilizing	06/15/66	seed and banded phosphorus placement after banding	122
usa.ny.saratoga	spruce,white		fertilization	06/15/66	seedling after one season showing original phosphorus placement in soil	123
can.ont.chapleau	pine,white	3+0		09/15/59	general view of seedlings, out of the soil	124
usa.cl.lucky peak	spruce.engelmann	2+0		08/15/64	general view of seedlings in beds	125
can.ont.st.williams	spruce,white	1+0		10/15/58	general view of seedbeds	126
can.ont.kemptville	pine,jack	2+0		06/15/69	general view of beds,rising 2+0	127
can.ont.kemptville	pine,red	3+0		06/15/69	general view of beds	128
can.ont.thunder bay	pine,jack	3+0	root pruning	06/15/63	seedlings rootpruned by vertical knives	129
can.al.oliver	spruce,white	2+0		07/15/63	general view of seedbeds	130
can.ont.orono	spruce,white	2+0		10/15/63	view of seedling out of bed	131
can.ont.st.williams	spruce,white	2+0	fertilization trial	09/07/61	general view of fertilizer trial	132
can.ont.st.williams	spruce,white	2+0	fertilization trial	08/15/60	control plot in U-2 trial	133
can.ont.st.williams	spruce,white	2+0	fertilization trial	08/15/60	1/2 rate of NP in U2 trial	134
can.ont.st.williams	spruce,white	2+0	fertilization trial	08/15/60	double rate of fertilizer application	135
can.ont.st.williams	spruce,white	2+0		07/15/60	view of beds used in periodic uptake study	136
can.ont.kemptville	pine,white	1+0	fertilization trial	09/15/56	general view of trial area n.b. no response	137
can.ont.kemptville	spruce,white	1+0	fertilization	09/15/56	nitrogen fertilization trial N @ 300lb/ac as ammonium sulphate,one of the first such trials in Ontario	138
can.ont.kemptville	spruce,white	1+0	fertilization	09/15/56	fertilizer trial,N @ 600 lb/ac applied twice, in June and in July as ammonium sulphate	139
can.ont.kemptville	spruce,white	1+0	fertilization	09/15/56	fertilizer trial,N @ 1200lb/ac applied in June as ammonium sulphate	140
usa.wash.webster	douglas fir	1+0	sowing date	09/10/63	seedlings drill late sown in late November; height-10-14cm	141
usa.wa.webster	douglas fir	1+0	sowing date	09/10/63	drill sown in mid-April; height-6-9cm	142
usa.wa.webster	douglas fir	1+0	sowing date	09/10/63	drill sown in late May; height-4-6cm	143
can.ont.dryden	pine,jack	1+0	wind effect	08/15/61	Effect of wind on bed at time of sowing	144
can.ont.swastika	pine,white	1+0	cabbage heading	07/10/65	natural cabbage heading probably from fertilizer pellet	145
can.ont.maple	pine, white	1+0	cabbage heading	10/15/63	cabbage heading induced by placement of fertilizer pellet	146
can.ont.swastika	pine,jack	1+0	damping-off	05/29/63	damping-off in extracted seedlings	147
can.ont.st.williams	pine,red	1+0	arsenic toxicity	06/15/58	arsenic poisoning in compartment that was converted from an apple orchard to seed beds. Arsenicals were sprayed regularly on the apple trees	148
can.nb.juniper	spruce,black	1+0	frost damage	09/15/69	September temperature of -12C(10F) causing frost damage on apical growth	149
can.ont.st.williams	spruce, white	2+0	nutrient deficiency, N & P	08/04/60	Foliage symptoms of N-chlorosis and P-purpling	150
can.ont.st.williams	spruce, white	2+0	nutrient deficiency, phosphorus	08/04/60	foliage symptoms of P-purpling deficiency, eye level view of seed bed	151
can.ont.st.williams	spruce, white	2+0	nutrient deficiency, Nitrogen	05/15/56	"dishing" of seedlings in the seedbed as a result of inadequate nitrogen supply	152
can.ont.midhurst	pine, red	1+0	damping-off	05/20/55	damping-off in germinating seedbeds; soil and water are alkaline	153
can.bc.duncan	cypress,lawson's	2+0	windblown contamination by seeds	06/15/65	western hemlock "seeding-in" by wind in Lawson's cypress beds	154
usa.wa.webster	douglas fir	2+2	transplant beds, general view	08/15/63	general view of beds, n.b. skinner irrigation system	155
can.ont.swastika	pine, jack	1+0	fertilization using irrigation system	07/15/69	Dragon fertilizer injector used in fertilizing seedbeds	156
can.ont.kemptville	pine, red	1+0	germinating seedbeds	06/15/69	general view of germinating beds	157
can.nb.juniper			view of nursery from air	07/15/65	aerial view of Juniper nursery before any change or enlargement	158
can.nb.juniper	spruce, red	1+0	general view of seed beds	07/15/65	ground view of seed beds, n.b. the bed boards and roll shades as well as the painted wood; also the orientation of the beds so that each is short	159
can.ont.swastika			view of nursery from air	09/15/68	Aerial view of nursery also showing surrounding forest	160
can.ont.swastika			view of nursery from air	09/15/68	Aerial view of nursery, looking south with Engelhart River on right	161
can.ont.swastika			view from air showing land preparation	09/15/68	Aerial view of seed and transplant beds, n.b. lower areas which have just had peat application; upper beds are seedbeds with shades	162
can.nb.juniper			view of nursery from air	06/15/66	Aerial view of complete nursery showing original seed beds to right and transplant beds at bottom and to left. N.B. SW branch of Miramichi R. and peat lands surrounding the nursery	163
usa.mi.east lansing	pine, red		view of seedbeds	08/20/58	general view of seedbeds	164
england,oxford,kennington			experimental plots	08/15/54	General view of the research nursery; showing grit mulch plots, and large-scale fertilizer trial in background	165
can.bc.green timbers	spruce and doug fir	2+0	view of seed beds	09/15/61	General view of seed beds, n.b. roll shades and bed boards.Compare with the Juniper nursery of Irving 1965	166
england,oxford,kennington	spruce, sitka	1+1	experimental nursery	08/15/54	General view of the experimental nursery showing transplant trials	167
can.ont.kemptville	pine,red	2+0	fertilizer trial	09/15/56	Fertilizer trial in transplant red pine at rates of 50,100 and 200 lbs/acre, photo 100#N/ac as amm.nitrate	168
can.ont.orono	spruce,white	2+2	transplant stock	05/15/53	Lifted machine transplanted stock showing distortion i.e. J-shaped roots as a result of being dragged by the machine at time of planting	169
can.ont.midhurst	spruce,white	2+1	transplants	07/15/53	General view of transplanted lines after a hand weeding n.b. the weeds in the paths	170
can.ont.kemptville	pine,red		weeding by hand	06/15/69	Manual weeding of rising 2+0 seedbeds	171
can.ont.st.williams			seed bed grooved roller	04/15/63	Grooved roller developed at nursery by weldind V-iron strips on a roller	172
can.ont.st.williams			seeding with grooved roller	04/15/63	Grooved roller followed by the Gandy seeder and a seed bed coveringwith a dragged piece of fencing	173
can.ont.st.williams			seeding	04/15/63	Grooved seed drills created by grooved roller	174
can.ont.orono			seeding grooved drills	11/15/68	covering seed bed made by grooved roller	175
can.ont.swastika			seeding using grooved plate	09/15/68	Gandy seeder and grooved plate to create drills for seeding	176
can.ont.kemptville			seeding using grooved roller	05/10/69	grooved roller and gandy seeder sowing conifer seed	177
can.ont.kemptville			seeding, making drills for hand sowing	05/10/69	set of teeth used to make drills for sowing hardwoods by hand	178
can.ont.st.williams			lifting and undercutting equipment	05/15/61	lifter/undercutter designed in England by U.K. Forestry Commission	179

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.st.williams			lifting and undercutting	05/15/61	U.K. lifter and undercutter, details of construction	180
can.ont.st.williams			lifting and undercutting	05/15/61	U.K. lifter and undercutter in operation. There was a collecting of roots around the central support arm which clogged the cutting action	181

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.swastika	pine,jack		lifting with a potato digger	09/15/68	Using a potato digger to lift seedling jack pine, this process brings up much soil with the roots especially if soil is moist	182
can.ont.swastika	pine,jack	2+0	lifting with potato digger	09/15/68	potato digger in action note the amount of soil brought up with the roots	183
can.ont.kemptville			lifting equipment	06/15/69	Modified potato digger developed by Kemptville and federal agricultural staff	184
can.ont.kemptville			lifting equipment	06/15/69	Front view of lifter developed by Kemptville and federal agriculture staff	185
can.ont.kemptville			lifting equipment	06/15/69	Rear view of modified potato digger developed by staff of nursery and federal agriculture	186
can.ont.kemptville	pine,red	3+0	lifting	06/15/69	Modified potato digger in operation, note that the tops and roots are tangled when they go into the bin	187
can.ont.kemptville	pine,red	3+0	lifting with modified potato digger	06/15/69	Front view of lifter in operation	188
can.ont.swastika			greenhouses	07/15/66	The first set of "meccano" greenhouses set up to produce Ontario tubed seedlings	189
can.ont.maple			greenhouses	05/15/66	Details of "portable" greenhouse showing construction of wood and polyfilm, "meccano" set bench frames and oil space heater	190
can.ont.swastika			greenhouses	07/15/66	General view of tubed seedling greenhouses with first crop of seedlings to right	191
can.ont.swastika	pine,jack	1+0	greenhouse, tubed seedlings	06/15/66	Seedlings outside for hardening off prior to out-planting	192
can.ont.kemptville	poplar,carolina	1+0	cuttings	06/15/69	Carolina poplar cuttings in conventional beds	193
can.nb.juniper	spruce, white	2+1	transplants	06/15/70	11/2+11/2 transplants after their first growing season at the Irving nursery, n.b. the compact root system	194
can.ont.moonbeam	spruce, black	2+1	transplants	07/15/61	Erosion in transplant lines due to soil texture and slope	195
can.nb.juniper			greenhouse, plastic	06/15/70	First plastic greenhouse at the Irving nursery	196
can.nb.juniper	spruce, black	1+0	greenhouse	06/15/70	First crops of spruce cuttings and special seed lots	197
can.nb.juniper	spruce, black	1+0	greenhouse	06/15/70	Interior of house showing rising 1+0 seedlings in broadcast beds	198
can.nb.juniper	spruce, black	1+0	sowing seed	10/15/69	Drill sowing seed using a modified agricultural drill sower	199
can.nb.juniper	spruce, black	1+0	sowing seed	10/15/69	General view of drill sower in operation	200
can.nb.juniper			stone picking equipment	06/15/71	Stone picker, a potato machine	201
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can.ont.chapleau	pine, red	2+0	seedlings	09/15/59	Representative seedlings from the first crops	207
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can.ont.swastika	pine, jack	2+0	seedlings in bed	07/15/69	Seedlings in situ in bed with roots and soil exposed, n.b. location of roots and the well-developed plow layer after approx. 10 years since nursery was established. Location Comp. B-11	209
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can.ont.midhurst			root trimming	09/15/61	Trimming roots prior to shipping	214
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can.ont.st.williams	spruce,white	2+0	Fertilizer experiment	07/15/60	Fertilizer experiment - amount and timing of Nitrogen fertilizer in Lot U-2 results published	217
can.ont.utglendon hall	douglas fir	1+0	container stock	01/15/71	Douglas fir grown in B.C. Styroblock for demonstration	218
can.ont.utglendon hall	pine, jack	1+0	containers	01/15/71	View of different containers, - Jiffy, Jiffy 7, Domtar tretube, Ont tubes, Paper pot, Conwed	219
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can.ont.utglendon hall		1+0	Root measuring equipment - Rhizometer	02/15/71	General view of the first rhizometer made, n.b. wooden construction	221
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can.nb.juniper			cultivation	06/15/71	details of harrows on Danish cultivator	228
can.nb.juniper	spruce, black	1+0	cutting	06/15/71	Rooted black spruce cutting taken from outstanding plantation tree	229
can.ont.orono	spruce, white	2+0	transplants	06/15/71	Comparison of seedlings used for transplant stock: on left (yellow) seedlings from overwintered beds ; on right those from stock lifted in fall and frozen stored until transplanting	230
can.ont.swastika	spruce,black	3+0	thinning	07/15/71	Chemically thinned with "gramoxone"	231
can.nb.juniper	spruce, black	2+2	transplants	06/15/71	General view of transplant lines after enlargement of field	232
can.nb.juniper			greenhouse	06/15/71	General view of plastic greenhouses to grow paper pots; each house can grow 2 million seedlings	233
can.nb.juniper	spruce, black	1+0	container stock, paper pots	06/10/71	First main plastic house crop in paper pots after 50 days i.e. 50 days after sowing	234
can.nb.juniper	spruce, black	1+0	seedlings	06/15/71	50-day old black spruce in plastic house, broadcast peat beds	235
can.nb.juniper	spruce, black	1+0	container stock	06/10/71	General view inside greenhouse	236
can.ont.swastika	pine, jack	1+0	sowing in drills	06/15/71	drillsown jack pine, really results in bands. first slide shows September beds and the second the same in June	237
can.nb.juniper	spruce, black	1+0	container stock	06/10/71	Extracted seedlings to show root development	238
can.ont.orono	pine,white	0	seedbeds	11/15/71	Seeds in grooved seedlines from grooved roller	239
can.ont.orono	pine, white	0	mulching	11/15/71	Mulching grooved seedbeds with straw	240
can.bc.duncan			germination	12/15/71	Internal germinator using modine gas heater	241
can.bc.duncan	douglas fir	1+0	germination	12/15/71	seedlings that have been germinated in BC styroblocks in a separate room	242

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.bc.duncan	hemlock, western	1+0	root pruning	12/15/71	Air pruning of roots of hemlock in BC styroblock	243
can.bc.surrey	douglas fir	1+0	container stock	12/15/71	General view of styroblocs laidout in nursery beds	244
can.bc.surrey	douglas fir	1+0	container stock	12/15/71	View of styroblocs in nursery, note skinner irrigation system	245
can.bc.surrey	douglas fir	1+0	container stock	12/15/71	Moving styroblocs in nursery	246
can.bc.surrey			fertilization	12/15/71	Fertilizer injection system at container nursery	247
can.bc.surrey	douglas fir	1+0	container stock	12/15/71	Extracted "plug" seedling	248
can.nb.juniper			nursery, aerial view	06/15/71	Aerial view of nursery from west side; n.b. peat bog in foreground greenhouses mid left for container stock	249
can.nb.juniper			nursery aerial view	06/15/71	Nursery from south, large transplant field, dark area is where more than normal application of peat was made @150cu/yd/ac	250
can.nb.juniper			nursery ,aerial view	06/15/71	Aerial view of nursery from south n.b. portion of transplant field where peat was applied at 150cu/yd/ac	251
can.ont.st.williams			lifting equipment	08/15/72	Large tree lifter for landscape stock	252
can.ont.st.williams	ash, white	2+2+2	lifting	08/15/72	Lifting large landscape stock	253
can.ont.st.williams			fertilizer, equipment	08/15/72	Fertilizer spreader for use in landscape beds or general land application	254
can.ont.st.williams	walnut, black	1+0	seedbeds	08/15/72	General view of rising 1+0 seedlings, n.b. size	255
can.ont.st.williams	ash, white	1+0	irrigation	08/15/72	Irrigation using Skinner system on ash seedbeds	256
can.ont.st.williams	spruce, white	2+0	damage, chemical	08/15/72	Damage from varsol applied as weed control; uneven application is the problem	257
can.ont.chapleau			nursery	07/15/72	General view of nursery	258
can.ont.chapleau	spruce, white	3+0	budworm damage	06/15/72	multiple leader from budworm damage	259
can.ont.chapleau	spruce, white	3+0	cabbage heading	06/15/72	cabbage heading in 3+0 Pig, possibly from budworm	260
can.ont.orono	pine, red	3+0	storage trial	06/15/72	Red pine lifted in the fall at different times and freeze-stored, then outplanted the next spring. Dead trees lifted prior to Nov. live trees lifted later after major frost	261
can.ont.swastika			nursery, aerial	06/15/72	Aerial view from north n.b. Engelhart R. regenerated clearcut and main access road off to left	262
can.ont.swastika			nursery aerial	06/15/72	Aerial view of transplant compartments, seedbeds top right	263
can.ont.thunder bay			nursery headquarters	06/15/72	New headquarters building	264
can.ont.thunder bay	spruce, black	3+0	root pruning/wrenching	07/15/72	Root pruning, or wrenching using a lifter blade	265
can.ont.thunder bay	spruce, white	3+0	frost damage	06/15/72	Leader injury from late spring frost	266
can.ont.thunder bay	pine, red	1+0	herbicide application	06/15/72	Dacthal application on right of book, no application on left	267
can.ont.midhurst	pine, red	2+0	irrigation	06/15/72	Skinner system on a low set of supports	268
can.ont.midhurst	pine, red	3+0	thinning	06/15/72	Seedbed thinning after strip application of paraquat	269
can.ont.midhurst	pine, red	2+0	thinning	06/15/72	Manual thinning of seedbeds from 40-65sdls/sq.ft. by hand to 30sdls/sq.ft.	270
can.ont.gogama	pine, jack	2+0	irrigation	06/15/72	Wade irrigation system on seedbeds	271
can.nb.juniper	spruce, black	2+2	transplants	09/15/72	Healthy spruce being inspected by Bob Bezzant	272
can.nb.juniper	spruce, black	2+0	Aphid damage	08/15/72	Aphids in succulent leader	273
can.nb.juniper	spruce, black	2+0	Aphid damage	08/15/72	Dead top of leader resulting from aphid attack	274
can.nb.juniper	spruce, black	2+0	Aphid damage	08/15/72	Seedling from bed to show dead foliage from aphid attack	275
can.nb.juniper	spruce, black	2+0	Botrytis damage	08/15/72	Botrytis mold on lower foliage in very dense and moist seedbeds density approx. 300sdls/sq/ft	276
can.nb.juniper	spruce, black	2+0	Botrytis and aphid damage	07/15/72	Cross-section of seedlings in situ showing lower dead foliage due to Botrytis and dead leadertop to aphids	277
can.nb.juniper	spruce, black	2+0	Botrytis damage	08/15/72	Cross-section of dense seedbed(300sdls/sq/ft) to show effects of Botrytis mold	278
can.nb.juniper	spruce, black	1+1	container, paper pot	08/15/72	Seed sown March, outplanted July 1972 at Camp 66, Miramichi	279
can.ont.swastika	spruce, black	2+0	seedbed	09/15/72	seedling showing evidence of frost-heaving in seedbed	280
can.ont.swastika	spruce, black	1+0	seedbeds	09/15/72	Band sown spruce	281
can.nb.juniper	spruce, black	1+0	greenhouse	06/15/72	Broadcast greenhouse beds for transplanting in summer, ht. 10-15cm.	282
can.nb.juniper	spruce, black	1+1	transplants	09/15/72	Comparison of greenhouse grown seedlings vs regular seedbed stock left: sdls sown greenhouse Feb. heeled-in June, transplanted Aug right: 11/2 seedbed stock transplanted Aug	283
can.nb.juniper	spruce, black	1+1	transplant	09/15/72	Comparison of seedlings from greenhouse 1/2+1 vs seedbed 11/2+1; n.b. greenhouse with compact root system, although smaller than conventional stock	284
can.nb.juniper	spruce, black	2+0	mulching, peat	09/15/72	Mulched seedbeds to prevent frost heaving, n.b. success	285
can.nb.juniper	spruce, black	1+0	mulching	09/15/72	Peat mulch applied to seedbeds in late August to prevent frost heaving	286
can.nb.juniper			mulching, equipment	09/15/72	Mulching spreader used to apply peat to seedbeds	287
can.nb.juniper	spruce, black	1+0	mulching seedbeds	07/15/72	Mulching seedbeds n.b. machine has put on mulch ,now it is being brushed to ensure even distribution	288
can.nb.juniper	spruce, black	1+0	seedbeds, general view	10/15/72	General view of seedbeds in fall	289
can.nb.juniper	spruce, black	1+0	provenance	10/15/72	Comparison of seed sources, Ontario(Kapuskasing) on left, NB(Black Brook) on right. NB shows interbreeding with red spruce	290
can.nb.juniper	spruce, black	2+0	provenance	08/15/72	Comparison of Ontario(Kapuskasing)left and NB spruce (right)	291
can.nb.juniper	spruce, black	2+0	seedbeds	09/15/72	Side view of seedlings in bed	292
can.nb.juniper	spruce, white	1+0	provenance	09/15/72	Comparison of two NB sources; left local Juniper source, right seed from Sussex,NB	293
can.nb.juniper	spruce, black	2+2	lifting and packing	05/15/72	Lifting and packing in the field as one operation	294
can.nb.juniper	spruce, black	2+2	Lifting,plowing and transplanting at same time	05/15/72	Concurrent operations in the same field to achieve maximum production	295
can.nb.juniper			container equipment, seeding	05/15/72	Paperpot seeding line, the first in Canada	296
can.nb.juniper			container equipment, seeding roller	05/15/72	Close-up of the seeding roller to show vacuum holes which hold the seeds	297
can.nb.juniper	spruce, black	1+1	transplants	06/15/72	Transplanted paperpot seedlings, sown April'71, transplanted Aug'71 photo June'72; n.b. healthy vigorous condition	298
can.nb.juniper	spruce, black	1+1	transplant stock	06/15/72	Paperpot seedlings sown April'71, transplanted Aug'71, photo June'72for comparison n.b. seedling with pot still on roots	299
can.nb.juniper	spruce, black	1+1	transplant stock	06/15/72	Paperpot seedling , sown April'71, transplanted Aug'71,photo June'72n.b. root development	300
can.nb.juniper	spruce, black	1+0	container stock	08/15/72	Paperpot seedlings sown March'72, photo Aug'72, n.b. colour & size	301
can.nb.juniper	spruce, black	2+1	transplanting seedlings	05/15/72	10-row transplanter using conventional seedbed stock	302
can.nb.juniper			land preparation equipment	06/15/72	Vibrashank plow in use at nursery to break-up soil	303

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.nb.juniper			drainage	06/15/72	Installing plastic drainage pipe in transplant compartment: cf Land Use Slide#1	304
can.nb.juniper	spruce,black	3+0	seedling roots	06/15/72	Comparison of two seedlings ,one with fine root system(ht.19.5cm., diam.4.7cm) and coarse roots(ht.18.5cm., diam5.3cm)	305

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.nb.juniper	larch,european	1+0	frost damage	05/15/72	Late spring frost mortality, but n.b. one surviving seedling	306
can.nb.juniper	pine,jack	1+0	seedbed seedlings	06/15/72	General view of seedlings rising 2+0	307
can.nb.juniper	spruce,black	1+0	container seedlings	08/15/72	Paperpot seedlings sown March'72, photo Aug'72	308
can.nb.juniper	spruce,black	1+0	Cuttings, rooted	06/15/73	Cuttings taken from superior looking plantation trees at Black Brk.	309
can.nb.juniper	spruce,black	1+1	transplant stock	06/15/73	Comparison of 1/2+1/2(left) and 11/2+1/2(right) stock; cf. with Nursery Slide#279	310
can.nb.juniper	spruce,black	1+1	transplant stock	06/15/73	Greenhouse seedlings sown winter'72, transplanted July'72, photo June'73	311
can.nb.juniper	spruce,black	1+1	transplant stock	06/15/73	Conventional 11/2 seedling transplanted in July'72, photo june'73 compare with slide#310 &311 All in same field(O)	312
can.nb.juniper	spruce,black	1+0	container stock	06/15/73	Greenhouse seedlings sown winter'73 heeled in spring'73	313
can.ont.orono	pine,red	2+0	seedling stock	06/15/73	Comparison of seedling stock, one set sown in fall, the other in the following spring	314
can.nb.juniper	spruce,black	1+0	container stock	06/15/73	Paperpot seedlings winter sown, photo June'73	315
can.nb.juniper			fertilizer equipment	06/15/73	Egedal fertilizer applicator and cultivator	316
can.nb.juniper			fertilizer equipment	06/15/73	Egedal fertilizer applicator and cultivator	317
can.ont.orono			greenhouse, cuttings	06/15/73	General view of first plastic house for rooting cuttings	318
can.ont.orono	spruce	1+0	Cuttings	06/15/73	General view of cuttings from larger selected trees being rooted	319
can.ont.orono	spruce	1+0	cuttings	06/15/73	Close-up of individual cuttings being rooted; these are cuttings taken from selected larger trees	320
can.ont.orono	spruce, white	1+1	container stock	06/15/73	Nisula roll stock grown experimentally	321
can.ont.st.williams	ash, white	1+0	seedlings	08/15/73	White ash seedlings in experimental treatment,- Control no N	322
can.ont.st.williams	ash, white	1+0	seedlings	08/15/73	White ash seedlings fertilized with N @ 100lb/ac; seedbed density 10 sdlg/sq.ft.	323
can.ont.st.williams	ash, white	1+0	seedlings	08/15/73	Extracted bed run seedlings	324
can.ont.st.williams	oak, red	1+0	seedlings	08/15/73	Extracted bed run stock	325
can.ont.st.williams	oak, red	1+0	fertilization trial	08/15/73	seedlings in control plot - no N	326
can.ont.st.williams	oak, red	1+0	fertilization trial	08/15/73	seedlings from treatment of 100lb/ac N	327
can.ont.st.williams	oak,red	1+0	fertilization trial	08/15/73	seedlings from treatment with 200 lb/ac N; 10/sq.ft.	328
can.nb.juniper	pine,jack	1+0	container stock	09/15/73	Paper pot stock sown June'73 in plastic house and now set outside for overwintering and the spring'74 planting	329
can.nb.juniper	spruce, black	1+0	greenhouse seedlings	08/15/73	seedlings sown in greenhouse Feb'73, heeled-in for transplanting photo Aug'73	330
can.nb.juniper	spruce, black	1+1	transplants	08/15/73	Greenhouse seedlings(1/2) sown Feb'72, transplanted Aug'72 and grown through second season(1), i.e.1/2+1 - field O	331
can.ont.st.williams	pine,red	2+0	disease,pine needle cast	04/15/73	Lophodermium pinastri in seedbeds	332
can.ont.st.williams	pine, red	2+0	disease,needle cast	04/15/73	Close-up of seedlings attacked by Lophodermium pinastri, n.b. the dead foliage and some dead seedlings	333
can.nb.juniper	spruce, black	1+0	seedbeds	08/15/73	General view of seedbeds where surface was covered with plastic to bring about more uniform germination n.b. evenness	334
can.ont.thessalon	birch, yellow	2+0	seedbeds	08/15/73	general view of seedbeds	335
can.ont.thessalon	spruce, black	3+0	seedlings	08/15/73	extracted seedlings to show root development	336
can.ont.st.williams	walnut,black	1+0	seedbeds	08/05/73	general view of seedbeds n.b. height of seedlings ;R.Laupert(Supt.)	337
can.ont.swastika	spruce, black	1+1	transplants	08/29/73	Transplanted 11/2+1/2 stock extracted to show roots	338
can.ont.chapleau	spruce, white	3+0	seedbeds	08/22/73	General view of seedbeds, amitrol has been used to control weeds	339
can.ont.gogama	pine,red	1+0	container stock	08/23/73	Seedlings in Ontario tubes	340
can.ont.thessalon	spruce, white	1+0	container stock	08/21/73	Over wintered Ontario tubed seedlings	341
can.ont.swastika			land preparation	09/15/73	Compartment given peat dressing and seeded to oats to protect from erosion during fall and early spring	342
can.ont.swastika	spruce, white	2+1	transplants	09/15/73	General view of 11-row transplant beds	343
can.ont.swastika	pine, jack	2+0	lifting	09/15/73	seedling harvester used to lift seedlings	344
can.ont.swastika	pine, jack	2+0	lifting	09/15/73	seedling harvester lifting jack pine	345
can.ont.swastika	pine, jack	2+0	lifting	09/15/73	seedlings being lifted by harvester, n.b. lack of soil on roots	346
can.ont.orono			mulching	11/15/73	hydro mulcher applying a thin coating of a pulp-type mulch to seedbeds	347
can.ont.orono			mulching	11/15/73	Views of mulch being applied and close-up of mulched bed	348
can.nb.orono	spruce, white	2+0	fertilization trial	11/15/73	Keith McClain's fertility/density trial,1973	349
can.ont.st.williams	spruce, white	3+0	seedling, super	04/15/73	Super seedling with R. Laupert(Supt.)	350
can.ont.utglendon hall	pine,jack	1+0	cabbage-heading	02/15/73	Initiation of cabbage-heading, cause unknown	351
can.ont.utglendon hall	spruce,white	2+0	root exposure	03/15/73	seedlings whose roots have been exposed for periods of 2, 6 and 10 hours before simulated planting: Green(2), right(10), middle(6)	352
can.ont.utglendon hall	pine,jack: spruce,wf	1+0	experimental irrigation	02/15/73	Seedlings watered atintervals of 3,5 or 9 days	353
can.nb.juniper	spruce,black	2+0	transplanting	06/15/74	transplanting using dual 5-row machines	354
can.nb.juniper	spruce, black	1+0	container stock	06/15/74	Paper pot seedlings in greenhouse after 133 days of growing	355
can.nb.juniper	spruce, black	1+0	container stock	06/15/74	close-up of seedlings in paper pots after 133 growing days	356
can.nb.juniper	spruce, black	2+0	seedlings	06/15/74	Extracted seedlings from regular seedbeds(Field J)	357
can.nb.sussex			greenhouses	06/15/74	General view of greenhouses with planting area for seedproduction area using rooted cuttings from superior plantation trees in fore- ground	358
can.nb.sussex			greenhouses	06/15/74	Greenhouses(new) and Niels Kreiberg	359
can.nb.sussex	pine,jack	1+0	container stock	06/15/74	general view of plastic house and paper pot seedlings after 30 days	360
can.nb.sussex	spruce, black	1+0	container stock, nisula	06/15/74	general view of Nisula machine in operation	361
can.nb.sussex	spruce,black	1+0	container stock, nisula	06/15/74	General view of Nisula rolls in holding area	362
can.nb.sussex			seed production area	06/15/74	General view of seed production area after preparation	363
can nb.sussex	spruce, black	1+1+2	seed production stock	06/15/74	First planting of rooted cuttings from superior plantation trees	364
can.ont.midhurst	spruce, white	3+0	frost damage	05/15/72	Late spring frost damage, n.b. brown tips of leaders	365
can.ont.swastika			seeding equipment	09/15/74	Modified gandy seeder to drill sow, really it produces a band ratherthan a single drill	366

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.swastika			land preparation	09/15/74	Peat application of 200cu.yds/ac	367

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.swastika	spruce, black	2+0	transplanting	09/15/74	6-row transplanter in operation	368
can.ont.swastika	spruce, white	1+0	container, Ontario tube	09/15/74	seedlings in Ontario tubes; sown April, photo Sept.	369
can.bc.surrey		1+0	container, shade house	07/15/74	Shade house for BC styroblock stock taken from greenhouse in spring	370
can.bc.surrey			container, shade house	07/15/74	Interior of shade house, n.b. irrigation sprinkler	371
can.bc.surrey	douglas fir	1+0	seedbeds	07/15/74	General view of drill sown(spring) beds,n.b. mulch	372
can.bc.surrey	spruce, white	2+0	root pruning	07/15/74	General view of beds that have been root pruned(wrenched)	373
can.bc.surrey	spruce, white	2+0	root pruning	07/15/74	Close-up in bed of root-pruned(wrenched) stock	374
can.bc.surrey	douglas fir	2+0	aphid damage	07/15/74	close-up of leaders affected by aphids	375
can.bc.green timbers			container building	07/15/74	Shelter house being constructed for container stock	376
can.bc.green timbers	douglas fir	1+0	container stock	07/15/74	seedlings in BC styroblock"8" sown May 1 after approx.95 days	377
can.bc.duncan			container, shade house	07/15/74	Shade house for container stock, Jack Long (Supt.)	378
can.bc.duncan			greenhouse, container	07/15/74	Large plastic house for BC styroblock containers n.b. motorized overhead irrigation trolley	379
can.bc.duncan	hemlock,western	1+0	container stock	07/15/74	extracted plug from BC styroblock	380
can.bc.skimikin	spruce, white	1+0	seedbeds	07/15/74	General view of rising 1+0 seedlings	381
can.bc.skimikin	spruce, white	1+0	seedbeds	07/15/74	General view of seedbeds	382
can.bc.skimikin	spruce, white	2+0	seedling stock	07/15/74	Seedling extracted from seedbed, n.b. root system with long roots	383
can.bc.skimikin			irrigation, reservoir	07/15/74	Large reservoir(1 million gallons capacity) for irrigation water	384
can.bc.vernon		1+0	container stock	07/15/74	General view of containers - BC styroblocks	385
can.bc.vernon	douglas fir	1+0	container stock	07/15/74	seedlings germinated under two conditions, - outside(white) and inside (red) - n.b. difference in size	386
can.bc.red rock	spruce, white	1+0	seedbeds	07/15/74	general view of seedbeds, n.b. size of field without windbreaks	387
can.bc.red rock	spruce, white	1+0	container stock	07/15/74	seedlings in BC styroblock showing low germination and symptom of phosphorus deficiency(purpling)	388
usa.wa.weyerhaeuser	douglas fir		greenhouse, container	08/15/74	General view of greenhouses with seed orchard in foreground	389
usa.wa.weyerhaeuser			greenhouses	07/15/74	General view of houses, n.b. wide doorsfor vehicle access	390
usa.wa.weyerhaeuser			containers	07/15/74	Leach tubes stacked for use; Rochester nursery	391
usa.wa.weyerhaeuser	douglas fir	1+0	container stock	06/15/74	seedlings in Leach tubes; Rochester nursery	392
usa.wa.weyerhaeuser	douglas fir	1+0	container stock	07/15/74	general view inside greenhouse, n.b. low irrigation boom and worker riding on it; Rochester nursery	393
usa.wa.weyerhaeuser	douglas fir	1+0	container stock	07/15/74	seedlings and low irrigation boom, with support for people to ride	394
usa.wa.weyerhaeuser	douglas fir	1+0	container equipment	07/15/74	Woman moving irrigation boom across house	395
usa.wa.weyerhaeuser	douglas fir	1+0	container equipment	07/15/74	Detail of irrigation equipment	396
usa.wa.weyerhaeuser	douglas fir	1+0	container stock	07/15/74	general view of house,n.b. low irrigation boom in use and platform for workers to tend seedlings.	397
usa.wa.weyerhaeuser	douglas fir	1+0	seedlings	07/15/74	General view of seedlings sown April, at 4 months	398
usa.wa.weyerhaeuser	douglas fir	1+0	seedlings	07/15/74	Seedlings sown in April at 4 months; cf. slide #398. Difference is due to different soil mix	399
usa.wa.weyerhaeuser	douglas fir	1+0	container	07/15/74	Seedling at 4 months, extracted from Leach tube	400
usa.wa.weyerhaeuser	douglas fir	1+0	container	08/15/74	Overwintered container(Leach tube); sown April 1973, photo Aug/74	401
usa.wa.weyerhaeuser	douglas fir	1+0	seedbeds	07/15/74	Drill sown June 1/74 at Aurora nursery	402
usa.wa.weyerhaeuser	douglas fir	2+0	seedbeds	07/15/74	Drill sown beds of rising 2+0 douglas fir at Aurora nursery	403
usa.wa.weyerhaeuser	douglas fir	2+1	transplants	07/15/74	Transplant lines at Aurora nursery	404
usa.wa.weyerhaeuser	douglas fir	2+1	transplants	07/15/74	Transplants mixed with millet and grass, Aurora nursery	405
usa.wa.weyerhaeuser	douglas fir		shelter house	07/15/74	shelterhouse showing benches at Aurora nursery	406
usa.wa.weyerhaeuser	douglas fir	1+0	container	07/15/74	Container stock sown in March/74 in leachtubes at Aurora nursery	407
usa.wa.weyerhaeuser	douglas fir	1+0	container	07/15/74	Extracted seedling at 4 months n.b. dry peat; Aurora nursery	408
usa.wa.weyerhaeuser	spruce, sitka	1+0	container	07/15/74	Sown on Oct 26/73, photo July/74; slow growth!	409
usa.wa.weyerhaeuser	fir,noble	1+0	container	07/15/74	Sown Dec 7/73 in Leach tubes;Aurora nursery	410
usa.wa.weyerhaeuser	hemlock, western	1+0	container	07/15/74	Sown Oct.26/73 in a soil mix of bark and sand at Aurora nursery; n.b. poor development	411
usa.wa.weyerhaeuser	douglas fir	1+0	container	07/15/74	Over wintered stock in Leach tubes at Aurora nursery	412
usa.or.weyerhaeuser			general view	07/15/74	General view of nursery from heliport at Jefferson nursery	413
usa.or.weyerhaeuser			greenhouses	07/15/74	General view of the greenhouses at Jefferson nursery	414
usa.or.weyerhaeuser	pine, ponderosa	1+0	container	07/15/74	Ponerosa pine in greenhouse at Jefferson nursery	415
usa.or.weyerhaeuser			greenhouse	07/15/74	Detail of hot air heating underneath benches at Jefferson nursery	416
usa.or.weyerhaeuser	pine,ponderosa	1+0	container	07/15/74	Pine in extra long(10") Leach tubes, to accomodate long tap root; at Jefferson nursery	417
usa.or.weyerhaeuser	pine, ponderosa	1+0	container	07/15/74	Extracted ponderosa pine at 21/2 months in 10"tube at Jefferson nursery	418
usa.or.wood			greenhouse	07/15/74	General view of Wood nursery growing for Crown Zellerbach	419
usa.or.wood	douglas fir	1+0	container	07/15/74	Ed Wood holding large seedling he grows for Crown Zellerbach	420
usa.or.wood	douglas fir	1+0	container	07/15/74	Seedlins in "Wood's" tubes	421
usa.or.wood	douglas fir	1+0	container	07/15/74	General view of container stock in greenhouse. Grown for Crown Zellerbach	422
usa.or.wood	hemlock,western	1+0	container, mix	07/15/74	Hemlock grown in bark mix cf. slide #411	423
usa.or.wood	fir, noble	1+0	container	07/15/74	Noble fir grown in large "wood" tubes	424
usa.or.wood	spruce,sitka	1+1	container	07/15/74	Sitka spruce seedlings transplanted into containers, large in March, the smaller in May	425
usa.or.hoehnke				07/30/74	General view of greenhouses	426
usa.or.hoehnke			container	07/30/74	View inside greenhouse, n.b. asphalt surface with containers on it.	427
usa.or.hoehnke			container	07/30/74	View inside shade house, containers on wooden supports off asphalt	428

LOCATION		SPECIES	AGE CLASS		ACTIVITY	DATE	DESCRIPTION	NO
usa.or.hoentke		douglas fir	1+0	container		07/30/74	Douglas fir sown April, photo in July	429

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
usa.or.hoenhke	pine, ponderosa	1+0	container	07/30/74	Pine seedling grown in 10" tube,cf.slide#418 for Jefferson nursery	430
usa.or.cottage grove				07/30/74	General view of shade house, this is nursery for Georgia Pacific	431
usa.or.cottage grove				07/30/74	Detail of roof of shade house to show vent for hot air	432
usa.or.cottage grove	douglas fir	1+0	container, styroblock	07/30/74	Douglas fir sown in April in styroblocs, photo July	433
usa.or.cottage grove	douglas fir	1+0	container, styroblock	07/30/74	Douglas fir extracted from block,sown April, photo July	434
usa.or.cottage grove	hemlock, western	1+0	container, styroblock	07/30/74	Extracted hemlock seedling, sown April, photo July	435
can.ont.utglendon hall	pine,jack	1+0	moisture loss	02/15/71	Moisture loss from Jiffy pot 30 minutes after planting in dry soil	436
can.ont.utglendon hall	pine, jack	1+0	moisture loss	02/15/71	Moisture loss from Paper pot after 30 minutes, cf.slides#436 & 438	437
can.ont.utglendon hall	pine, jack	1+0	moisture loss	02/15/71	Moisture loss from Ontario tube after 30 minutes,cf.slides#436 & 437	438
can.ont.utglendon hall	pine,jack	1+0	nutrient deficiency, phosphorus	10/15/74	Phosphorus deficiency in jack pine at 25 days	439
can.nb.sussex	spruce, white	2+0	container,nisula	06/15/75	Nisula roll white spruce, put in roll in April, photo in June	440
can.nb.sussex	spruce,black	1+1	container, nisula	06/30/75	Black spruce grown in greenhouse, transplanted as 1+0 in June,1974 photo June, 1975	441
can.nb.sussex	spruce,white	1+1	container,nisula	06/30/75	Nisula rolls in Sussex nursery of J.D.Irving	442
can.nb.juniper	spruce,black	2+0	seedbeds	08/15/76	Seedbeds in field "J". Third crop, height 25 cm	443
can.nb.juniper	spruce,black	2+0	seedbeds	08/15/76	View of seedbeds in Field "K";Maurice Dionne & Paul Bourque	444
can.nb.juniper	spruce,black	1+0	container	08/15/76	Paperpot seedlings beginning second growing period.	445
can.nb.juniper	spruce,black	2+1	lifting	08/15/76	Lifting in August; 200 trees per bale; 400k on a truck. Being shipped directly to the planting site,i.e. summer planting	446
can.nb.juniper	spruce,white	2+1	transplants	08/15/76	Comparison of fresh and frozen stock after first growing season in transplant lines	447
can.nb.juniper	spruce, white	2+1	transplants	08/15/76	Comparison of fresh and frozen stock, extracted seedlings, cf.slide #447	448
can.ont.kemptville			lifting	10/15/74	Lifting machine in operation on spruce seedbeds	449
can.ont.orono	spruce, white	2+2	transplants	10/15/76	Stock on Bill Bunting's right was kifted fresh in mid May '75, that on his left was lifted in April and cool stored. Both stock transplanted at same time	450
can.ont.orono	spruce,white	2+1	transplants	10/15/76	Cool stored(left) and fresh lifted transplants after one growing season n.b. very little visible difference :cf.slide#450	451
can.ont.swastika			hoop houses	09/15/76	Hoop houses for container stock - not very successful	452
can.ont.swastika	pine,jack	1+0	container	09/15/76	Jack pine in paper pots, sown in June'76	453
can.ont.swastika	spruce,white	1+0	container	09/15/76	Spruce in paper pots, n.b. mortality due to drouhgt from improper watering	454
can.ont.swastika	spruce,white	2+0	nutrient deficiency	09/15/76	Seedbeds showing 'dishing'due to nitrogen deficiency; staff at nursery had chnaged and those already there were lax; no excuse!	455
can.ont.swastika	spruce,black	1+1	transplants	09/15/76	Close-up of 1/2+1, i.e. seedling raised in plastic house(Feb-May) then transplanted to field	456
can.ont.swastika	spruce,black	1+1	transplants	09/15/76	General view of seedbeds of seedlings raised in plastic house from Feb-May, then transplanted i.e. they are 1/2+1, cf.slide#456	457
usa.nc.clayton			greenhouse	03/15/76	General view of greenhouse	458
usa.nc.clayton	fir,fraser	1+0	container	03/15/76	General view of styroblocs seeded to fraser fir to go to Xmas tree growers from this nursery run by NC Forest Service	459
can.al.hinton	pine,lodgepole	1+0	container	04/15/76	General view inside greenhouse showing seedlings in Spencer-Lemaire book containers; Bill Mattes	460
can.al.hinton	pine,lodgepole	1+0	container	04/15/76	Overwintered stock in Spencer-Lemaire containers, n.b. purpling of many seedlings, Bill Mattes	461
can.al.hinton	spruce, white	1+0	container	04/15/76	Overwinterd stock in Spencer-Lemaire, cf.Slide#461	462
can.bc.surrey			seeding	07/15/77	Seeding and fertilizer placement machine. cf.slide #121,122,123	463
can.bc.surrey	spruce,white	0	seeding	09/15/77	Coated seed in drills after sowing by seeder/fertilizer placement	464
can.bc.surrey			root pruning	09/15/77	New Zeakand designed root pruner in white spruce	465
can.bc.surrey			seeding	09/15/77	Detail of seeding drum used for containers	466
can.bc.surrey	hemlock,western	1+0	seeding	09/15/77	Western hemlock in styroblocs after 6 months growth	467
can.bc.surrey	hemlock,western	1+0	seedlings	09/15/77	Roots 'shaved' from underside of styrobloc at 6 months	468
can.bc.surrey	hemlock,western	1+0	seedlings	09/15/77	General view of seedlings in styroblocs, white spruce in the foreground, hemlock behind	469
can.bc.surrey	hemlock,western	1+0	seedling	09/15/77	Extracted seedling from styrobloc at 6 months	470
can.nf.grand falls	larch,eeastern	2+0	transplants	07/15/77	First transplanting at Grand Falls nursery	471
can.nf.grand falls			seedbeds	07/15/77	Shaded seedbeds down in late spring n.b. poor growth	472
can.al.hinton			greenhouse	04/15/77	Interior of greenhouse to show tiered arrangement of containers	473
can.bc.red rock	spruce,white	1+0	seedbeds	06/15/77	Drill sown seedbeds	474
can.bc.red rock			weeder	06/15/77	Mechanical weeder used in drill sown seed beds	475
can.bc.red rock	pine,lodgepole	1+1	transplanting	06/15/77	Transplanting(lining out) pine by hand	476
can.bc.red rock	spruce,white	1+0	container	06/15/77	Spruce in styroblocs at 3 months	477
can.bc.red rock			fertilizer	06/15/77	Detail of machine for fertilizer placement	478
can.bc.red rock	spruce,white	2+1	transplanting	06/15/77	Egedal 6-row transplanter in white spruce n.b. end of row(4 rows) and protection for workers	479
can.bc.red rock			transplanting	06/15/77	Interior of Egedal transplanter. cf.slide #479	480
can.bc.red rock			transplanting	06/15/77	Women turning transplanter at end of row	481
can.ont.Abitibi	pine,jack	1+0	container	05/15/77	First paperpot crop of overwintered pine at Camp#228, Harry Oneschuk	482
can.ont.abitibi	pine,jack	1+0	container	05/15/77	Overwintered paperpot stock grown at Camp#228. n.b. dessication in some of the containers	483
can.ont.st.williams	spruce,norway	1+2	transplants	10/15/77	Norway spruce,1+2 with Ralph Laupert(nursery supt.)	484
can.ont.st.williams	linden,little-leaf	1+0	seedbeds	10/15/77	Linden, that on right (with Ralph Laupert) sown August 30/76, that on left sown Sept28/76	485
can.ont.swastika			screening peat	09/15/77	Screening peat from Dunmore bog, prior to application to land	486
can.ont.utglendon hall	spruce,black	1+0	mulching	04/15/74	Demonstration of effects of grit,peat and sand mulches on seedling growth.Results published in Tree Planters Notes:26:4:8-9	487
can.ont.utglendon hall	spruce,black	1+0	mulching	04/15/74	Extracted seedlings from mulch experiment. see slide # 487 for details	488
usa.wa.weyerhaeuser			seeding	06/15/78	Detail of seeding machine at Rochester nursery	489
can.ont.kemptville			land development	10/15/78	Road and drainage ditch leading to new land fro poplar production(inbackground)	490

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.kemptville	poplar	2+0	stool bed	10/15/78	Two-year-old stool bed n.b. dead area in foreground, cause unknown Alf Campbell	491
can.bc.duncan	hemlock,western	1+0	container	10/15/78	Container(styroblock) hemlock	492

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.bc.duncan	spruce,white	1+0	container	10/15/78	Container white spruce in styroblocks	493
can.pei.charlottetown				09/15/78	General view of greenhouse	494
can.nb.juniper	spruce.black	1+0	container	08/15/79	Seedlings sown in May79 in 8" styroblocks	495
can.nb.juniper	spruce.black	1+0	container	08/15/79	Extracted seedling from styroblock, sown May79.cfSlide#495	496
can.al.pine ridge			greenhouse	09/15/79	General view of greenhouses and screen area	497
can.al.pine ridge			racks for support	09/15/79	Wheeled racks that can be stacked; used instead of benches	498
can.al.pine ridge			pallets	09/15/79	Stacked pallets(plastic) used in conjunction with wheeled racks	499
can.al.pine ridge			container benches	09/15/79	Wheeled racks and pallets in place with seedlings in containers	500
can.al.pine ridge	spruce,white	1+0	container	09/15/79	Containers of white spruce	501
can.al.pine ridge	spruce,white	2+1	transplants	09/15/79	transplant beds of spruce and lodgepole pine	502
can.al.pine ridge			seed storage	09/15/79	Seed storage building	503
can.ont.ramore			greenhouses	08/15/80	General view of Ramore private grower; uses waste heat from natural gas compressor station	504
can.nb.juniper	spruce.black	2+1	transplanting	05/15/80	10-row transplanter in action	505
can.nb.second falls			greenhouses	05/15/80	General view of Fraser Inc.'s operations	506
can.nb.second falls	spruce.black	1+0	container	06/15/80	Germinants in multipots; n.b. poor germination(40% filled cavities)	507
can.nb.second falls	spruce.black	2+0	container	06/15/80	Seedlings after two growing seasons in multipots, n.b. mortality and poor growth	508
usa.ga.savannah	pine,loblolly	1+0	seedbeds	03/15/81	General view of Union Camp nursery outside Savannah	509
can.ont.creekside			greenhouses	02/15/82	General view of Dennis' Trevisanuto's nursery outside Thunder Bay	510
can.ont.creekside			greenhouse	02/15/82	Inside of greenhouse to be used to grow seedlings for MNR	511
can.ont.hills			greenhouses	02/15/82	General view of Hill's greenhouses from outside	512
can.ont.hills			greenhouses	02/15/82	general view of construction at Hills for growing of seedlings for MNR	513
can.ont.hodwitz			greenhouse	02/15/82	General view of construction at Hodwitz' to grow seedlings for MNR	514
can.ont.lafleur	pine,jack	1+0	container	05/15/82	View of pine in paperpots grown for MNR at Timmins, Lafleur's	515
can.ont.aidie creek	spruce.black	1+0	container	05/15/82	View inside greenhouse of seedlings in paperpots	516
can.ont.swastika	spruce.black	1+0	cuttings, rooted	05/15/82	Rooted balack spruce cuttings from seedlings(400k produced)	517
can.ont.swastika	spruce.black	1+0	soil mix	05/15/82	Growth of Marchantia in spruce bed resulting from using a purchased soil mix(Promix) which contains alkaline peat,i.e. lime mixed in	518
can.bc.red rock			seedbeds	09/15/82	General view of seedbed lands	519
can.bc.red rock	spruce,white	2+0	seedbeds	09/15/82	View of 2+0seedbeds; bandsown with Phosphorus placement at that time	520
can.bc.red rock	spruce,white	2+0	seedling	09/15/82	Extracted seedling from beds in slide#520; n.b. fibrous root system	521
can.bc.prince george	spruce,white	2+1	transplants	09/15/82	General view of transplant beds of Indutrial Forestry AssociationIFAat Prince George	522
can.bc.prince george	spruce,white	2+1	transplant	09/15/82	Extracted seedling n.b. fibrous roots; IFA nursery cf.slide#522	523
can.bc.prince george			greenhouses	09/15/82	General view of forestry centre and greenhouses of Northwood Pulp atPrince George	524
can.bc.prince george	spruce,white	1+0	container	09/15/82	View in side greenhouse of Northwood Pulp at Prince George	525
can.ont.kenora	pine,jack	1+0	container	07/15/82	View in side Weisgerber's(private grower for MNR) greenhouse in Kenora	526
can.ont.swastika	spruce.black	1+0	container	09/15/82	View of black spruce in paperpots, ready for hardening off.	527
can.nf.grand falls	spruce,black	2+0	seedbeds	06/15/84	General view of seedbeds in new land	528
can.nf.grand falls			greenhouses	06/15/84	General view of seedbeds and greenhouses	529
can.ont.swastika			building	06/15/83	View of new nursery building opened June,1983	530
can.ont.swastika	spruce,black	1+0	container	06/15/83	General view of black spruce in paperpot containers in shade lot	531
can.ont.swastika	spruce,black	1+0	cuttings	06/15/83	Parent stock of full sib cuttings	532
can.ont.swastika	spruce,black	2+0	cuttings	06/15/83	Parent stock,full sib cuttings	533
can.ont.ramore			greenhouses	06/15/83	General view of greenhouse(glass) at Lava Mtn. private grower. This is the old radar property	534
can.ont.ramore	spruce,black	1+0	container	06/15/83	General view inside greenhouse	535
can.ont.val gagne	spruce, black	1+0	container	06/15/83	General view inside Millson's greenhouse(private grower for MNR)	536
can.ont.swastika	spruce,black	1+0	container	07/15/83	View inside plastic house on occasion of academic tour hosted by MNR(KAA's initiative)	537
can.ont.timmins	spruce,black	1+0	container	06/15/83	View of spruce being "hardened off" at Lafleur's greenhouse in Timmins(he is private grower for MNR)	538
can.ont.timmins				06/15/83	Sign in front of Northern Greenhouses(Deluce owned) one of the private growers for MNR; east of Timmins	539
can.ont.timmins	spruce, black	1+0	container	06/15/83	General view of hardening off of early crop and greenhouses	540
can.ont.timmins	spruce,black	1+0	container	06/15/83	View inside Northern Greenhouse's(Stan Deluce-owned) with the peoplefrom the academic tour(Dave Love is visible)	541
can.ont.timmins			hardening off	06/15/83	View of shaded hardening-off area and track for vehicle to carry containers	542
can.ont.thunder bay			greenhouses	08/15/83	Dennis Trevisanuto, owner of Creekside nursery explaining to Bob Carman(Sec'y to Cabinet) about his production of seedlings for MNR	543
can.ont.thunder bay	spruce,black	1+0	transplanting	09/15/85	Container used to raise seedlings in Castle & Cook system. Seedling now ready for transplanting;Thunder Bay MNR nursery	544
can.ont.thunder bay	spruce,black	1+0	transplanting	09/15/85	General view of Castle & Cook seedlings being raised at Thunder Bay nursery of MNR for fiel transplanting	545
can.ont.thunder bay	spruce,black	1+1	transplanting	09/15/85	Extracted transplant after two months in field transplant lines at Thunder Bay MNR nursery	546
can.ont.swastika			aerial	06/15/85	Aerial view of Swastika nursery cf.slides #160,161,162	547
can.ont.timmins			greenhouse	05/23/85	Mary Mogford(Deputy Min. MNR), Stan Deluce, George McCormack at the Northern Greenhouses(owned by Deluce)	548
can.ont.thessalon	pine,red	1+0	container	08/15/84	View of seedlings inside greenhouse	549
can.ont.thessalon			aerial	08/15/84	Aerial views of MNR's Thessalon nursery in the middle of the Kirkwood forest	550
can.ont.thunder bay				05/15/87	Investigation team set up to investigate reasons for loss of 17mm seedlings by private growers in the Thunder Bay area at Hodwitz'	551
can.ont.thunder bay				05/15/87	John Cary asking, "What the hell is this?"	552
can.ont.thunder bay				05/15/87	KAA, John Cary and Gord Oldford looking at dead tres at Creekside nursery(Trevisanuto-owned)	553

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.thunder bay	spruce.black	1+0	container	05/15/87	View if dessicated, dead seedlings at Creekside nursery, part of investigation	554
can.ont.thunder bay	spruce,black	1+0	dessication	05/15/87	View of green and dessicated seedlings to show roots; from beds in slide #554 at Creekside nursery(Trevisanuto)	555

LOCATION	SPECIES	AGE CLASS	ACTIVITY	DATE	DESCRIPTION	NO
can.ont.pass lake	spruce,black	1+0	containers	05/15/87	View of containers to show why there is poor germination; lack of support so that containers are irregular and this causes gaps and compaction	556
can.ont.pass lake	spruce,black	1+0	container	05/15/87	KAA and Keith McClain at Grundy's private greenhouse	557
can.ont.thunder bay	pine,jack	1+0	container	05/15/87	View of one set with only 70% mortality. Why? See other beds in background. This is at Hodwitz'	558
can.ont.thunder bay			restocking	05/15/87	Hodwitz' workers restocking trays, after major losses to dessication	559
can.ont.dorion	spruce, black	1+0	dessication	05/15/87	View of mortality at A&R nursery as a result of dessication	560
can.ont.dorion	spruce,black	1+0	dessication	05/15/87	Views of extracted seedlings showing degree of dessication to mortality at A&R's greenhouse	561
can.ont.midhurst	pine,red	2+0	disease	04/15/88	Poor growth of red pine due to attack by Cylindrocladium spp.	562
can.ont.midhurst	pine,red	2+1	transplant	04/15/88	Middle bed did not have the roots dipped in slurry, while all other seedlings in other beds did	563
can.ont.midhurst	pine,red	2+0	disease	04/15/88	Extracted seedlings showing damage to roots by Cylindrocladium spp. cf.slide#562	564
can.ont.guelph			seedbeds	07/15/06	View of Ontario's first tree nursery at OAC,Guelph; established in 1904 by Prof.Brown	565
can.ont.st.williams			seedbeds	04/15/09	View of first seedbeds being prepared in 1909; the province's first tree nursery(gov.) established 1908	566
can.bc.maple ridge			greenhouses	11/15/91	General view of Pelton's greenhouses;very large production-17mm+	567
can.bc.maple ridge	spruce,white	1+0	container	11/15/91	Extracted seedling from styroblock container, ready for cold storage	568
can.bc.maple ridge	poinsettias	1+0	flowers	11/15/91	Poinsettias grown in "off" season to provide income	569
can.bc.maple ridge	spruce,white	1+0	storage	11/15/91	Removing plugs for packing in winter storage	570
can.ont.alliston	hemlock,eastern	2+2+2	roots	08/15/91	Hemlock extracted to show major root development in summer	571
can.al	spruce, white	2+2		05/15/80	Outplanted 2+2 BR at Cardinal coal mines, N.B. Nitrogen deficiency as shown by chlorosis	572
can.al	spruce, white	1+0		05/15/80	Outplanted container stock at Cardinal coal mines, cf.#572. These container seedlings show no Nitrogen deficiency	573