

R. 36/11.

PROGRESS REPORT - MARCH 1936

NURSERY - EXPERIMENTAL WORK



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Project:- Density of Sowing

Kennington Nursery

Experiment 86, P.34.

A density of sowing experiment - Scots pine. It was reported last autumn that at the end of the second season the Scots pine seedlings were very drawn. The densities of sowing tried in this experiment were all unsuitable for raising 2-year Scots pine seedlings in Kennington Nursery. Therefore for this species the experiment has been discontinued.

Experiment 104, P.35.

A density of sowing experiment involving Norway spruce, Sitka spruce and Japanese larch, the object is to ascertain the optimum density of sowing these species for the production of 2-year seedlings. This experiment is in order and will be finally assessed at the end of the 1936 growing season.

Project:- Treatment of Seed before Sowing

Kennington Nursery

Experiment 95, P.35.

An experiment dealing with the stratification of old seed of Scots pine and Douglas fir. The experiment has been finally assessed as at the end of the first year. The results and data obtained will be submitted in the next Nursery progress report.

Experiment 96, P.35.

This is a further trial of the stratification of Corsican pine and Norway spruce seed. The Corsican pine section has been finally assessed as one-year old stock. The Norway spruce will be finally assessed at the end of the second year.

Experiment 97, P.35.

This involves further stratification work on the seed of birch and alder. All plants in the experiment have been lifted and assessed as 1-year old seedlings. The results and data obtained will be submitted in the next Nursery progress report.

Project:- Raising of large seedlings

Kennington Nursery

Intensive Seedling Cultivation Experiment.

Work in this experiment continues. Assessments have been carried out in sections dealing with the production of 1-year seedlings and the resultant data will appear in the 1936

Nursery progress report. The sections planned for the production of 2-year seedlings will be finally assessed at the end of the second year.

Experiment 108, P.35.

This is a trial of Beddgelert peat in seedbeds of Norway spruce, Sitka spruce and Pinus contorta. The seedlings have been lifted and assessed. The summarized data will be submitted in the next Nursery progress report.

Experiment 109, P.35.

This is a trial of Sorbex peat with Norway spruce, Sitka spruce, Pinus contorta and Corsican pine. The position is the same as for Experiment 108.

Experiment 100, P.35.

This deals with early and normal sowings of Japanese larch, Sitka spruce and Pinus contorta. The experiment has been finally assessed as at the end of the first year. The results and data will appear in the 1936 Nursery progress report.

Experiment 81, P.34.

This experiment involves the use of Dr. Rayner's composts. It has been assessed as at the end of the second year. The beds were poor and irregular; there was no visible difference between any of the treatments. The summarized data will be presented in the 1936 report.

Experiment 103, P.35.

This deals with moraine seedbeds. The work is a continuation

of the experiment laid down in P.34. The seedlings have been lifted and assessed as at the end of the first year. The next Nursery progress report will cover the results obtained.

Project:- Weed Control

Kennington Nursery

Experiment 87, P.34.

In this experiment Norway spruce remained for two years in the seedbed. This species has now been assessed finally. The data will be worked up and presented in a subsequent report.

Experiment 101, P.35.

The following species were under treatment for control of weeds in the seedbed: Scots pine, Norway spruce and Douglas fir. The Scots and Douglas have been lifted and assessed as 1-year seedlings. The spruce will remain for another year in the beds before being assessed finally.

Experiment 102, P.35.

This is a continuation of the previous work with various chemicals on seedbeds of birch and alder. The experiment has been subjected to a final assessment as at the end of the first year. The data will be worked up and presented later.

Project:- Bedding out of Seedlings

Kennington Nursery

Experiment 98, P.35.

This is a repetition of previous work in connection with the bedding out of Sitka spruce. The plants have been lifted and assessed finally. The summarized data will be submitted in a subsequent report.

Experiment 99, P.35.

The species in this case is Scots pine. The position is the same as in Experiment 98.

Project:- Nursery Treatment of Hardwoods

Kennington Nursery

Experiment 110, P.35.

This is a trial on Ash seedbeds of various manures. The applications of the manures are based on the figures published by Manshard in the *Therandter Forstliches Jahrbuch* Vol. 1, 84, p.149, 1933. The experiment is in order and will remain another season before being finally assessed.

Experiment 83, P.34.

This involved the stumping of large Juglans nigra transplants. These have been lifted and despatched to Bedgebury. A final examination of the root development was made and the observations will be embodied in the next Nursery progress report.

Experiment 107, P.35.

This experiment involved the stumping of 1-year seedlings

of Juglans regia. The plants should remain for at least another year before being finally assessed.

Experiment 105, P.35.

This is a similar experiment to No. 107, the difference being that Juglans nigra was used instead of the common species. The same observations apply.

Project:- Raising of Large Seedlings

Wykeham Nursery

Experiment 1, P.35.

This is a trial of Sorbex peat in seedbeds, the species under treatment being Pinus contorta and Corsican pine sown broadcast at the standard densities. The experiment will be assessed as at the end of the first year. There is no visible difference between the results of the four treatments either in growth, colour or stocking. The seedlings have shown a considerable improvement in colour during the spring.

Project:- Density of Sowing

Wykeham Nursery

Experiment 2, P.35.

In this experiment both Norway spruce and Sitka spruce were sown at various densities in drills and broadcast with a view to ascertaining the optimum density of sowing for the production of 2-year seedlings. So far there is little visible difference in the various treatments except that in the heaviest sowing, which is $1\frac{1}{2}$ times the standard density, there is a somewhat higher percentage of small seedlings. Both species

look healthy and reasonably sturdy.

The experiment will stand another year before final assessment.

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A density of sowing experiment involving Norway spruce, Sitka spruce and Japanese larch, the object is to ascertain the optimum density of sowing these species for the production of 2-year seedlings. This experiment is in order and will be finally assessed at the end of the 1936 growing season.

Project:- Treatment of Seed before Sowing

Kennington Nursery

Experiment 95, P.35.

An experiment dealing with the stratification of old seed of Scots pine and Douglas fir. The experiment has been finally assessed as at the end of the first year. The results and data obtained will be submitted in the next Nursery progress report.

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This is a further trial of the stratification of Corsican pine and Norway spruce seed. The Corsican pine section has been finally assessed as one-year old stock. The Norway spruce will be finally assessed at the end of the second year.

Experiment 97, P.35.

This involves further stratification work on the seed of birch and alder. All plants in the experiment have been lifted and assessed as 1-year old seedlings. The results and data obtained will be submitted in the next Nursery progress report.

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Intensive Seedling Cultivation Experiment.

Work in this experiment continues. Assessments have been carried out in sections dealing with the production of 1-year seedlings and the resultant data will appear in the 1936

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Experiment 100, P.35.

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Experiment 81, P.34.

This experiment involves the use of Dr. Kayner's composts. It has been assessed as at the end of the second year. The beds were poor and irregular; there was no visible difference between any of the treatments. The summarized data will be presented in the 1936 report.

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This deals with moraine seedbeds. The work is a continuation

of the experiment laid down in P.34. The seedlings have been lifted and assessed as at the end of the first year. The next Nursery progress report will cover the results obtained.

Project:- Weed Control

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In this experiment Norway spruce remained for two years in the seedbed. This species has now been assessed finally. The data will be worked up and presented in a subsequent report.

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The following species were under treatment for control of weeds in the seedbed: Scots pine, Norway spruce and Douglas fir. The Scots and Douglas have been lifted and assessed as 1-year seedlings. The spruce will remain for another year in the beds before being assessed finally.

Experiment 102, P.35.

This is a continuation of the previous work with various chemicals on seedbeds of birch and alder. The experiment has been subjected to a final assessment as at the end of the first year. The data will be worked up and presented later.

Project:- Bedding out of Seedlings

Kennington Nursery

Experiment 98, P.35.

This is a repetition of previous work in connection with the bedding out of Sitka spruce. The plants have been lifted and assessed finally. The summarized data will be submitted in a subsequent report.

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The species in this case is Scots pine. The position is the same as in Experiment 98.

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This is a trial on Ash seedbeds of various manures. The applications of the manures are based on the figures published by Manshard in the Tharandter Forstliches Jahrbuch Vol. 1, 84, p.149, 1933. The experiment is in order and will remain another season before being finally assessed.

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This involved the stumping of large Juglans nigra transplants. These have been lifted and despatched to Bedgebury. A final examination of the root development was made and the observations will be embodied in the next Nursery progress report.

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Wykeham Nursery

Experiment 1, P.35.

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