NEFTIC AFFAIRS

Chairman Edwin L. Giddings

REPORT OF THE COMMITTEE ON IMPROVEMENT OF SPRUCE

James B. Carlaw, Chairman

Status of spruce planting in the Northeast

The current status of the planting of spruce in the Northeast was surveyed this spring by a written inquiry to the responsible officer in each State. The questions related to quantity of production, source of seed and planting instructions.

The results, in general, were:

1.25 million spruce seedlings produced in 1957 of which 57% was white spruce and 43% Norway spruce. An unknown but substantial quantity of the white spruce is used for the production of Christmas trees.

2.The trend is toward tighter control of seed source documentation and toward the use of "home state" seed rather than seed from out-of-state sources.

3.Planting instructions including a check on the site conditions are commonly provided by service foresters.

Maine: All proposed planting sites are examined by State Service Foresters before tree species is granted for reforestation.

Maryl and: All planting sites are examined by a Department Forester before trees are granted for reforestation. Trees are free providing an agreement is signed which prohibits any resale and agrees area will remain in trees for a timber crop (no time limit specified).

Massachusetts: All planting sites are inspected by forester before tree orders are accepted.

New Jersey: No orders for trees accepted unless a Department Forester has inspected site and made a planting plan.

New York: Advice of District Foresters recommended.

Pennsylvania: Advice of District Foresters offered if land owner desires. Application for trees includes description of planting site.

Rhode Island: Service Forester inspects all planting sites insofar as is practical.

Vermont: County Foresters attempt to check all planting sites before owner orders trees. Tentative key to planting sites keyed to drainage., texture., soil series and slope is being field tested.

More detailed results are included in tables 1-4. The Committee wishes to thank each of the persons contributing information for their cooperation.

	8	White spruce :				Norway spruce			
State			In-state	8	Import				
Connecticut1/ Maine Maryland Massachusetts		758,000 <u>2/</u> 120,300 <u>3/</u> 200,000 <u>2/</u> 150,000	17	ջ850 (Ν₀J₀)	243,600 65,540 800,000 290,000		40,000 (N.Y. 237,250 (N.J.	
New Hampshire New Jersey		350,000				534,350		ang ang ang ang	
New York Pennsylvania	1	1,029,700 ,				3,557,000 4,261,400		888	
Rhode Island Vermont		38,000 <u>2</u> / 155,000				764,000		කස සත	
lota1s	1	4,275,000	17	,850		10,515,890		277,250	

Table 1, -- Nursery production, 1957 - Seedling production

1/ 1958 Shipments. 2/ Primarily for Christmas trees. 3/ Included 45,500 white spruce and 32,000 Norway spruce from a private commercial nursery in Maine. Remainder of Maine production.

	4		White	spruce				Norway	spruce	
State	00 68	Home state	New York	Wisc.	Europe	80 BC	Home state	New York	Wisco	Central Europe
Connecticut		1001/2/	-				1003/		0.00	-
Maine		504/	1	50	(m)		255/	75		100
Maryland		1000/					1006/	60.00	1000 CBB	600.000
Massachusetts		1001/	DIG 041	000 000			101/	907/		
New Hampshire		100	Co. 688	anc.	23 00		C21400	100		
New Jersey			2014	00.90			(T) (S)	100 000	INC SEC	1008/
New York		1001/	an an		සය සය		201/	CO HE	(CS)-660	80
Pennsylvania			50		50		255/	-00 =3		75
Vermont		504	507/		an (20)		1001/	cor 60	100.000	

Table 2.---Nursery production, 1957, by seed sources (in percent)

1/ Seed from plantations. 2/ Seed orchards designed for Christmas tree production. 3/ Seed orchard being developed for timber production. 4/ Seed chiefly from natural stands. After 1957 expect to use 100% Maine sources. Prior to 1957 100% of seed from N.Y. and Wisc. sources. 5/ Seed chiefly from planted trees. 6/ Original seed came from Adirondacks. 7/ Seed of Adirondacks origin from private company. 8/ Certified seed from Austria.

State	Site	Spacing	Remarks	
Maine	Does well on moist loamy soils, fairly well on drier sandy loam	6 x 6	Subject to sawflies	
Maryland	Moist heavier soils at elevation 2,500 feet and higher	6 x 6	G8703	
Massachusetts	Heavier soils, more moist sites recommended	6 x 6	Mixtures not recommended	
New Hampshire	Well-drained but moist soils in the north and on loamy soils in south. Potassium deficiency appears when planted on sandy soils.	generally 6 x 6 4 x 4 for Christmas trees	.co.co	
New Jersey	80 CD 28	කා ධන නෙ	88	
New York	Better sites, moist but well drained flats or lower slopes	6 x 6	Mixture with red pine or larch accept- able if spruce removed as Christmas tree	
Pennsylvania	Fertile, moist, well-drained; will grow on sites too wet for other species.	8 x 8	තො යියි	
Rhode Island	Average or good fertility	4 x 4 or 5 x 5 for Christmas trees:	20	
Vermont	Well-drained sandy loams, silt loams and clays. Poorly drained sandy loams and loams.		60.00	

Table 3 .-- Planting Instructions, White spruce

State	Site	Spacing	Remarks
Maine	On moist loam or sand loams avoid very dry or wet sites	6 x 6 to insure recovery from weevil	Do not plant in mixture with white pine
Maryland	cm 63	6 x 6 minimum	200 620
Massachusetts	Same sites as white pine, best growth on the loams and heavier soils	6 x 6 minimum or 8 x 8 (preferred)	Mixtures not recommended; subject to heaving on open or sod land
New Hampshire	Fertile, well-drained loamy soil	generally 6 x 6	625-029 6
New Jersey	Deep, well-drained but not dry	5 x 5	Plant pure or mixed with white pine or larch; where mixed cut spruce as Christmas trees
New York	Good sites; moist but well- drained flats or lower slopes, not on ridge tops or very sandy soil	6 x 6	
Pennsylvania	Deep moist soils, not in low swampy areas	8 x 8 recommended for most species	23 MJ
Rhode Island	Good fertility well-drained but not dry or imperfectly drained on northern exposures	6 x 6	ca:e0
Vermont	Sandy loams (N & E slopes), loams and silt loams, heavy silt loams and clays in sloping areas	69	ലത

.

Table 4 .-- Planting Instructions, Norway spruce