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## Fältförsök med olika tryckimpregneringsmedel 1966 års revision, nr II

Field Experiments with Different Preservatives  
Applied by Pressure, No II

Revised in 1966

av

M. JOHANSSON

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## FÄLTFÖRSÖK MED OLIKA TRYCKIMPREGNERINGSMEDEL

1966 års revision, nr II.

Redogörelse (Report p. 6).

I detta meddelande redogöres för resultaten beträffande försöken nr:  
8 A, 8 B, 9 A, 10 A, 11 B, 14 A, 14 B, 16 A, 17 A, 19 A, 20 A, 20 AA,  
21 A, 21 AA, 22 A, 22 B och 23 A.

Revideringen utfördes vid följande tidpunkter:

Provfält 1 Simlångsdalen 7/6 - 8/6 1966 (försök 19 A och 20 A)

och 6/10 - 7/10 " (övriga försök)

|   |               |      |      |
|---|---------------|------|------|
| " | 4 Ljungbyholm | 9/6  | "    |
| " | 5 Bogesund    | 2/8  | "    |
| " | 6 Norrfors    | 30/6 | 1965 |
| " | 7 Växthus     | 10/1 | 1967 |

Försök 8 A och 8 B. Stavar och stolpar impregnerade med Bolidensalterna  
S och S 25.

Försöket utsattes 1950 och 1951. Samtliga stavar är utdömda (medd. 78, tab. 1, medd. 82, tab. 12). Rötförloppet framgår av medd. 86, fig. 1.

Försöksresultaten med stolparna framgår av tab. 1. I växthuset var angreppen på de S-impregnerade stolparna måttliga - svåra och på S 25-stolparna måttliga. Inga rötskador förekom på dessa stolpar i Simlångsdalen och Bogesund.

Försök 9 A. Stavar, impregnerade med pentaklorfenol, zink och kromat.

Försöket utsattes 1951 med 170 stavar i Simlångsdalen. Det innefattar impregnering med pentaklorfenol, Na-pentaklorfenolat samt Na-pentaklorfenolat + olika mängder zinksulfat eller kaliumkromat. De upptagna mängderna samt resultatet efter 15 år framgår av tab. 2. Samtliga stavar, innehållande enbart pentaklorfenolat, utdömdes efter 5-6 år. Tillsats av

zink eller kromat har förlängt medelvaraktigheten 2-3 år. Impregnering med pentaklorfenol är dock överlägsen.

Försök 10 A. Stavar, impregnerade med olika fraktioner av kreosotolja.

Försöket utsattes 1951 i Simlångsdalen och omfattade 162 stavar. De använda fraktionerna framgår av fig. 1, som också visar rötförloppet under de 15 åren. Det bästa resultatet har erhållits med kreosotolja, varur baser extraherats ut med 1 % svavelsyra, och det sämsta med fenol-fattig kreosotolja. Extraktion med alkalier ( $\text{NaOH}$ ,  $\text{Ca(OH)}_2$ ) eller en högre fenolhalt medför ingen väsentlig förändring av kreosotoljans rötskyddande egenskaper.

Försök 11 B. Stolpar, impregnerade med BIS-salt och kreosotolja efter olika barkningssätt och med eller utan vattenläggning.

Försökets uppläggning framgår av medd. nr 4 och 86. Tab.3 visar upptagningen samt resultatet efter 15 år i Simlångsdalen. För det oimpregnerade virket är medelvaraktigheten oberoende av förbehandlingen. Upptagningen av impregneringsmedel är betydlig högre för vattenlagt virke än för icke vattenlagt vid den kortaste trycktiden. Med längre trycktider utjämnas denna skillnad. I flera fall kan en lägre rötfrekvens iakttagas i det vattenlagda virket.

Försök 14 A och 14 B. Stavar och stolpar, impregnerade medelst tryckväxling (OPM-metoden).

Försöket uppsattes 1952 i Simlångsdalen och Bogesund och omfattade 300 stavar och 120 stolpar.

Bolidensalt TV innehåller enbart zinksalter medan TV 50 består av 50 % zink och 50 % koppar. Försökets anordning, upptagna kvantiteter salt samt resultatet efter 14 år framgår av tab. 4.

Det kopparhaltiga saltet har genomgående givit det bästa resultatet och speciellt med tallsplint. Impregneringen av gran med TV har ökat dess medelvaraktighet 2-4 år medan flera granstavar, behandlade med TV 50, fort-

farande visar måttliga rötskador.

Resultaten med behandlade stolpar framgår av tab. 5. Även här är TV 50 överlägset, åtminstone i Simlångsdalen. Rötskadorna på tall och gran är av samma storleksordning.

Försök 16 A. Stavar, impregnerade med olika kombinationer av koppar, zink, pentaklorfenol och arsenik.

Försöket utsattes 1953 i Ljungbyholm, Norrfors och i växthuset. Det omfattade totalt 400 stavar. Dessa tryckimpregnerades med lösningar av koppar- och zinksalter, pentaklorfenol,  $\text{As}_2\text{O}_3$  och  $\text{As}_2\text{O}_5$  i koncentrationer, som angivits i tabell 6 och fig. 2, där också upptagningen samt resultatet efter 12 år framgår. I växthuset återstår endast 3 stavar med röta, medan skadorna på stavar utomhus är små. Av resultaten framgår att koppar har en mycket god konserverade effekt, som ytterligare förstärks genom tillsats av pentaklorfenol, arsenik eller zink.

Försök 17 A. Stavar, impregnerade med S 25, KP-Cuprinol, Celcure och kreosotolja.

Hösten 1955 utsattes försöksstavar på fyra olika provfält och i växthus. De behandlade stavar hade impregnerats med S 25, KP-Cuprinol, Celcure och kreosotolja i fem olika koncentrationer. Resultaten efter 11 år framgår av tab. 7.

Av försöksstavar i växthuset återstår endast stavar som har den högsta koncentrationen av kreosotolja.

Av försöksstavar ute på provfälten är angreppen kraftigast i Simlångsdalen.

Rötförloppet beträffande saltmedlen finns åskådliggjort i fig. 3 och 4. En jämförelse av rötförloppet hos kreosotolja och K 33 finns i fig. 5.

Försök 19 A. Stavförsök med Bolidensalterna S 25 och K 33.

Stavförsöket utsattes våren 1957 på fyra försöksfält och i växthus.

Resultatet av revideringen efter 9 års försökstid har sammanställts i tab. 8.

Angrepp i samtliga koncentrationer föreligger bland stavar i växthuset och i Ljungbyholm. Angreppet är kraftigast hos stavar, impregnerade med S 25. Av fig. 6 framgår rötförloppet i Simlångsdalen och i växthuset.

Salterna S, S 25 och K 33 innehåller ungefär lika mycket arsenik och krom. Skillnaden dem emellan beror på olika halt av zink och koppar. Genomgående i försöksserierna är att K 33 är bättre än S 25 och att S 25 är något bättre än S.

Försök 20 A och 20 AA. Stavförsök med K 33, KP-Cuprinol och kreosotolja.

Försöket utsattes 1959 och omfattar 493 stavar, varav 255 i Simlångsdalen och 238 i Bogesund. De tryckimpregnerades med 5 konc. K 33 och KP-Cuprinol samt 6 konc. kreosotolja, varav den högsta konc. är dubbel normalkonc. av respektive medel. De upptagna mängderna samt resultatet efter 7 år framgår av tab. 9. Samtidigt impregnerades bokstavar med 3 konc. KP-Cuprinol (20 AA) (tab. 9).

Försök 21 A och 21 AA. Försök med stavar och ytterplankor, utsågade ur furustolpar, impregnerade med K 33, KP-Cuprinol och kreosotolja.

Stolparna impregnerades med hel och halv normalkoncentration av K 33 och KP-Cuprinol och med en koncentration av kreosotolja. Försökets utförande samt upptagningen angavs i medd. 86.

Försöket utsattes 1959. I Simlångsdalen och Bogesund placerades stavar samt ytter- och mittplankor, medan enbart stavar utsattes i växthuset och i Norrfors. Resultaten efter 7 år framgår av tab. 10. Endast stavar från det yttersta skiktet visar en medelvaraktighet som överstiger den för stavar från oimpregnerade stolpar. Detta visar att inträngningen varit otillräcklig, enär stavar tillhörande skikt 2 och delvis skikt 3 legat utanför kärnvedsgränsen.

Ytter- och mittplankorna visar ett långsammare rötförlopp på grund av grövre dimensioner samt kärnvedshalt.

Försök 22 A och 22 B. Impregnering av björk och bok med K 33, KP-Cuprinol och kreosotolja.

Försöket utsattes 1960 i Simlångsdalen och Bogesund samt omfattar 200 stavar och 80 stolpar. Tab. 11 visar upptagningen av impregneringsmedel samt resultatet av stavförsöket efter 6 år.

En jämförelse mellan de båda träslagen betr. rötangrepp visar att ingen säker skillnad föreligger. Inte heller kan ännu någon skillnad fastställas mellan effekten av K 33 och KP-Cuprinol i detta försök.

Av stolparna visar hittills endast de oimpregnerade rötangrepp.

Försök 23 A. OPM-impregnering av gransplint och grankärna med K 33.

Försöket utsattes 1960 i Simlångsdalen och omfattar 90 stavar. 2 koncentrationer av K 33 användes och behandlingstiden av 8 tim. Av tab. 12 framgår dels upptagningen och dels resultatet efter 6 år. Av stavarne från grankärna har ett stort antal utdömts vid böjningsprovet, medan splintstavarne ännu är friska. I grankärnan blev inträngningen av K 33 obetydlig, vilket gynnar angrepp av bl.a. mögelröta, som snabbt minskar böjhållfastheten.

FIELD EXPERIMENTS WITH DIFFERENT  
PRESERVATIVES APPLIED BY PRESSURE.

Revised in 1966, No II.

The present paper reports on the results nos. 8 A, 8 B, 9 A, 10 A, 11 B, 14 A, 14 B, 16 A, 17 A, 19 A, 20 A, 20 AA, 21 A, 21 AA, 22 A, 22 B and 23 A.

The revision was carried out on the following dates:

| Experimental plot | Location      | Date                                                                                                                                  |
|-------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1                 | Simlångsdalen | June 7 <sup>th</sup> - 8 <sup>th</sup> , 1966 (exp. 19 A and 20 A),<br>Oct. 6 <sup>th</sup> - 7 <sup>th</sup> , 1966 (all other exp.) |
| 4                 | Ljungbyholm   | June 9 <sup>th</sup> , 1966                                                                                                           |
| 5                 | Bogesund      | Aug. 2 <sup>nd</sup> , "                                                                                                              |
| 6                 | Norrfors      | June 30 <sup>th</sup> , "                                                                                                             |
| 7                 | Greenhouse    | Jan. 10 <sup>th</sup> , 1967                                                                                                          |

**Experiment 8 A. Stakes and poles treated with Boliden salt S and S 25.**

The experiment was set up in 1950 and 1951. All the stakes are rejected (cf. report no. 78 (table 1) and report no. 82 (table 12)). The rate of decay is shown in fig. 1. The results with the poles are given in table 1. In the greenhouse the attack on the S-treated poles were moderate - severe and moderate on the S 25-poles. No decay was apparent on the treated poles in Simlångsdalen and Bogesund.

**Experiment 9 A. Stakes treated with pentachlorophenol, zinc and chromate.**

The experiment was set up in 1951 in Simlångsdalen and comprised 170 stakes, treated with pentachlorophenol, sodium pentachlorophenolate and the latter + various amounts of zinc sulphate or potassium chromate. The retention and the result after 15 years are shown in table 2. All stakes, containing only pentachlorophenolate, were rejected after 5-6 years. Addition of zinc or chromate lengthened the average life time 2-3 years. However, treatment with pentachlorophenol is superior.

**Experiment 10 A. Stakes treated with various fractions of creosote.**

The experiment was set up in 1951 in Simlångsdalen and comprised 162 stakes. The fractions used are listed in fig. 2, where also the rate of decay during the 15 years is shown. The best result was obtained with creosote, from which alkaline substances were extracted with 1 % sulphuric acid. Phenol-poor creosote was inferior to all other fractions. Extraction with hydroxides ( $\text{NaOH}$ ,  $\text{Ca}(\text{OH})_2$ ) or a higher concentration of phenols caused no remarkable change of the preserving effect of creosote.

**Experiment 11 B. Posts, treated with Boliden salt BIS and creosote after peeling by different methods, with and without water storing.**

The methods were described in Report No. 86.

Table 3 shows the retention and the results after 15 years in Simlångsdalen. As to the untreated posts the average life time is independent of the peeling. Water storing favours the retention at the shortest pressure time. With increasing pressure time this difference was diminished. In several cases less decay was found in the water stored wood.

**Experiment 14 A and 14 B. Stakes and poles treated with Boliden salts using the oscillating pressure method (OPM).**

The experiment was set up in 1952 in Simlångsdalen and Bogesund and



comprised 300 stakes and 120 poles. The Boliden salts TV and TV 50 were used. TV contains only zinc salts while TV 50 contains 50 % zinc and 50 % copper salts. The arrangement of the experiment, the retention and the result after 14 years are shown in table 4. The copper-containing salt has given the best result, especially with pine sap wood. Treatment of spruce with TV increased its average life time 2 - 4 years, whereas several spruce stakes, treated with TV 50, are still sound or moderately decayed.

Table 5 shows the results obtained with treated poles. Also here TV 50 is superior, at least in Simlångsdalen. The degree of decay is about equal on pine and spruce.

Experiment 16 A. Stakes, treated with various combinations of copper, zinc, pentachlorophenol and arsenic.

The experiment was set up in 1953 in Ljungbyholm, Norrfors and in the greenhouse and comprised 400 stakes. They were treated with solutions of copper and zinc salts, pentachlorophenol,  $\text{As}_2\text{O}_3$  and  $\text{As}_2\text{O}_5$  in concentrations, shown in table 6 and fig. 3, where also the retention of the preservatives and the results after 13 years are found.

In the greenhouse only 3, decayed, stakes are remaining, whereas the stakes at the fields are slightly attacked. From the results is found that copper has a strong protective effect which is further increased by the addition of pentachlorophenol, arsenic or zinc.

Experiment 17 A. Stakes treated with S 25, KP-Cuprinol, Celcure and creosote.

In autumn, 1955, the stakes were set out in four different places in the field, and in the greenhouse. The treated stakes had been impregnated with five different concentrations of S 25, KP-Cuprinol, Celcure and creosote. The results of the examination of the stakes are in table 7.

Of the stakes in the greenhouse seven of those treated with the highest concentration of creosote are left.

The most severe attack on stakes in the field occurred at Simlångsdalen.

The rate of decay is shown, in regard to the salts, in figs. 4 and 5. Fig. 6 is a comparison of the rate of decay for creosote and for K 33.

Experiment 19 A. Stake experiments with Boliden salts S 25 and K 33.

The stake experiment was set up in spring, 1957, at four places in the field, and in the greenhouse. The result of the examination after 9 years is shown in table 8. The stakes in the greenhouse and in Ljungbyholm have suffered attack in all concentrations. The attack is most severe in stakes treated with S 25. In fig. 7 is shown the rate of decay in Simlångsdalen and in the greenhouse.

The salts S, S 25 and K 33 contain approximately the same amounts of arsenic and chromium. The differences between them depend on different contents of zinc and copper. In S there is no copper, in K 33 there is no zinc, S 25 contains both zinc and copper. Throughout all the experimental series, K 33 is better than S 25, and S 25 is somewhat better than S.

Experiments 20 A and 20 AA. Stakes treated with K 33, KP-Cuprinol and creosote.

The experiment was set up in 1959 in Simlångsdalen and Bogesund and comprises 493 stakes. They were treated with 5 concentrations of K 33 and KP-Cuprinol and 6 concentrations of creosote. The highest concentration used is twice the normal concentration. The retention and the result after 7 years are shown in table 9. Simultaneously beech-stakes were treated with 3 concentrations of KP-Cuprinol (20 AA) (table 9).

Experiments 21 A and 21 AA. Stakes and deals excised from pine poles treated with K 33, KP-Cuprinol and creosote.

The poles were treated with normal and half normal concentration of K 33 and KP-Cuprinol and with one concentration of creosote. The methods

used and the retention were given in Report No. 86.

The experiment was set up in 1959. Stakes, outer and middle deals were placed in Simlångsdalen and Bogesund. In Norrfors and in the greenhouse only stakes were placed. The result after 7 years is illustrated in table 10. Only the stakes taken from the outermost layer show an average life time exceeding that of the untreated ones. This indicates that the penetration has been insufficient, as stakes from layer no. 2 and partly no. 3 were situated outside the heart wood. The outer and middle deals show a slower rate of decay because of larger dimensions and content of heart wood.

Experiments 22 A and 22 B. Stakes and posts of birch and beech, treated with K 33, KP-Cuprinol and creosote.

The experiments were set up in 1960 in Simlångsdalen and Bogesund and comprised 200 stakes and 80 posts. Table 11 shows the retention of the preservatives and the result of the stake tests after 6 years.

A comparison between the two wood specimens as to the decay indicates no significant difference. Neither can any difference between the effects of K 33 and KP-Cuprinol yet be established.

So far only the untreated posts show decay.

Experiment 23 A. Stakes of spruce sap and heart wood, treated with K 33 by the OPM-method.

The experiment was set up in 1960 in Simlångsdalen and comprised 90 stakes. Two concentrations of K 33 were used and the time of treatment was 8 hours.

Table 12 shows the retention and also the results after 6 years. Of the stakes from the heart wood a large number has been rejected by the bending test, whereas the sap wood stakes are still sound. The penetration of the heart wood was very insignificant, which favours attacks of soft rot resulting in a rapid loss of the bending strength.

Tabell 1. 8 B: Stolpförsök med Bolidensalterna S och S 25; resultat efter 14 år i växthus och 15 år på provfälten Bogesund och Simlångsdalen.

8 B: Tests with posts treated with the Boliden salts S and S 25; results after 14 years in the greenhouse and 15 years on the experiment plots at Bogesund and Simlångsdalen.

| Provfält<br>Experiment<br>plot    | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                    | Antal<br>stolpar<br>No. of<br>posts | Stolparnas tillstånd<br>Condition of specimens |                       |                         | Röt-<br>styrka<br>Index<br>of<br>decay | Varak-<br>tighet<br>år<br>Av.<br>life<br>years |
|-----------------------------------|-----------------------------------------|-----------------------------|--------------------|-------------------------------------|------------------------------------------------|-----------------------|-------------------------|----------------------------------------|------------------------------------------------|
|                                   |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu.f. |                                     | Friska<br>Sound                                | Med<br>röta<br>Decay- | Utdömda<br>Re-<br>moved |                                        |                                                |
| Växthus<br>Green-<br>house<br>VII | Bolidensalt S                           | 11.8                        | 0.78               | 8                                   | -                                              | 8                     | -                       | 71.3                                   | 0.8                                            |
|                                   | " S 25                                  | 13.0                        | 0.81               | 10                                  | -                                              | 10                    | -                       | 42.5                                   |                                                |
|                                   | oimpregnerade<br>untreated              |                             |                    | 5                                   | -                                              | -                     | 5                       | 100                                    |                                                |
| Bogesund<br>V                     | Bolidensalt S                           | 12.0                        | 0.75               | 7                                   | -                                              | 7                     | -                       | 32.4                                   | 10.3                                           |
|                                   | " S 25                                  | 11.6                        | 0.72               | 9                                   | 1                                              | 8                     | -                       | 22.4                                   |                                                |
|                                   | oimpregnerade<br>untreated              |                             |                    | 20                                  | -                                              | -                     | 20                      | 100                                    |                                                |
| Simlångs-<br>dalen<br>I           | Bolidensalt S                           | 10.5                        | 0.66               | 10                                  | 10                                             | -                     | -                       | 0                                      | 6.2                                            |
|                                   | " S 25                                  | 12.0                        | 0.75               | 10                                  | 10                                             | -                     | -                       | 0                                      |                                                |
|                                   | oimpregnerade<br>untreated              |                             |                    | 10                                  | -                                              | -                     | 10                      | 100                                    |                                                |

Tabell 2. 9 A: Stavförsök med pentaklorfenol, natriumpentaklorfenolat, natriumpentaklorfenolat + zinksulfat eller kaliumkromat. Resultat efter 15 år i Simlångsdalen.

9 A: Test of stakes, treated with pentachlorophenol, sodium pentachlorophenolate, sodium pentachlorophenolate + zinc sulphate or potassium chromate. Results after 15 years. Simlångsdalen.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative   | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of decay | Medel-<br>varaktig-<br>het, år<br>Av. life<br>years |
|-------------------------------|-------------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|-------------------------------------|-----------------------------------------------------|
|                               |                                           | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                     |                                                     |
| Simlångs-<br>dalen            | Oimpregnerat<br>Untreated                 | -                           | -                   | -                                             | -                            | 10                       | 100                                 | 4.0                                                 |
|                               | Pentaklorfenol                            |                             |                     |                                               |                              |                          |                                     |                                                     |
|                               | Pentachlorophenol                         | 35.4                        | 2.21                | 8                                             | 2                            | -                        | 5.0                                 |                                                     |
|                               | "                                         | 20.5                        | 1.28                | 10                                            | -                            | -                        | 0                                   |                                                     |
|                               | "                                         | 9.5                         | 0.59                | 2                                             | 8                            | -                        | 22.5                                |                                                     |
|                               | "                                         | 4.5                         | 0.28                | -                                             | 10                           | -                        | 50.0                                |                                                     |
|                               | Na-pentaklor-<br>fenolat                  | 58.2                        | 3.64                | -                                             | -                            | 10                       | 100                                 | 6.1                                                 |
|                               |                                           | 28.9                        | 1.81                | -                                             | -                            | 10                       | 100                                 | 5.7                                                 |
|                               | Sodium penta-<br>chlorophenolate          | 14.3                        | 0.89                | -                                             | -                            | 10                       | 100                                 | 5.1                                                 |
|                               |                                           | 6.9                         | 0.43                | -                                             | -                            | 10                       | 100                                 | 4.7                                                 |
|                               | 1)<br>" + ZnSO <sub>4</sub>               | 55.3                        | 3.46                | -                                             | 1                            | 4                        | 90.0                                |                                                     |
|                               |                                           | 21.7                        | 1.36                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 27.1                        | 1.69                | -                                             | -                            | 5                        | 100                                 | 8.8                                                 |
|                               |                                           | 11.9                        | 0.74                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 13.3                        | 0.83                | -                                             | -                            | 5                        | 100                                 | 8.2                                                 |
|                               |                                           | 6.3                         | 0.39                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 6.8                         | 0.42                | -                                             | -                            | 5                        | 100                                 | 5.2                                                 |
|                               |                                           | 3.2                         | 0.20                | -                                             |                              |                          |                                     |                                                     |
|                               | 1)<br>" + K <sub>2</sub> CrO <sub>4</sub> | 28.1                        | 1.76                | -                                             | -                            | 15                       | 100                                 | 8.1                                                 |
|                               |                                           | 9.4                         | 0.59                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 11.7                        | 0.73                | -                                             | -                            | 15                       | 100                                 | 7.2                                                 |
|                               |                                           | 3.9                         | 0.24                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 5.9                         | 0.37                | -                                             | -                            | 15                       | 100                                 | 6.6                                                 |
|                               |                                           | 2.0                         | 0.12                | -                                             |                              |                          |                                     |                                                     |
|                               | "                                         | 3.3                         | 0.21                | -                                             | -                            | 15                       | 92.5                                | 7.6                                                 |
|                               |                                           | 1.1                         | 0.07                | -                                             |                              |                          |                                     |                                                     |

1) Upptagning: övre raden: total mängd; undre raden: mängd ZnSO<sub>4</sub> resp. K<sub>2</sub>CrO<sub>4</sub>.  
Retention: upper line: total amount; lower line: amount of ZnSO<sub>4</sub> and K<sub>2</sub>CrO<sub>4</sub>, resp.

Tabell 3. 11 B: Stolpar, impregnerade med Boliden-salt BIS och kreosotolja efter olika barkningsförfaranden (se sid. 2), vattenlagda och inte vattenlagda. Olika trycktider. Resultat efter 15 år. Simlångsdalen.

11 B: Posts, treated with Boliden salt BIS and creosote after various methods of peeling (cf. p. 7), with and without water storing. Different pressure times. Results after 15 years. Simlångsdalen.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stolparnas tillstånd<br>Condition of specimens |                              |                         | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|------------------------------------------------|------------------------------|-------------------------|----------------------------------------|-------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                                | Med<br>röta<br>Decay-<br>ing | Utdöda<br>Re-<br>jected |                                        |                                                       |
| Simlångs-<br>dalen            | Oimpregnerad<br>Untreated               |                             |                     |                                                |                              |                         |                                        |                                                       |
|                               | Barkning<br>Peeling                     |                             |                     |                                                |                              |                         |                                        |                                                       |
|                               | (1)                                     | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 9.0                                                   |
|                               | vattenl.<br>water st.                   | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 9.8                                                   |
|                               | (2)                                     | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 10.5                                                  |
|                               | vattenl.<br>water st.                   | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 9.3                                                   |
|                               | (3)                                     | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 9.0                                                   |
|                               | vattenl.<br>water st.                   | -                           | -                   | -                                              | -                            | 5                       | 100                                    | 9.3                                                   |
|                               | 1)<br>Boliden-salt BIS                  |                             |                     |                                                |                              |                         |                                        |                                                       |
|                               | (1)                                     | 4.53                        | 0.28                | 1                                              | 2                            | -                       | 16.7                                   |                                                       |
|                               | vattenl.<br>water st.                   | 7.97                        | 0.50                | 2                                              | 1                            | -                       | 8.4                                    |                                                       |
|                               | (2)                                     | 4.31                        | 0.27                | 3                                              | -                            | -                       | 0                                      |                                                       |
|                               | vattenl.<br>water st.                   | 8.65                        | 0.54                | 1                                              | 2                            | -                       | 16.7                                   |                                                       |
|                               | (3)                                     | 5.10                        | 0.32                | -                                              | 3                            | -                       | 25.0                                   |                                                       |
|                               | vattenl.<br>water st.                   | 7.85                        | 0.49                | 1                                              | 2                            | -                       | 16.7                                   |                                                       |

1) 2 %, 30 min. vacuum, 5 min. tryck. (pressure).

Tab. 3, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stolparnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|------------------------------------------------|------------------------------|--------------------------|-------------------------------------|-------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                                | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                     |                                                       |
| Simlångs-<br>dalen            | Boliden-salt BIS <sup>2)</sup>          |                             |                     |                                                |                              |                          |                                     |                                                       |
|                               | (1)                                     | 7.31                        | 0.46                | 2                                              | 1                            | -                        | 8.4                                 |                                                       |
|                               | vattenl.<br>water st.                   | 0.41                        | 0.59                | 1                                              | 2                            | -                        | 16.7                                |                                                       |
|                               | (2)                                     | 6.69                        | 0.42                | 2                                              | 1                            | -                        | 16.7                                |                                                       |
|                               | vattenl.<br>water st.                   | 7.81                        | 0.49                | -                                              | 3                            | -                        | 25.0                                |                                                       |
|                               | (3)                                     | 7.55                        | 0.47                | -                                              | 3                            | -                        | 25.0                                |                                                       |
|                               | vattenl.<br>water st.                   | 8.13                        | 0.51                | 2                                              | 1                            | -                        | 8.4                                 |                                                       |
|                               | Boliden-salt BIS <sup>3)</sup>          |                             |                     |                                                |                              |                          |                                     |                                                       |
|                               | (1)                                     | 8.47                        | 0.53                | 1                                              | 2                            | -                        | 16.7                                |                                                       |
|                               | vattenl.<br>water st.                   | 8.31                        | 0.52                | 2                                              | 1                            | -                        | 8.4                                 |                                                       |
|                               | (2)                                     | 8.10                        | 0.51                | -                                              | 3                            | -                        | 25.0                                |                                                       |
|                               | vattenl.<br>water st.                   | 8.87                        | 0.55                | 2                                              | 1                            | -                        | 8.4                                 |                                                       |
|                               | (3)                                     | 8.63                        | 0.54                | 1                                              | 2                            | -                        | 16.7                                |                                                       |
|                               | vattenl.<br>water st.                   | 10.2                        | 0.64                | 1                                              | 2                            | -                        | 16.7                                |                                                       |
|                               | Kreosotolja<br>Creosote                 |                             |                     |                                                |                              |                          |                                     |                                                       |
|                               | (1)                                     | 80.5                        | 5.05                | 3                                              | -                            | -                        | 0                                   |                                                       |
|                               | vattenl.<br>water st.                   | 115.0                       | 7.15                | 3                                              | -                            | -                        | 0                                   |                                                       |
|                               | (2)                                     | 75.0                        | 4.70                | 1                                              | 1                            | -                        | 25.0                                |                                                       |
|                               | vattenl.<br>water st.                   | 131.0                       | 8.20                | 4                                              | -                            | -                        | 0                                   |                                                       |
|                               | (3)                                     | 69.3                        | 4.33                | 3                                              | -                            | -                        | 0                                   |                                                       |
|                               | vattenl.<br>water st.                   | 114.0                       | 7.14                | 3                                              | -                            | -                        | 0                                   |                                                       |

2) 2 %, 30 min. vacuum, 30 min. tryck (pressure).

3) " , " " , 120 " " ( " ),

Tabell 4. 14 A: Stavförsök med impregnering medelst tryckväxling (OPM-metoden) med Boliden-salt. Resultat efter 14 år i Simlångsdalen och Bogesund.

14 A: Test of stakes treated with Boliden salt, using the oscillating pressure method (OPM). Results after 14 years in Simlångsdalen and Bogesund.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                        |                                                     |
| Bogesund                      | Tall, splint<br>Pine, sap wood          |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 5.1                                                 |
|                               | Boliden-salt TV                         | 11.32                       | 0.71                | -                                             | -                            | 10                       | 100                                    | 7.3                                                 |
|                               | " "                                     | 7.97                        | 0.50                | -                                             | -                            | 10                       | 100                                    | 8.1                                                 |
|                               | " TV 50                                 | 14.57                       | 0.91                | 6                                             | 2                            | 2                        | 25                                     |                                                     |
|                               | " "                                     | 8.53                        | 0.53                | 3                                             | 3                            | 4                        | 47.5                                   |                                                     |
|                               | Gran, splint<br>Spruce, sap wood        |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 4.8                                                 |
|                               | Boliden-salt TV                         | 8.34                        | 0.52                | -                                             | -                            | 10                       | 100                                    | 7.0                                                 |
|                               | " "                                     | 6.77                        | 0.42                | -                                             | -                            | 10                       | 100                                    | 7.5                                                 |
|                               | " TV 50                                 | 10.69                       | 0.67                | -                                             | 3                            | 7                        | 77.5                                   |                                                     |
|                               | " "                                     | 7.11                        | 0.44                | -                                             | 4                            | 6                        | 75.0                                   |                                                     |
|                               | Gran, kärna<br>Spruce, heart wood       |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 7.3                                                 |
|                               | Boliden-salt TV                         | 2.34                        | 0.15                | -                                             | -                            | 10                       | 100                                    | 7.0                                                 |
|                               | " "                                     | 1.97                        | 0.12                | -                                             | -                            | 10                       | 100                                    | 7.7                                                 |
|                               | " TV 50                                 | 3.68                        | 0.23                | -                                             | 1                            | 9                        | 95.0                                   |                                                     |
|                               | " "                                     | 1.48                        | 0.09                | -                                             | -                            | 10                       | 100                                    | 7.7                                                 |



Tab. 4, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                        |                                                     |
| Simlångs-<br>dalen            | Tall, splint                            |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Pine, sap wood                          |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 3.9                                                 |
|                               | Boliden-salt TV                         | 11.32                       | 0.71                | -                                             | -                            | 10                       | 100                                    | 8.4                                                 |
|                               | " "                                     | 7.97                        | 0.50                | -                                             | -                            | 10                       | 100                                    | 8.5                                                 |
|                               | " TV 50                                 | 14.57                       | 0.91                | 2                                             | 1                            | 7                        | 75.0                                   |                                                     |
|                               | " "                                     | 8.53                        | 0.53                | -                                             | 1                            | 9                        | 97.5                                   |                                                     |
|                               | Gran, splint                            |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Spruce, sap wood                        |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 3.8                                                 |
|                               | Boliden-salt TV                         | 8.34                        | 0.52                | -                                             | -                            | 10                       | 100                                    | 6.6                                                 |
|                               | " "                                     | 6.77                        | 0.42                | -                                             | -                            | 10                       | 100                                    | 7.4                                                 |
|                               | " TV 50                                 | 10.69                       | 0.67                | -                                             | 2                            | 8                        | 87.5                                   |                                                     |
|                               | " "                                     | 7.11                        | 0.44                | -                                             | -                            | 10                       | 100                                    | 10.0                                                |
|                               | Gran, kärna                             |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Spruce, heart wood                      |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 6.8                                                 |
|                               | Boliden-salt TV                         | 2.34                        | 0.15                | -                                             | -                            | 10                       | 100                                    | 6.7                                                 |
|                               | " "                                     | 1.97                        | 0.12                | -                                             | -                            | 10                       | 100                                    | 7.8                                                 |
|                               | " TV 50                                 | 3.68                        | 0.23                | -                                             | -                            | 10                       | 100                                    | 8.2                                                 |
|                               | " "                                     | 1.48                        | 0.09                | -                                             | -                            | 10                       | 100                                    | 7.9                                                 |

Tabell 5. 14 B: Stolpförsök med impregnering medelst tryckväxling (OPM-metoden) med Boliden-salt TV och TV 50. Resultat efter 14 år i Simlångsdalen och Bogesund.

14 B: Test of poles, treated with Boliden salt TV and TV 50, using the oscillating pressure method (OPM). Results after 14 years in Simlångsdalen and Bogesund.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                    | Stolparnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varaktig-<br>het, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|--------------------|------------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu.f. | Friska<br>Sound                                | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen            | Tall (Pine)                             |                             |                    |                                                |                              |                          |                                        |                                                     |
|                               | Oimpregnerade<br>Untreated              | -                           | -                  | -                                              | -                            | 10                       | 100                                    | 7.2                                                 |
|                               | Bolidensalt TV                          | 1.29                        |                    | 5                                              | 5                            | -                        | 12.5                                   |                                                     |
|                               | " TV 50                                 | 2.05                        |                    | 10                                             | -                            | -                        | 0                                      |                                                     |
|                               | Gran (Spruce)                           |                             |                    |                                                |                              |                          |                                        |                                                     |
|                               | Oimpregnerade<br>Untreated              | -                           | -                  | -                                              | -                            | 10                       | 100                                    | 7.2                                                 |
| Bogesund                      | Bolidensalt TV                          | 1.50                        |                    | 6                                              | 4                            | -                        | 10.0                                   |                                                     |
|                               | " TV 50                                 | 2.52                        |                    | 10                                             | -                            | -                        | 0                                      |                                                     |
|                               | Tall (Pine)                             |                             |                    |                                                |                              |                          |                                        |                                                     |
|                               | Oimpregnerade<br>Untreated              | -                           | -                  | -                                              | 10                           | -                        | 27.5                                   |                                                     |
|                               | Bolidensalt TV                          | 1.35                        | 0.08               | 10                                             | -                            | -                        | 0                                      |                                                     |
|                               | " TV 50                                 | 1.82                        | 0.11               | 10                                             | -                            | -                        | 0                                      |                                                     |
|                               | Gran (Spruce)                           |                             |                    |                                                |                              |                          |                                        |                                                     |
|                               | Oimpregnerade<br>Untreated              | -                           | -                  | -                                              | 7                            | 3                        | 50.0                                   |                                                     |
|                               | Bolidensalt TV                          | 3.44                        | 0.21               | 10                                             | -                            | -                        | 0                                      |                                                     |
|                               | " TV 50                                 | 2.19                        | 0.14               | 10                                             | -                            | -                        | 0                                      |                                                     |

Tabell 6. 16 A: Försök med stavar, impregnerade med olika kombinationer av koppar, zink, pentaklorfenol, arseniktrioxid och arsenikpentoxid. Resultat efter 13 år. Växthus, Ljungbyholm och Norrfors.

16 A: Tests of stakes, treated with various combinations of copper, zinc, pentachlorophenol, arsenic trioxide and arsenic pentoxide. Results after 13 years. Greenhouse, Ljungbyholm and Norrfors.

| Impregnerings-<br>medel<br><br>Preservative                          | Upptagning    Stavarnas tillstånd<br>Retention    Condition of specimens |                    |                 |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|-----------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                                                      | Kg<br>per<br>m <sup>3</sup>                                              | Lb<br>per<br>cu.f. | Friska<br>Sound | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| <u>Växthus</u>                                                       |                                                                          |                    |                 |                              |                          |                                        |                                                     |
| Greenhouse                                                           |                                                                          |                    |                 |                              |                          |                                        |                                                     |
| Oimpregnerade<br>Untreated                                           |                                                                          |                    | -               | -                            | 10                       | 100                                    | 0.6                                                 |
| 53 A 6: 0.6 % Cu                                                     | 4.3                                                                      | 0.27               | -               | 1                            | 9                        | 95.0                                   |                                                     |
| 53 A 4: 0.4 % Cu                                                     | 2.8                                                                      | 0.18               | -               | -                            | 10                       | 100                                    | 7.9                                                 |
| 53 B 8: 0.133 % Cu, 1.667 % Zn                                       | 5.7                                                                      | 0.36               | -               | -                            | 10                       | 100                                    | 5.7                                                 |
| 53 B 6: 0.1 % Cu, 0.5 % Zn                                           | 4.3                                                                      | 0.27               | -               | -                            | 10                       | 100                                    | 4.4                                                 |
| 53 D 6: 0.6 % Cu, 0.3 % Pe                                           | 6.4                                                                      | 0.40               | -               | -                            | 10                       | 100                                    | 10.4                                                |
| 53 D 4: 0.4 % Cu, 0.2 % Pe                                           | 4.2                                                                      | 0.26               | -               | -                            | 10                       | 100                                    | 9.1                                                 |
| 53 E 4: 0.4 % Cu, 0.4 % Pe                                           | 5.6                                                                      | 0.35               | -               | 1                            | 9                        | 95.0                                   |                                                     |
| 53 F 6: 0.6 % Cu, 0.31 % As <sub>2</sub> O <sub>3</sub>              | 6.5                                                                      | 0.41               | -               | 1                            | 9                        | 95.0                                   |                                                     |
| 53 F 4: 0.4 % Cu, 0.2 % As <sub>2</sub> O <sub>3</sub>               | 4.2                                                                      | 0.26               | -               | -                            | 10                       | 100                                    | 8.8                                                 |
| 53 G 6: 0.1 % Cu, 0.5 % Zn,<br>0.25 % As <sub>2</sub> O <sub>5</sub> | 6.0                                                                      | 0.39               | -               | -                            | 10                       | 100                                    | 3.6                                                 |
| <u>Ljungbyholm</u>                                                   |                                                                          |                    |                 |                              |                          |                                        |                                                     |
| Oimpregnerade<br>Untreated                                           |                                                                          |                    | -               | -                            | 10                       | 100                                    | 4.0                                                 |
| 53 A 6: 0.6 % Cu                                                     | 4.3                                                                      | 0.27               | 6               | 4                            | -                        | 10.0                                   |                                                     |
| 53 A 4: 0.4 % Cu                                                     | 2.8                                                                      | 0.18               | 3               | 7                            | -                        | 17.5                                   |                                                     |
| 53 A 3: 0.3 % Cu                                                     | 2.1                                                                      | 0.13               | 6               | 4                            | 12                       | 10.0                                   |                                                     |
| 53 B 8: 0.133 % Cu, 0.667 % Zn                                       | 5.7                                                                      | 0.36               | 7               | 3                            | -                        | 7.5                                    |                                                     |
| 53 B 6: 0.1 % Cu, 0.5 % Zn                                           | 4.3                                                                      | 0.27               | 1               | 9                            | -                        | 25.0                                   |                                                     |
| 53 C 8: 0.8 % Pe                                                     | 5.0                                                                      | 0.35               | -               | -                            | 10                       | 100                                    | 9.0                                                 |
| 53 D 6: 0.6 % Cu, 0.3 % Pe                                           | 6.3                                                                      | 0.39               | 10              | -                            | -                        | 0                                      |                                                     |

Tab. 6. forts.

| Impregnerings-<br>medel<br>Preservative                              | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varaktig-<br>het, år<br>Av. life<br>years |
|----------------------------------------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                                                      | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| <u>Ljungbyholm</u>                                                   |                             |                     |                                               |                              |                          |                                        |                                                     |
| 53 D 4: 0.4 % Cu, 0.2 % Pe                                           | 4.2                         | 0.26                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
| 53 D 3: 0.3 % Cu, 0.15 % Pe                                          | 3.1                         | 0.19                | 3                                             | 7                            | -                        | 17.5                                   |                                                     |
| 53 E 4: 0.4 % Cu, 0.4 % Pe                                           | 5.6                         | 0.35                | 4                                             | 6                            | -                        | 15.0                                   |                                                     |
| 53 F 6: 0.6 % Cu, 0.31 % As <sub>2</sub> O <sub>3</sub>              | 7.4                         | 0.46                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
| 53 F 4: 0.4 % Cu, 0.2 % As <sub>2</sub> O <sub>3</sub>               | 4.2                         | 0.26                | 7                                             | 3                            | -                        | 7.5                                    |                                                     |
| 53 F 3: 0.3 % Cu, 0.155 % As <sub>2</sub> O <sub>3</sub>             | 3.3                         | 0.21                | 5                                             | 5                            | -                        | 12.5                                   |                                                     |
| 53 G 6: 0.1 % Cu, 0.5 % Zn,<br>0.25 % As <sub>2</sub> O <sub>5</sub> | 5.5                         | 0.34                | -                                             | 10                           | -                        | 40.0                                   |                                                     |
| <u>Norrfors</u>                                                      |                             |                     |                                               |                              |                          |                                        |                                                     |
| Oimpregnerade<br>Untreated                                           |                             |                     | -                                             | -                            | 10                       | 100                                    | 5.5                                                 |
| 53 A 6: 0.6 % Cu                                                     | 4.2                         | 0.26                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 A 4: 0.4 % Cu                                                     | 2.8                         | 0.18                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 A 3: 0.3 % Cu                                                     | 2.1                         | 0.12                | 7                                             | 1                            | 2                        | 22.5                                   |                                                     |
| 53 B 8: 0.133 % Cu, 0.667 % Zn                                       | 5.7                         | 0.36                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
| 53 B 6: 0.1 % Cu, 0.5 % Zn                                           | 4.3                         | 0.27                | 6                                             | 3                            | 1                        | 17.5                                   |                                                     |
| 53 D 6: 0.6 % Cu, 0.3 % Pe                                           | 4.2                         | 0.26                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 D 4: 0.4 % Cu, 0.2 % Pe                                           | 4.2                         | 0.26                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 D 3: 0.3 % Cu, 0.15 % Pe                                          | 3.2                         | 0.20                | 9                                             | -                            | -                        | 2.5                                    |                                                     |
| 53 E 4: 0.4 % Cu, 0.4 % Pe                                           | 5.6                         | 0.35                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 F 6: 0.6 % Cu, 0.31 % As <sub>2</sub> O <sub>3</sub>              | 6.3                         | 0.39                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 F 4: 0.4 % Cu, 0.2 % As <sub>2</sub> O <sub>3</sub>               | 4.2                         | 0.26                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 F 3: 0.3 % Cu, 0.155 % As <sub>2</sub> O <sub>3</sub>             | 3.1                         | 0.19                | 10                                            | -                            | -                        | 0                                      |                                                     |
| 53 G 6: 0.1 % Cu, 0.5 % Zn,<br>0.25 % As <sub>2</sub> O <sub>3</sub> | 6.2                         | 0.39                | 8                                             | 2                            | -                        | 7.5                                    |                                                     |

Tabell 7. 17 A: Stavförsök med S 25, KP, Celcure och kreosotolja; resultat efter 11 år på provfälten 1, 4 - 7.

17 A: Tests of stakes treated with S 25, KP, Celcure and creosote; results after 11 years on experimental plots No. 1, 4 - 7.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                    | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|--------------------|-----------------------------------------------|------------------------------|--------------------------|-------------------------------------|-------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu.f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                     |                                                       |
| Simlångs-<br>dalen            | Oimpregnerat<br>Untreated               | -                           | -                  | -                                             | -                            | 20                       | 100                                 | 2.2                                                   |
|                               | S 25                                    | 19.8                        | 1.24               | 13                                            | 6                            | 1                        | 13.8                                |                                                       |
|                               | "                                       | 9.9                         | 0.62               | -                                             | 2                            | 18                       | 96.2                                |                                                       |
|                               | "                                       | 4.9                         | 0.31               | -                                             | -                            | 20                       | 100                                 | 6.6                                                   |
|                               | "                                       | 2.4                         | 0.15               | -                                             | -                            | 20                       | 100                                 | 5.8                                                   |
|                               | "                                       | 1.0                         | 0.06               | -                                             | -                            | 20                       | 100                                 | 3.1                                                   |
|                               | KP                                      | 5.6                         | 0.35               | 3                                             | 7                            | -                        | 17.5                                |                                                       |
|                               | "                                       | 2.9                         | 0.18               | -                                             | 6                            | 4                        | 67.5                                |                                                       |
|                               | "                                       | 1.4                         | 0.09               | -                                             | -                            | 10                       | 100                                 | 6.3                                                   |
|                               | "                                       | 0.7                         | 0.04               | -                                             | -                            | 10                       | 100                                 | 5.3                                                   |
|                               | "                                       | 0.3                         | 0.02               | -                                             | -                            | 10                       | 100                                 | 2.5                                                   |
|                               | Celcure                                 | 27.5                        | 1.72               | 9                                             | 1                            | -                        | 2.5                                 |                                                       |
|                               | "                                       | 13.7                        | 0.86               | 2                                             | 8                            | -                        | 25.0                                |                                                       |
|                               | "                                       | 6.4                         | 0.40               | -                                             | 8                            | 2                        | 60.0                                |                                                       |
|                               | "                                       | 3.2                         | 0.20               | -                                             | -                            | 10                       | 100                                 | 5.5                                                   |
|                               | "                                       | 1.3                         | 0.08               | -                                             | -                            | 10                       | 100                                 | 2.6                                                   |
|                               | Kreosotolja                             | 259                         | 16.19              | 9                                             | 1                            | -                        | 2.5                                 |                                                       |
|                               | "                                       | 132                         | 8.25               | 5                                             | 5                            | -                        | 15.0                                |                                                       |
|                               | "                                       | 70                          | 4.37               | -                                             | 9                            | 1                        | 50.0                                |                                                       |
|                               | "                                       | 28                          | 1.75               | -                                             | -                            | 10                       | 100                                 | 7.4                                                   |
|                               | "                                       | 19                          | 1.19               | -                                             | -                            | 10                       | 100                                 | 7.6                                                   |
| Bogesund                      | Oimpregnerat<br>Untreated               | -                           | -                  | -                                             | -                            | 20                       | 100                                 | 4.8                                                   |
|                               | S 25                                    | 19.8                        | 1.24               | 12                                            | 5                            | 3                        | 21.2                                |                                                       |
|                               | "                                       | 9.9                         | 0.62               | 3                                             | 8                            | 7                        | 63.0                                |                                                       |
|                               | "                                       | 4.9                         | 0.31               | 1                                             | 10                           | 9                        | 65.0                                |                                                       |
|                               | "                                       | 2.5                         | 0.16               | -                                             | 1                            | 19                       | 96.2                                |                                                       |
|                               | "                                       | 1.0                         | 0.06               | -                                             | -                            | 20                       | 100                                 | 5.2                                                   |

Tabell 7. 17 A: Stavförsök med S 25, KP, Celcure och kreosotolja; resultat efter 11 år på provfälten 1, 4 - 7.

17 A: Tests of stakes treated with S 25, KP, Celcure and creosote; results after 11 years on experimental plots No. 1, 4 - 7.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Ljungby-<br>holm              | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 20                       | 100                                    | 4.7                                                 |
|                               | S 25                                    | 19.9                        | 1.24                | 15                                            | 5                            | -                        | 7.5                                    |                                                     |
|                               | "                                       | 10.0                        | 0.62                | 4                                             | 8                            | 8                        | 51.2                                   |                                                     |
|                               | "                                       | 4.8                         | 0.30                | 1                                             | 3                            | 16                       | 87.5                                   |                                                     |
|                               | "                                       | 2.4                         | 0.15                | -                                             | -                            | 20                       | 100                                    | 6.1                                                 |
|                               | "                                       | 1.0                         | 0.06                | -                                             | -                            | 20                       | 100                                    | 5.5                                                 |
|                               | KP                                      | 5.6                         | 0.35                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
|                               | "                                       | 2.8                         | 0.17                | 8                                             | 2                            | -                        | 5.0                                    |                                                     |
|                               | "                                       | 1.4                         | 0.09                | 3                                             | 6                            | 1                        | 27.5                                   |                                                     |
|                               | "                                       | 0.7                         | 0.04                | -                                             | 2                            | 8                        | 85.0                                   |                                                     |
|                               | "                                       | 0.3                         | 0.02                | -                                             | -                            | 10                       | 100                                    | 6.0                                                 |
|                               | Celcure                                 | 28.0                        | 1.75                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 13.1                        | 0.82                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
|                               | "                                       | 6.4                         | 0.40                | 8                                             | 2                            | -                        | 5.0                                    |                                                     |
|                               | "                                       | 3.2                         | 0.20                | 2                                             | 3                            | 5                        | 60.0                                   |                                                     |
|                               | "                                       | 1.3                         | 0.08                | -                                             | 1                            | 9                        | 92.5                                   |                                                     |
|                               | Kreosotolja                             | 251                         | 15.69               | 3                                             | 7                            | -                        | 17.5                                   |                                                     |
|                               | "                                       | 127                         | 7.94                | 3                                             | 7                            | -                        | 27.5                                   |                                                     |
|                               | "                                       | 70                          | 4.37                | 1                                             | 7                            | 2                        | 52.5                                   |                                                     |
|                               | "                                       | 28                          | 1.75                | -                                             | 1                            | 9                        | 95.2                                   |                                                     |
|                               | "                                       | 19                          | 1.19                | -                                             | -                            | 10                       | 100                                    | 8.2                                                 |

Tabell 7. 17 A: Stavgörsök med S 25, KP, Celcure och kreosotolja; resultat  
(forts.) efter 11 år på provfälten 1, 4 - 7.

17 A: Tests of stakes treated with S 25, KP, Celcure and creosote;  
results after 11 years on experimental plots No 1, 4 - 7.

| Provfält<br>Experimen-<br>tal plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                    | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|------------------------------------|-----------------------------------------|-----------------------------|--------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                    |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu.f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                        |                                                     |
| Bogesund                           | K P                                     | 5.6                         | 0.35               | 10                                            | -                            | -                        | 0                                      | 7.4                                                 |
|                                    | "                                       | 2.8                         | 0.17               | 7                                             | 2                            | 1                        | 12.5                                   |                                                     |
|                                    | "                                       | 1.4                         | 0.09               | 4                                             | 4                            | 2                        | 30.0                                   |                                                     |
|                                    | "                                       | 0.7                         | 0.04               | -                                             | 6                            | 4                        | 57.5                                   |                                                     |
|                                    | "                                       | 0.3                         | 0.02               | -                                             | -                            | 10                       | 100                                    |                                                     |
|                                    | Celcure                                 | 27.6                        | 1.72               | 10                                            | -                            | -                        | 0                                      |                                                     |
|                                    | "                                       | 13.6                        | 0.85               | 10                                            | -                            | -                        | 0                                      |                                                     |
|                                    | "                                       | 6.5                         | 0.41               | 10                                            | -                            | -                        | 0                                      |                                                     |
|                                    | "                                       | 3.2                         | 0.20               | 6                                             | 4                            | -                        | 10.0                                   |                                                     |
|                                    | "                                       | 1.3                         | 0.08               | -                                             | 1                            | 9                        | 95.0                                   |                                                     |
|                                    | Kreosotolja                             | 257                         | 16.06              | 7                                             | 3                            | -                        | 7.5                                    |                                                     |
|                                    | " Creosote                              | 128                         | 8.0                | 3                                             | 5                            | 2                        | 42.5                                   |                                                     |
|                                    | "                                       | 70                          | 4.37               | 2                                             | 8                            | -                        | 30.0                                   |                                                     |
|                                    | "                                       | 27                          | 1.69               | -                                             | 3                            | 7                        | 82.5                                   |                                                     |
|                                    | "                                       | 20                          | 1.25               | -                                             | 3                            | 7                        | 82.5                                   |                                                     |

Tabell 7. 17 A: forts.

| Provfallt<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                     | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|--------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|---------------------|----------------------------------------|-----------------------------------------------------|
|                                |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejected |                                        |                                                     |
| Norrfors                       | Oimpregnerat<br>Untreated               | -                           | -                   | -                                             | -                            | 20                  | 100                                    | 4.7                                                 |
|                                | S 25                                    | 19.9                        | 1.24                | 20                                            | -                            | -                   | 0                                      |                                                     |
|                                | "                                       | 9.9                         | 0.62                | 13                                            | 5                            | 2                   | 16.3                                   |                                                     |
|                                | "                                       | 4.8                         | 0.30                | 2                                             | 7                            | 11                  | 63.8                                   |                                                     |
|                                | "                                       | 2.4                         | 0.15                | -                                             | 3                            | 17                  | 21.3                                   |                                                     |
|                                | "                                       | 1.0                         | 0.06                | -                                             | -                            | 20                  | 100                                    | 4.9                                                 |
|                                | K P                                     | 5.6                         | 0.35                | 9                                             | 1                            | -                   | 2.5                                    |                                                     |
|                                | "                                       | 2.8                         | 0.17                | 6                                             | 4                            | -                   | 10.0                                   |                                                     |
|                                | "                                       | 1.4                         | 0.09                | 3                                             | 1                            | 6                   | 62.5                                   |                                                     |
|                                | "                                       | 0.7                         | 0.04                | 2                                             | 3                            | 5                   | 57.5                                   |                                                     |
|                                | "                                       | 0.3                         | 0.02                | -                                             | -                            | 10                  | 100                                    | 5.9                                                 |
|                                | Celcure                                 | 27.6                        | 1.72                | 10                                            | -                            | -                   | 0                                      |                                                     |
|                                | "                                       | 13.7                        | 0.86                | 10                                            | -                            | -                   | 0                                      |                                                     |
|                                | "                                       | 6.3                         | 0.39                | 5                                             | 2                            | 3                   | 35.0                                   |                                                     |
|                                | "                                       | 3.2                         | 0.20                | 3                                             | 2                            | 5                   | 55.0                                   |                                                     |
|                                | "                                       | 1.3                         | 0.08                | -                                             | 1                            | 9                   | 92.5                                   |                                                     |
|                                | Kreosotolja                             | 256                         | 16.0                | 10                                            | -                            | -                   | 0                                      |                                                     |
|                                | "                                       | 127                         | 7.94                | 8                                             | 2                            | -                   | 5.8                                    |                                                     |
|                                | "                                       | 70                          | 4.37                | -                                             | 10                           | -                   | 52.5                                   |                                                     |
|                                | "                                       | 27                          | 1.69                | -                                             | 1                            | 9                   | 95.0                                   |                                                     |
|                                | "                                       | 18                          | 1.12                | -                                             | 2                            | 8                   | 92.5                                   |                                                     |



Tabell 7. 17 A: Stavförsök med S 25, KP, Celcure och kreosotolja; resultat (forts.) efter 11 år på provfälten 1, 4 - 7.

17 A: Tests of stakes treated with S 25, KP, Celcure and creosote; results after 11 years on experimental plots No. 1, 4 - 7.

| Provfält<br><br>Experimental plot | Impregnerings-<br>medel<br><br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                     | Röt-<br>styrka<br><br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-----------------------------------|---------------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|---------------------|--------------------------------------------|-------------------------------------------------------|
|                                   |                                             | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejected |                                            |                                                       |
| Värthus<br>Greenhouse             | Oimpregnerat<br>Untreated                   | -                           | -                   | -                                             | -                            | 20                  | 100                                        | 0.6                                                   |
|                                   | S 25                                        | 18.0                        | 1.12                | -                                             | -                            | 20                  | 100                                        | 6.2                                                   |
|                                   | "                                           | 9.0                         | 0.56                | -                                             | -                            | 20                  | 100                                        | 3.8                                                   |
|                                   | "                                           | 4.5                         | 0.28                | -                                             | -                            | 20                  | 100                                        | 2.3                                                   |
|                                   | "                                           | 2.25                        | 0.14                | -                                             | -                            | 20                  | 100                                        | 1.9                                                   |
|                                   | "                                           | 0.9                         | 0.06                | -                                             | -                            | 20                  | 100                                        | 1.1                                                   |
|                                   | K P                                         | 5.6                         | 0.35                | -                                             | -                            | 9                   | 100                                        | 7.3                                                   |
|                                   | "                                           | 2.88                        | 0.18                | -                                             | -                            | 10                  | 100                                        | 5.5                                                   |
|                                   | "                                           | 1.4                         | 0.09                | -                                             | -                            | 9                   | 100                                        | 4.0                                                   |
|                                   | "                                           | 0.7                         | 0.04                | -                                             | -                            | 10                  | 100                                        | 2.5                                                   |
|                                   | "                                           | 0.3                         | 0.02                | -                                             | -                            | 10                  | 100                                        | 1.7                                                   |
|                                   | Celcure.                                    | 27.5                        | 1.72                | -                                             | -                            | 10                  | 100                                        | 7.8                                                   |
|                                   | "                                           | 13.7                        | 0.86                | -                                             | -                            | 10                  | 100                                        | 7.6                                                   |
|                                   | "                                           | 6.6                         | 0.41                | -                                             | -                            | 10                  | 100                                        | 4.9                                                   |
|                                   | "                                           | 3.1                         | 0.19                | -                                             | -                            | 10                  | 100                                        | 1.9                                                   |
|                                   | "                                           | 1.3                         | 0.08                | -                                             | -                            | 10                  | 100                                        | 0.6                                                   |
|                                   | Kreosotolja                                 | 260                         | 16.25               | -                                             | 7                            | 3                   | 75.0                                       |                                                       |
|                                   | "                                           | 135                         | 8.44                | -                                             | -                            | 10                  | 100                                        | 7.6                                                   |
|                                   | "                                           | 70                          | 4.37                | -                                             | -                            | 10                  | 100                                        | 4.9                                                   |
|                                   | "                                           | 34                          | 2.12                | -                                             | -                            | 10                  | 100                                        | 3.3                                                   |
|                                   | "                                           | 19                          | 1.19                | -                                             | -                            | 10                  | 100                                        | 2.9                                                   |

Tabell 8. 19 A: Stavförsök med K 33 och S 25. Resultat efter 9 år i Simlångsdalen, Ljungbyholm, växthus, Bogesund och Norrfors.

19 A: Tests of stakes treated with K 33 and S 25. Results after 9 years in Simlångsdalen, Ljungbyholm, greenhouse, Bogesund and Norrfors.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varaktig-<br>het, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen            | Oimpregnerad                            | -                           |                     | -                                             | -                            | 10                       | 100                                    | 0.47                                                |
|                               | Untreated                               |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | K 33                                    | 21.6                        | 1.35                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 10.6                        | 0.66                | 6                                             | 4                            | -                        | 10.0                                   |                                                     |
|                               | "                                       | 5.4                         | 0.34                | 2                                             | 6                            | 2                        | 37.5                                   |                                                     |
|                               | "                                       | 2.6                         | 0.16                | -                                             | 1                            | 9                        | 95.0                                   |                                                     |
|                               | "                                       | 1.1                         | 0.07                | -                                             | -                            | 10                       | 100                                    | 2.9                                                 |
|                               | S 25                                    | 22.3                        | 1.39                | 8                                             | 2                            | -                        | 5.0                                    |                                                     |
|                               | "                                       | 10.8                        | 0.68                | 2                                             | -                            | 8                        | 80.0                                   |                                                     |
|                               | "                                       | 5.4                         | 0.34                | -                                             | -                            | 10                       | 100                                    | 6.0                                                 |
|                               | "                                       | 2.6                         | 0.16                | -                                             | -                            | 10                       | 100                                    | 4.5                                                 |
|                               | "                                       | 1.0                         | 0.06                | -                                             | -                            | 10                       | 100                                    | 2.1                                                 |
| Ljungby-<br>holm              | Oimpregnerad                            | -                           |                     | -                                             | -                            | 10                       | 100                                    | 3.5                                                 |
|                               | Untreated                               |                             |                     |                                               |                              |                          |                                        |                                                     |
|                               | K 33                                    | 21.6                        | 1.35                | 9                                             | 1                            | -                        | 2.5                                    |                                                     |
|                               | "                                       | 10.6                        | 0.66                | 7                                             | 3                            | -                        | 15.0                                   |                                                     |
|                               | "                                       | 5.3                         | 0.33                | 2                                             | 7                            | 1                        | 35.0                                   |                                                     |
|                               | "                                       | 2.6                         | 0.16                | -                                             | 2                            | 8                        | 87.5                                   |                                                     |
|                               | "                                       | 1.1                         | 0.07                | -                                             | -                            | 10                       | 100                                    | 4.0                                                 |
|                               | S 25                                    | 22.1                        | 1.38                | 7                                             | 3                            | -                        | 7.5                                    |                                                     |
|                               | "                                       | 10.6                        | 0.66                | 1                                             | 4                            | 5                        | 67.5                                   |                                                     |
|                               | "                                       | 5.4                         | 0.34                | -                                             | 1                            | 9                        | 95.0                                   |                                                     |
|                               | "                                       | 2.5                         | 0.16                | -                                             | -                            | 10                       | 100                                    | 4.9                                                 |
|                               | "                                       | 1.0                         | 0.06                | -                                             | -                            | 10                       | 100                                    | 3.7                                                 |

tab. 8, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Växthus<br>Greenhouse         | Oimpregnerad<br>Untreated               | -                           |                     | -                                             | -                            | 10                       | 100                                    | 0.8                                                 |
|                               | K 33                                    | 21.7                        | 1.36                | 5                                             | 4                            | 1                        | 20.0                                   |                                                     |
|                               | "                                       | 10.5                        | 0.66                | 2                                             | 3                            | 5                        | 57.5                                   |                                                     |
|                               | "                                       | 5.4                         | 0.34                | -                                             | -                            | 10                       | 100                                    | 4.5                                                 |
|                               | "                                       | 2.6                         | 0.16                | -                                             | -                            | 10                       | 100                                    | 2.4                                                 |
|                               | "                                       | 1.1                         | 0.07                | -                                             | -                            | 10                       | 100                                    | 1.1                                                 |
|                               | S 25                                    | 22.5                        | 1.41                | -                                             | 1                            | 9                        | 95.0                                   |                                                     |
|                               | "                                       | 10.5                        | 0.66                | -                                             | -                            | 10                       | 100                                    | 4.2                                                 |
|                               | "                                       | 5.5                         | 0.34                | -                                             | -                            | 10                       | 100                                    | 2.6                                                 |
|                               | "                                       | 2.6                         | 0.16                | -                                             | -                            | 10                       | 100                                    | 1.5                                                 |
|                               | "                                       | 1.0                         | 0.06                | -                                             | -                            | 10                       | 100                                    | 0.9                                                 |
|                               |                                         |                             |                     |                                               |                              |                          |                                        |                                                     |
| Bogesund                      | Oimpregnerad<br>Untreated               | -                           |                     | -                                             | -                            | 10                       | 100                                    | 3.4                                                 |
|                               | K 33                                    | 21.5                        | 1.34                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 10.5                        | 0.66                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 5.4                         | 0.34                | 8                                             | -                            | 2                        | 20.0                                   |                                                     |
|                               | "                                       | 2.6                         | 0.16                | 5                                             | -                            | 5                        | 50.0                                   |                                                     |
|                               | "                                       | 1.1                         | 0.07                | -                                             | -                            | 10                       | 100                                    | 5.2                                                 |
|                               | S 25                                    | 22.4                        | 1.40                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 10.7                        | 0.67                | 2                                             | -                            | 8                        | 80.0                                   |                                                     |
|                               | "                                       | 5.4                         | 0.34                | -                                             | 1                            | 9                        | 92.5                                   |                                                     |
|                               | "                                       | 2.6                         | 0.16                | -                                             | -                            | 10                       | 100                                    | 5.2                                                 |
|                               | "                                       | 1.1                         | 0.07                | -                                             | 5                            | 5                        | 62.5                                   |                                                     |
|                               |                                         |                             |                     |                                               |                              |                          |                                        |                                                     |
| Norrfors                      | Oimpregnerad<br>Untreated               | -                           |                     | -                                             | -                            | 10                       | 100                                    | 5.1                                                 |
|                               | K 33                                    | 21.9                        | 1.37                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 10.5                        | 0.66                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 5.4                         | 0.34                | 10                                            | -                            | -                        | 0                                      |                                                     |
|                               | "                                       | 2.6                         | 0.16                | 2                                             | 6                            | 2                        | 37.5                                   |                                                     |

Tab. 8, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                       |
| Norrfors                      | K 33                                    | 1.1                         | 0.07                | 1                                             | 3                            | 6                        | 67.5                                   |                                                       |
|                               | S 25                                    | 22.4                        | 1.40                | 10                                            | -                            | -                        | 0                                      |                                                       |
|                               | "                                       | 10.6                        | 0.66                | 10                                            | -                            | -                        | 0                                      |                                                       |
|                               | "                                       | 5.6                         | 0.35                | 5                                             | 3                            | 2                        | 27.5                                   |                                                       |
|                               | "                                       | 2.6                         | 0.16                | 1                                             | 1                            | 8                        | 82.5                                   |                                                       |
|                               | "                                       | 1.0                         | 0.06                | 1                                             | -                            | 9                        | 90.0                                   |                                                       |

Tabell 9. 20 A: Stavförsök med K 33, KP-Cuprinol och kreosotolja. Resultat efter 7 år i Simlångsdalen och Bogesund.

20 A: Tests of stakes treated with K 33, KP-Cuprinol and creosote. Results after 7 years in Simlångsdalen and Bogesund.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                    | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet,<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|--------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|--------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu.f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejer-<br>ted |                                        |                                                        |
| Simlångs-<br>dalen            | Tall (Pine)                             |                             |                    |                                               |                              |                          |                                        |                                                        |
|                               | Oimpregnerad                            | -                           |                    | -                                             | -                            | 10                       | 100                                    | 2.9                                                    |
|                               | Untreated                               |                             |                    |                                               |                              |                          |                                        |                                                        |
|                               | KP-Cuprinol                             | 5.71                        | 0.36               | 15                                            | -                            | -                        | 0                                      |                                                        |
|                               | "                                       | 2.63                        | 0.16               | 10                                            | 3                            | 2                        | 20.0                                   |                                                        |
|                               | "                                       | 1.44                        | 0.09               | 1                                             | 6                            | 8                        | 70.1                                   |                                                        |
|                               | "                                       | 0.70                        | 0.044              | -                                             | -                            | 15                       | 100                                    | 4.3                                                    |
|                               | "                                       | 0.27                        | 0.017              | -                                             | -                            | 15                       | 100                                    | 2.8                                                    |
|                               | K 33                                    | 25.98                       | 1.62               | 15                                            | -                            | -                        | 0                                      |                                                        |
|                               | "                                       | 12.50                       | 0.78               | 10                                            | 2                            | 2                        | 19.7                                   |                                                        |
|                               | "                                       | 6.64                        | 0.42               | 5                                             | 5                            | 4                        | 39.4                                   |                                                        |
|                               | "                                       | 3.23                        | 0.20               | -                                             | -                            | 15                       | 100                                    | 5.3                                                    |
|                               | "                                       | 1.21                        | 0.08               | -                                             | -                            | 15                       | 100                                    | 4.7                                                    |
|                               | Kreosotolja                             | 442.6                       | 27.66              | 6                                             | 8                            | -                        | 14.3                                   |                                                        |
|                               | Creosote                                | 267.2                       | 16.69              | 9                                             | 6                            | -                        | 10.0                                   |                                                        |
|                               | "                                       | 113.0                       | 7.06               | 3                                             | 10                           | 2                        | 36.7                                   |                                                        |
|                               | "                                       | 56.6                        | 3.54               | 2                                             | 2                            | 11                       | 78.5                                   |                                                        |
|                               | "                                       | 21.6                        | 1.35               | -                                             | -                            | 15                       | 100                                    |                                                        |
|                               | "                                       | 12.8                        | 0.80               | -                                             | -                            | 15                       | 100                                    | 4.2                                                    |
|                               | Bok (Beech)                             |                             |                    |                                               |                              |                          |                                        |                                                        |
|                               | Oimpregnerad                            | -                           |                    | -                                             | -                            | 10                       | 100                                    | 3.1                                                    |
|                               | Untreated                               |                             |                    |                                               |                              |                          |                                        |                                                        |
|                               | KP-Cuprinol                             | 4 %                         |                    | 2                                             | 6                            | 1                        | 28.0                                   |                                                        |
|                               | "                                       | 3 %                         |                    | -                                             | 8                            | 1                        | 36.4                                   |                                                        |
|                               | "                                       | 2 %                         |                    | -                                             | 2                            | 7                        | 86.8                                   |                                                        |

Tab. 9, forts.

| Provfält<br><br>Experimental plot | Impregnerings-<br>medel<br><br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-----------------------------------|---------------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                   |                                             | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Bogesund                          | Oimpregnerad<br>Untreated                   | -                           |                     | -                                             | -                            | 14                       | 100                                    | 3.8                                                 |
|                                   | KP-Cuprinol                                 | 5.73                        | 0.36                | 14                                            | -                            | -                        | 0                                      |                                                     |
|                                   | "                                           | 2.64                        | 0.17                | 13                                            | 1                            | -                        | 1.8                                    |                                                     |
|                                   | "                                           | 1.39                        | 0.09                | 13                                            | 1                            | -                        | 1.8                                    |                                                     |
|                                   | "                                           | 0.70                        | 0.04                | 6                                             | 5                            | 3                        | 36.0                                   |                                                     |
|                                   | "                                           | 0.27                        | 0.02                | -                                             | 4                            | 9                        | 79.8                                   |                                                     |
|                                   | K 33                                        | 26.29                       | 1.64                | 13                                            | 1                            | -                        | 1.9                                    |                                                     |
|                                   | "                                           | 12.64                       | 0.79                | 14                                            | -                            | -                        | 0                                      |                                                     |
|                                   | "                                           | 6.50                        | 0.41                | 12                                            | 2                            | -                        | 3.6                                    |                                                     |
|                                   | "                                           | 3.17                        | 0.20                | 6                                             | 1                            | 7                        | 54.0                                   |                                                     |
|                                   | "                                           | 1.21                        | 0.08                | 3                                             | 3                            | 8                        | 66.6                                   |                                                     |
|                                   | Kreosotolja                                 | 434.0                       | 27.12               | 10                                            | 2                            | -                        | 4.4                                    |                                                     |
|                                   | Creosote                                    | 259.7                       | 16.23               | 10                                            | 2                            | 1                        | 13.3                                   |                                                     |
|                                   | "                                           | 116.7                       | 7.29                | 5                                             | 9                            | -                        | 21.6                                   |                                                     |
|                                   | "                                           | 59.9                        | 3.56                | 5                                             | 9                            | -                        | 25.2                                   |                                                     |
|                                   | "                                           | 22.1                        | 1.38                | -                                             | 10                           | 4                        | 70.2                                   |                                                     |
|                                   | "                                           | 13.1                        | 0.82                | -                                             | 5                            | 9                        | 84.6                                   |                                                     |
|                                   | Bok (Beech)                                 |                             |                     |                                               |                              |                          |                                        | 4.1                                                 |
|                                   | Oimpregnerad<br>Untreated                   | -                           |                     | -                                             | -                            | 7                        | 100                                    |                                                     |
|                                   | KP-Cuprinol                                 | 4 %                         |                     | 8                                             | 1                            | -                        | 2.8                                    |                                                     |
|                                   | "                                           | 3 %                         |                     | 6                                             | 3                            | -                        | 11.2                                   |                                                     |
|                                   | "                                           | 2 %                         |                     | 4                                             | 3                            | 2                        | 44.8                                   |                                                     |

Tabell 10. 21 A: Försök med stavar, utsågade ur olika skikt av stolpar

impregnerade med K 33, KP-Cuprinol och kreosotolja samt ytterplankor från samma stolpar. Resultat efter 7 år i Simlångsdalen, växthus, Bogesund och Norrfors.

21 A: Tests of stakes, cut out from different layers of poles, treated with K 33, KP-Cuprinol and creosote and of the outer deals of the same poles. Results after 7 years in Simlångsdalen, greenhouse, Bogesund and Norrfors.

| Provfält<br>Experimental<br>plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|----------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                  |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen               | Oimpregnerad<br>Untreated               |                         |                                               |                              |                          |                                        |                                                     |
|                                  | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | -                            | 16                       | 100                                    | 2.7                                                 |
|                                  | " 2                                     |                         | -                                             | -                            | 16                       | 100                                    | 3.0                                                 |
|                                  | " 3                                     |                         | -                                             | -                            | 16                       | 100                                    | 2.8                                                 |
|                                  | " 4                                     |                         | -                                             | -                            | 16                       | 100                                    | 2.3                                                 |
|                                  | K 33                                    | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                                  | Stavar, skikt 1<br>Stakes, layer 1      |                         | 2                                             | 1                            | 5                        | 65.6                                   |                                                     |
|                                  | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.2                                                 |
|                                  | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.6                                                 |
|                                  | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.6                                                 |
|                                  | K 33                                    | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                                  | Stavar, skikt 1<br>Stakes, layer 1      |                         | 2                                             | 2                            | 4                        | 56.2                                   |                                                     |
|                                  | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.3                                                 |
|                                  | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.4                                                 |
|                                  | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.7                                                 |
|                                  | KP-Cuprinol                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                                  | Stavar, skikt 1<br>Stakes, layer 1      |                         | 1                                             | -                            | 7                        | 87.5                                   |                                                     |
|                                  | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.0                                                 |
|                                  | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.6                                                 |
|                                  | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.6                                                 |

Tab. 10, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen            | KP-Cuprinol                             | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | -                            | 8                        | 100                                    | 3.4                                                 |
|                               | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.7                                                 |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.0                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.7                                                 |
|                               | Kreosot Creosote                        |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | 2                            | 6                        | 84.4                                   |                                                     |
|                               | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.6                                                 |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.0                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 2.6                                                 |
|                               | Oimpregnerad<br>Untreated               |                         |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | -                                             | 3                            | 10                       | 91.7                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | -                                             | 3                            | 12                       | 94.2                                   |                                                     |
|                               | K 33                                    | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 1                                             | 7                            | -                        | 28.1                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 1                                             | 7                            | -                        | 28.1                                   |                                                     |
|                               | K 33                                    | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 1                                             | 7                            | -                        | 34.4                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 3                                             | 5                            | -                        | 18.8                                   |                                                     |



Tab. 10, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptågning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen            | <u>KP-Cuprinol</u>                      | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | -                                             | 6                            | 2                        | 68.8                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | -                                             | 7                            | 1                        | 46.9                                   |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | -                                             | 8                            | -                        | 62.5                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | -                                             | 3                            | 5                        | 90.6                                   |                                                     |
|                               | <u>Kreosotolja</u><br><u>Creosote</u>   |                         |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 2                                             | 6                            | -                        | 28.1                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 2                                             | 6                            | -                        | 21.9                                   |                                                     |
|                               |                                         |                         |                                               |                              |                          |                                        |                                                     |
| Växthus<br>Greenhouse         | <u>Oimpregnerad</u><br><u>Untreated</u> |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | -                            | 16                       | 100                                    | 0.75                                                |
|                               | " 2                                     |                         | -                                             | -                            | 16                       | 100                                    | 0.75                                                |
|                               | " 3                                     |                         | -                                             | -                            | 16                       | 100                                    | 0.8                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 16                       | 100                                    | 0.7                                                 |
|                               |                                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | <u>K 33</u>                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | -                            | 8                        | 100                                    | 2.7                                                 |
|                               | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 1.4                                                 |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.9                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.7                                                 |
|                               |                                         | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | <u>K 33</u>                             |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | -                            | 8                        | 100                                    | 2.2                                                 |
|                               | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 1.0                                                 |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 1.2                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.7                                                 |

Tabl 10, forts.

| Provfält<br>Experimen-<br>tal plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|------------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                                    |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Värthus<br>Greenhouse              | <u>KP-Cuprinol</u>                      | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                                    | Stavar, skikt 1                         |                         | -                                             | -                            | 8                        | 100                                    | 1.8                                                 |
|                                    | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                                    | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.9                                                 |
|                                    | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.9                                                 |
|                                    | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.8                                                 |
|                                    | <u>KP-Cuprinol</u>                      | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                                    | Stavar, skikt 1                         |                         | -                                             | -                            | 8                        | 100                                    | 1.2                                                 |
|                                    | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                                    | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 1.0                                                 |
|                                    | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.8                                                 |
|                                    | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.8                                                 |
|                                    | <u>Kreosotolja</u><br>Creosote          |                         |                                               |                              |                          |                                        |                                                     |
|                                    | Stavar, skikt 1                         |                         | -                                             | -                            | 8                        | 100                                    | 3.1                                                 |
|                                    | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
| Bogesund                           | " 2                                     | -                       | -                                             | -                            | 8                        | 100                                    | 2.3                                                 |
|                                    | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.9                                                 |
|                                    | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 0.7                                                 |
|                                    | <u>Oimpregnerad</u><br>Untreated        |                         |                                               |                              |                          |                                        |                                                     |
|                                    | Stavar, skikt 1                         |                         | -                                             | -                            | 16                       | 100                                    | 3.8                                                 |
|                                    | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                                    | " 2                                     |                         | -                                             | 2                            | 14                       | 90.6                                   |                                                     |
|                                    | " 3                                     |                         | -                                             | 1                            | 15                       | 95.3                                   |                                                     |
|                                    | " 4                                     |                         | -                                             | 1                            | 15                       | 95.3                                   |                                                     |
|                                    | <u>K 33</u>                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                                    | Stavar, skikt 1                         |                         | 4                                             | 3                            | 1                        | 21.9                                   |                                                     |
|                                    | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                                    | " 2                                     |                         | -                                             | 1                            | 7                        | 93.8                                   |                                                     |
|                                    | " 3                                     |                         | -                                             | 1                            | 7                        | 93.8                                   |                                                     |
|                                    | " 4                                     |                         | -                                             | 1                            | 7                        | 90.6                                   |                                                     |

Tab. 10, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Bogesund                      | <u>K 33</u>                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 6                                             | 2                            | -                        | 9.4                                    |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | 1                                             | 4                            | 3                        | 64.8                                   |                                                     |
|                               | " 3                                     |                         | -                                             | 1                            | 7                        | 90.0                                   |                                                     |
|                               | " 4                                     |                         | 1                                             | 1                            | 6                        | 81.3                                   |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 1                                             | 5                            | 2                        | 56.3                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | 1                                             | 1                            | 6                        | 81.2                                   |                                                     |
|                               | " 3                                     |                         | -                                             | 1                            | 7                        | 93.6                                   |                                                     |
|                               | " 4                                     |                         | -                                             | 1                            | 7                        | 90.6                                   |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | -                                             | 5                            | 1                        | 53.3                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | -                                             | 2                            | 6                        | 84.4                                   |                                                     |
|                               | " 3                                     |                         | 1                                             | 1                            | 6                        | 78.1                                   |                                                     |
|                               | " 4                                     |                         | -                                             | 1                            | 7                        | 90.0                                   |                                                     |
|                               | <u>Kreosotolja</u><br><u>Creosote</u>   |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 4                                             | 4                            | -                        | 18.8                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | 2                                             | 4                            | 2                        | 46.9                                   |                                                     |
|                               | " 3                                     |                         | 1                                             | 1                            | 4                        | 71.4                                   |                                                     |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 3.5                                                 |
|                               | <u>Oimpregnerad</u><br><u>Untreated</u> |                         |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 7                                             | 8                            | 1                        | 31.2                                   |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 5                                             | 6                            | 5                        | 48.5                                   |                                                     |
|                               | <u>K 33</u>                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 8                                             | -                            | -                        | 0                                      |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 8                                             | -                            | -                        | 0                                      |                                                     |

Tab. 10, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|-------------------------------------|-----------------------------------------------------|
|                               |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                     |                                                     |
| Bogesund                      | <u>K 33</u>                             | $\frac{1}{2}$           |                                               |                              |                          |                                     |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 7                                             | 1                            | -                        | 3.1                                 |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 8                                             | -                            | -                        | 0                                   |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{I}$           |                                               |                              |                          |                                     |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 5                                             | 3                            | 1                        | 12.5                                |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 6                                             | 2                            | -                        | 6.2                                 |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{2}$           |                                               |                              |                          |                                     |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 5                                             | 3                            | -                        | 9.4                                 |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 6                                             | 2                            | -                        | 6.2                                 |                                                     |
|                               | <u>Kreosotolja</u><br><u>Creosote</u>   |                         |                                               |                              |                          |                                     |                                                     |
|                               | Ytterplankor<br>Outer deals             |                         | 7                                             | 1                            | -                        | 6.2                                 |                                                     |
|                               | Mittplankor<br>Middle deals             |                         | 8                                             | -                            | -                        | 0                                   |                                                     |
| Norrfors                      | <u>Oimpregnerad</u><br><u>Untreated</u> |                         |                                               |                              |                          |                                     |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | -                                             | 1                            | 15                       | 95.3                                |                                                     |
|                               | " 2                                     |                         | 1                                             | 1                            | 14                       | 30.6                                |                                                     |
|                               | " 3                                     |                         | -                                             | -                            | 16                       | 100                                 |                                                     |
|                               | " 4                                     |                         | -                                             | 1                            | 15                       | 95.3                                |                                                     |
|                               | <u>K 33</u>                             | $\frac{1}{I}$           |                                               |                              |                          |                                     |                                                     |
|                               | Stavar, skikt 1<br>Stakes, layer 1      |                         | 4                                             | 1                            | 3                        | 40.6                                | 5.3                                                 |

Tab. 10, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-------------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         |                         | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Norrfors                      | <u>K 33</u>                             | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 2                         |                         | -                                             | 1                            | 7                        | 96.9                                   |                                                     |
|                               | Stakes, layer 2                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    |                                                     |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    |                                                     |
|                               | <u>K 33</u>                             | $\frac{1}{2}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 4                                             | 3                            | 1                        | 21.9                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | 3                                             | 1                            | 4                        | 53.1                                   |                                                     |
|                               | " 3                                     |                         | -                                             | 1                            | 7                        | 90.6                                   |                                                     |
|                               | " 4                                     |                         | 1                                             | -                            | 7                        | 87.5                                   |                                                     |
|                               | <u>KP-Cuprinol</u>                      | $\frac{1}{1}$           |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 1                                             | 1                            | 6                        | 78.1                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | -                                             | 1                            | 7                        | 90.6                                   |                                                     |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 4.0                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 4.4                                                 |
|                               | <u>KP-Cuprinol</u>                      |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 2                                             | -                            | 6                        | 75.0                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | -                                             | -                            | 8                        | 100                                    | 5.8                                                 |
|                               | " 3                                     |                         | -                                             | 1                            | 8                        | 100                                    | 4.8                                                 |
|                               | " 4                                     |                         | -                                             | 1                            | 7                        | 90.6                                   |                                                     |
|                               | <u>Kreosotolja</u><br><u>Creosote</u>   |                         |                                               |                              |                          |                                        |                                                     |
|                               | Stavar, skikt 1                         |                         | 1                                             | 5                            | 2                        | 46.9                                   |                                                     |
|                               | Stakes, layer 1                         |                         |                                               |                              |                          |                                        |                                                     |
|                               | " 2                                     |                         | -                                             | 1                            | 7                        | 93.8                                   |                                                     |
|                               | " 3                                     |                         | -                                             | -                            | 8                        | 100                                    | 4.6                                                 |
|                               | " 4                                     |                         | -                                             | -                            | 8                        | 100                                    | 4.5                                                 |

Tabell 11, 22 A: Stavförsök med virke av björk och bok, impregnerat med K 33, KP-Cuprinol och kreosotolja. Resultat efter 6 år i Simlångsdalen och Bogesund.

22 A: Tests of stakes of birch and beech, treated with K 33, KP-Cuprinol and creosote. Results after 6 years in Simlångsdalen and Bogesund.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative    | Upptagning<br>Retention |               | Stavarnas tillstånd<br>Condition of specimens |                       |               | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet,<br>år<br>Av. life<br>years |
|-------------------------------|--------------------------------------------|-------------------------|---------------|-----------------------------------------------|-----------------------|---------------|----------------------------------------|--------------------------------------------------------|
|                               |                                            | Kg                      | Lb            | Friska                                        | Med                   | Utdömda       |                                        |                                                        |
|                               |                                            | per<br>m <sup>3</sup>   | per<br>cu. f. | Sound                                         | röta<br>Decay-<br>ing | Rejec-<br>ted |                                        |                                                        |
| Simlångs-<br>dalen            | Björk (Birch)<br>Oimpregnerad<br>Untreated | -                       | -             | -                                             | -                     | 20            | 100                                    | 1.9                                                    |
|                               |                                            | 20.7                    | 1.32          | 6                                             | 4                     | -             | 10.0                                   |                                                        |
|                               |                                            | 10.1                    | 0.65          | 1                                             | 8                     | 1             | 40.0                                   |                                                        |
|                               |                                            | 5.1                     | 0.33          | -                                             | 6                     | 4             | 55.0                                   |                                                        |
|                               |                                            | 2.5                     | 0.16          | -                                             | 5                     | 5             | 67.5                                   |                                                        |
|                               |                                            | 0.98                    | 0.06          | -                                             | 1                     | 9             | 95.0                                   |                                                        |
|                               | KP-Cuprinol                                | 34.8                    | 2.18          | 8                                             | 2                     | -             | 5.0                                    |                                                        |
|                               |                                            | 16.9                    | 1.06          | 5                                             | 5                     | -             | 10.5                                   |                                                        |
|                               |                                            | 8.37                    | 0.52          | -                                             | 6                     | 4             | 62.5                                   |                                                        |
|                               |                                            | 4.04                    | 0.25          | -                                             | -                     | 10            | 100                                    | 3.2                                                    |
|                               |                                            | 1.59                    | 0.10          | -                                             | -                     | 10            | 100                                    | 2.0                                                    |
|                               | Kreosotolja<br>Creosote                    | 170.9                   | 10.94         | -                                             | 10                    | -             | 25.0                                   |                                                        |
|                               |                                            | 82.6                    | 5.29          | -                                             | 10                    | -             | 44.0                                   |                                                        |
|                               |                                            | 41.2                    | 2.64          | -                                             | 8                     | 2             | 60.0                                   |                                                        |
|                               | Bok (Beech)<br>Oimpregnerad<br>Untreated   | -                       | -             | -                                             | -                     | 20            | 100                                    | 2.2                                                    |
|                               |                                            | 19.2                    | 1.23          | 7                                             | 3                     | -             | 7.5                                    |                                                        |
|                               |                                            | 9.4                     | 0.60          | 2                                             | 6                     | 1             | 22.8                                   |                                                        |
|                               |                                            | 4.7                     | 0.30          | 2                                             | 7                     | 1             | 40.0                                   |                                                        |
|                               |                                            | 2.3                     | 0.15          | -                                             | 1                     | 9             | 95.0                                   |                                                        |
|                               |                                            | 0.93                    | 0.06          | -                                             | 1                     | 9             | 95.0                                   |                                                        |
|                               | KP-Cuprinol                                | 34.0                    | 2.13          | 10                                            | -                     | -             | 0                                      |                                                        |
|                               |                                            | 16.3                    | 1.02          | 4                                             | 6                     | -             | 22.5                                   |                                                        |
|                               |                                            | 8.03                    | 0.50          | -                                             | 6                     | 4             | 65.0                                   |                                                        |
|                               |                                            | 3.93                    | 0.25          | -                                             | 1                     | 9             | 95.0                                   |                                                        |

Tab. 11, forts.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet, år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-----------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Rejec-<br>ted |                                        |                                                     |
| Simlångs-<br>dalen            | KP-Cuprinol                             | 1.56                        | 0.10                | -                                             | -                            | 8                        | 100                                    | 2.8                                                 |
|                               | Kreosotolja                             | 143.1                       | 9.16                | 1                                             | 9                            | -                        | 22.5                                   |                                                     |
|                               | Creosote                                | 71.0                        | 4.54                | -                                             | 10                           | -                        | 45.0                                   |                                                     |
|                               |                                         | 34.4                        | 2.20                | -                                             | 7                            | 2                        | 61.6                                   |                                                     |

Tabell 12. 23 A: Stavförsök med OFM-impregnerad gransplint och -kärna. K 33.  
Resultat efter 6 år i Simlångsdalen.

23 A: Tests of stakes of spruce sapwood and heartwood, treated by the OFM-method with K 33. Results after 6 years in Simlångsdalen.

| Provfält<br>Experimental plot | Impregnerings-<br>medel<br>Preservative | Upptagning<br>Retention     |                     | Stavarnas tillstånd<br>Condition of specimens |                              |                          | Röt-<br>styrka<br>Index<br>of<br>decay | Medel-<br>varak-<br>tighet<br>år<br>Av. life<br>years |
|-------------------------------|-----------------------------------------|-----------------------------|---------------------|-----------------------------------------------|------------------------------|--------------------------|----------------------------------------|-------------------------------------------------------|
|                               |                                         | Kg<br>per<br>m <sup>3</sup> | Lb<br>per<br>cu. f. | Friska<br>Sound                               | Med<br>röta<br>Decay-<br>ing | Utdömda<br>Re-<br>jected |                                        |                                                       |
| Simlångs-<br>dalen            | Gransplint<br>Spruce sap wood           |                             |                     |                                               |                              |                          |                                        |                                                       |
|                               | Oimpregnerad<br>Untreated               | -                           | -                   | -                                             | -                            | 10                       | 100                                    | 1.7                                                   |
|                               | K 33                                    | 2.85                        | 0.18                | 12                                            | 2                            | 1                        | 10.0                                   |                                                       |
|                               |                                         | 1.94                        | 0.12                | 11                                            | 3                            | 1                        | 11.7                                   |                                                       |
|                               | Grankärna<br>Spruce heart wood          |                             |                     |                                               |                              |                          |                                        |                                                       |
|                               | Oimpregnerad<br>Untreated               | -                           | -                   | -                                             | -                            | 15                       | 100                                    | 1.9                                                   |
|                               | K 33                                    | 3.92                        | 0.24                | 3                                             | 9                            | 3                        | 40.1                                   |                                                       |
|                               |                                         | 2.05                        | 0.13                | 1                                             | 4                            | 10                       | 76.8                                   |                                                       |



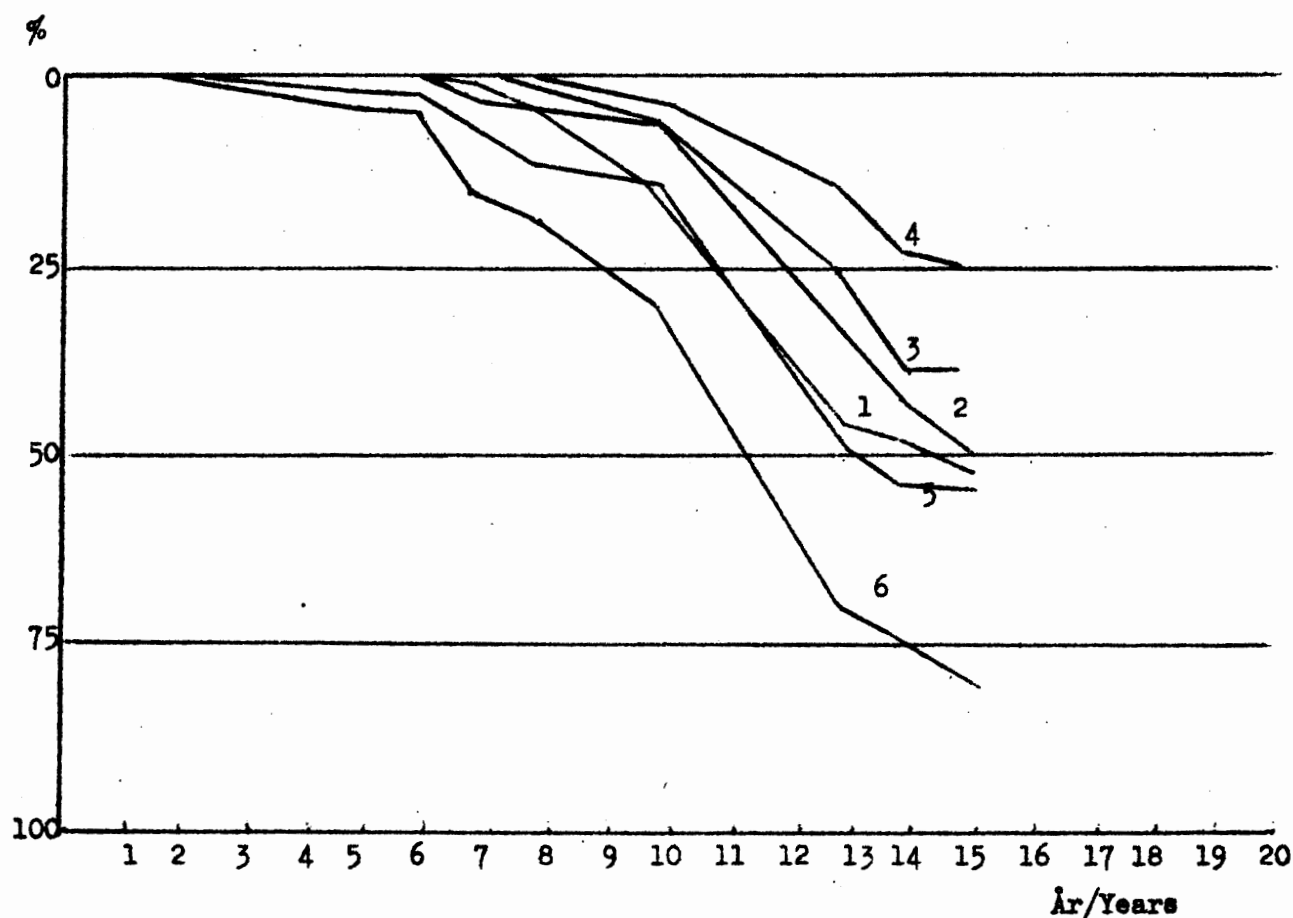


Fig. 1. Försök 10 A. Rötfförloppet hos stavar, impregnerade med kreosotolja med olika halter av fenoler, syror och baser. Simlångsdalen.

Rate of decay for stakes, treated with creosote containing various amounts of phenols, acids and alcalies. Simlångsdalen.

- |    |                                        |                                        |
|----|----------------------------------------|----------------------------------------|
| 1. | Kreosotolja, normal (4 % fenoler.      | Creosote, normal (4 % phenols).        |
| 2. | " , extraherad med 1 % NaOH.           | " , extracted with 1 % NaOH.           |
| 3. | " , " " 1 % $\text{Ca}(\text{OH})_2$ . | " , " " 1 % $\text{Ca}(\text{OH})_2$ . |
| 4. | " , " " 1 % $\text{H}_2\text{SO}_4$ .  | " , " " 1 % $\text{H}_2\text{SO}_4$ .  |
| 5. | " , 8 % fenoler.                       | " , 8 % phenols.                       |
| 6. | " , 0 - 0.1 % fenoler.                 | " , 0 - 0.1 % phenols.                 |

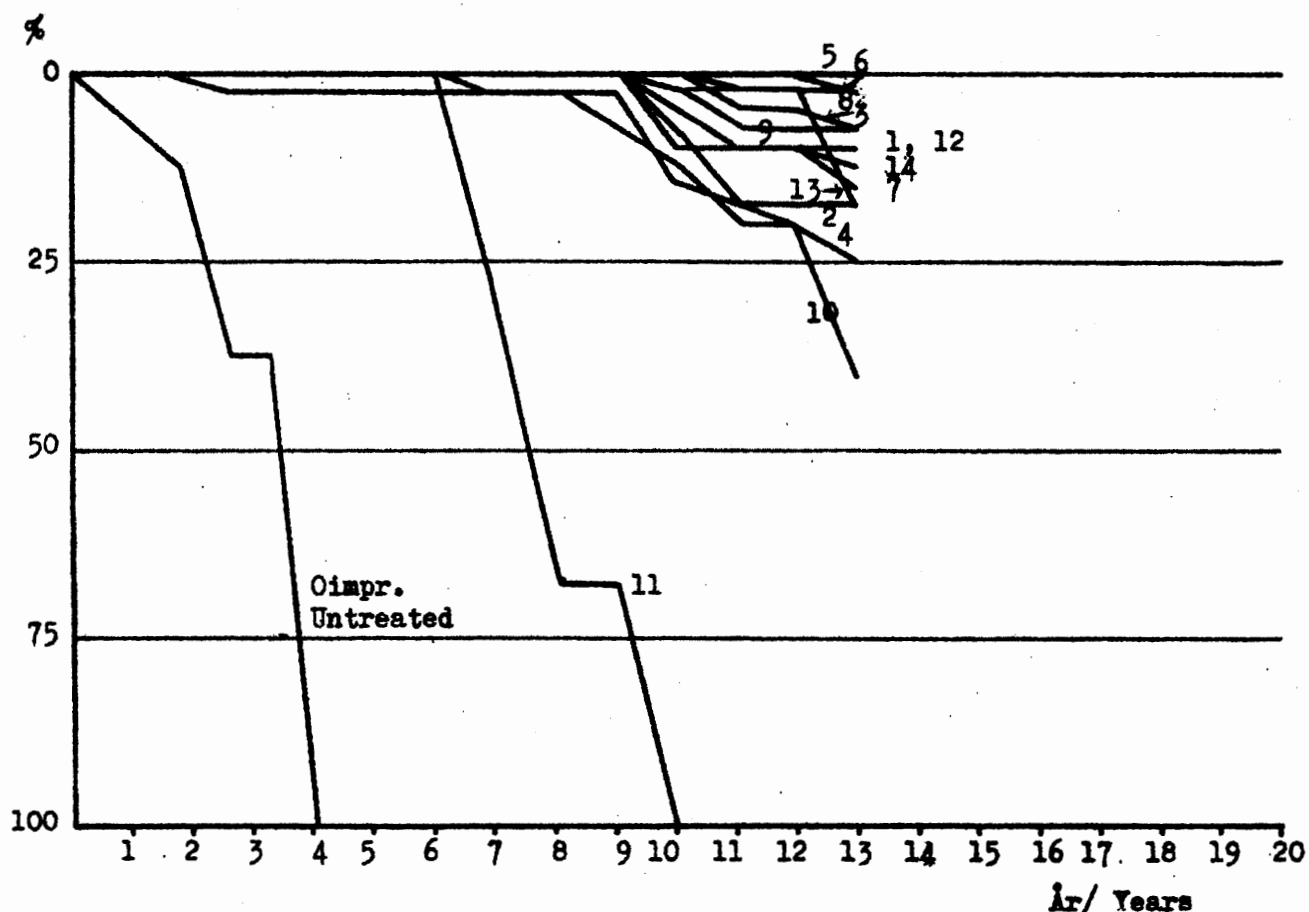


Fig. 2. Försök 16 A. Rötförloppet hos stavar, impregnerade med olika kombinationer av koppar, zink, pentaklorfenol,  $\text{As}_2\text{O}_3$  och  $\text{As}_2\text{O}_5$ . Ljungbyholm.

Rate of decay for stakes treated with various combinations of copper, zinc, pentachlorophenol,  $\text{As}_2\text{O}_3$  and  $\text{As}_2\text{O}_5$ . Ljungbyholm.

- |                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| 1. 53 A 6: 0.6 % Cu               | 8. 53 F 6: 0.6 % Cu, 0.31 % $\text{As}_2\text{O}_3$            |
| 2. 53 A 4: 0.4 % Cu               | 9. 53 F 4: 0.4 % Cu, 0.2 % $\text{As}_2\text{O}_3$             |
| 3. 53 B 8: 0.133 % Cu, 0.667 % Zn | 10. 53 G 6: 0.1 % Cu, 0.5 % Zn, 0.25 % $\text{As}_2\text{O}_3$ |
| 4. 53 B 6: 0.1 % Cu, 0.5 % Zn     |                                                                |
| 5. 53 D 6: 0.6 % Cu, 0.3 % Pe     | 11. 53 C 8: 0.8 % Pe                                           |
| 6. 53 D 4: 0.4 % Cu, 0.2 % Pe     | 12. 53 A 3: 0.3 % Cu                                           |
| 7. 53 E 4: 0.4 % Cu, 0.4 % Pe     | 13. 53 D 3: 0.3 % Cu, 0.15 % Pe                                |
|                                   | 14. 53 F 3: 0.3 % Cu, 0.155 % $\text{As}_2\text{O}_3$          |

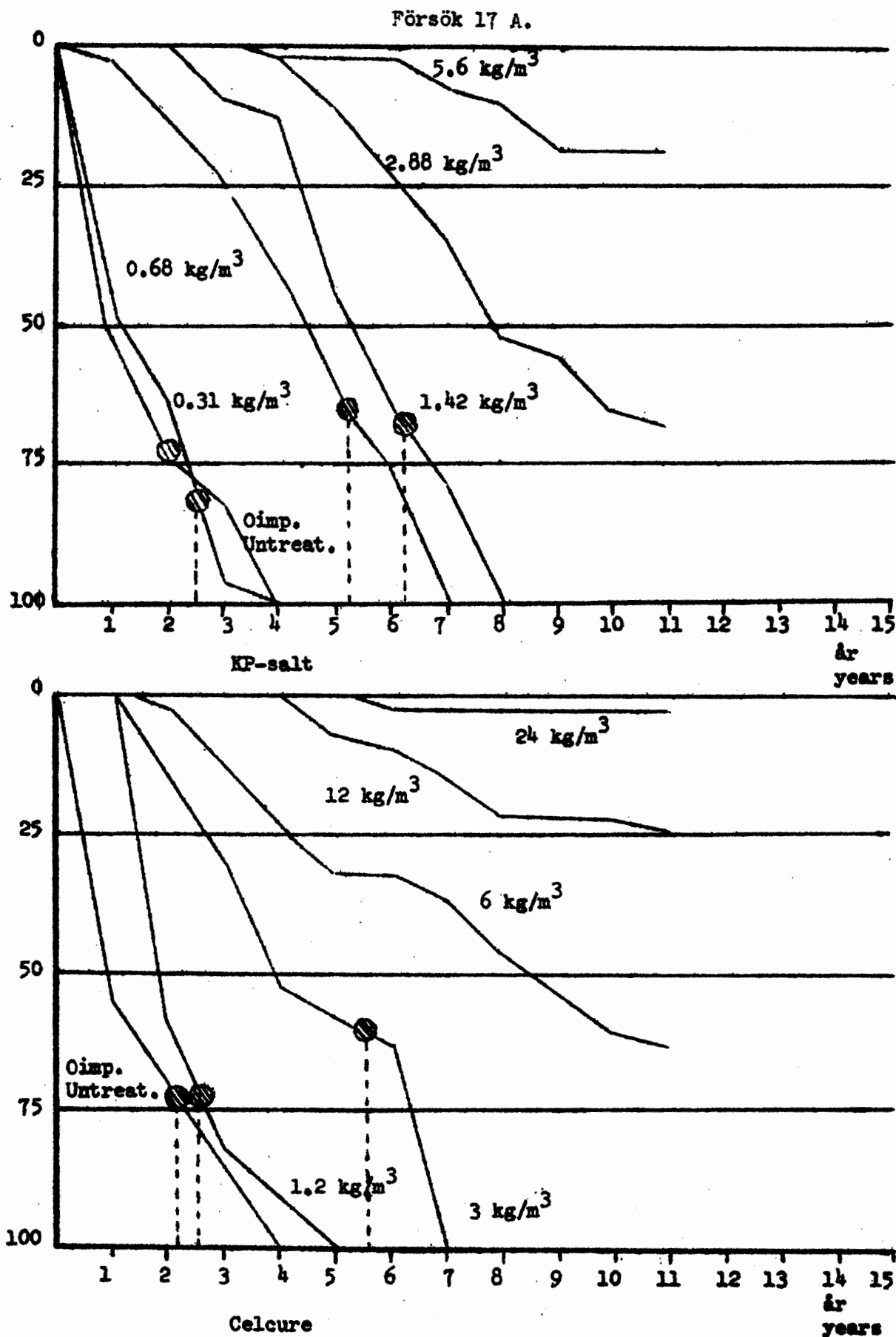


Fig. 3 Rötfförloppet hos stavar impregnerade med KP-salt, Celcure på provfältet i Simlångsdalen.

Rate of decay for stakes treated with KP-salt, Celcure on the experimental plot at Simlångsdalen.

Med (●) har medellivslängden betecknats. Average life indicated with (●).

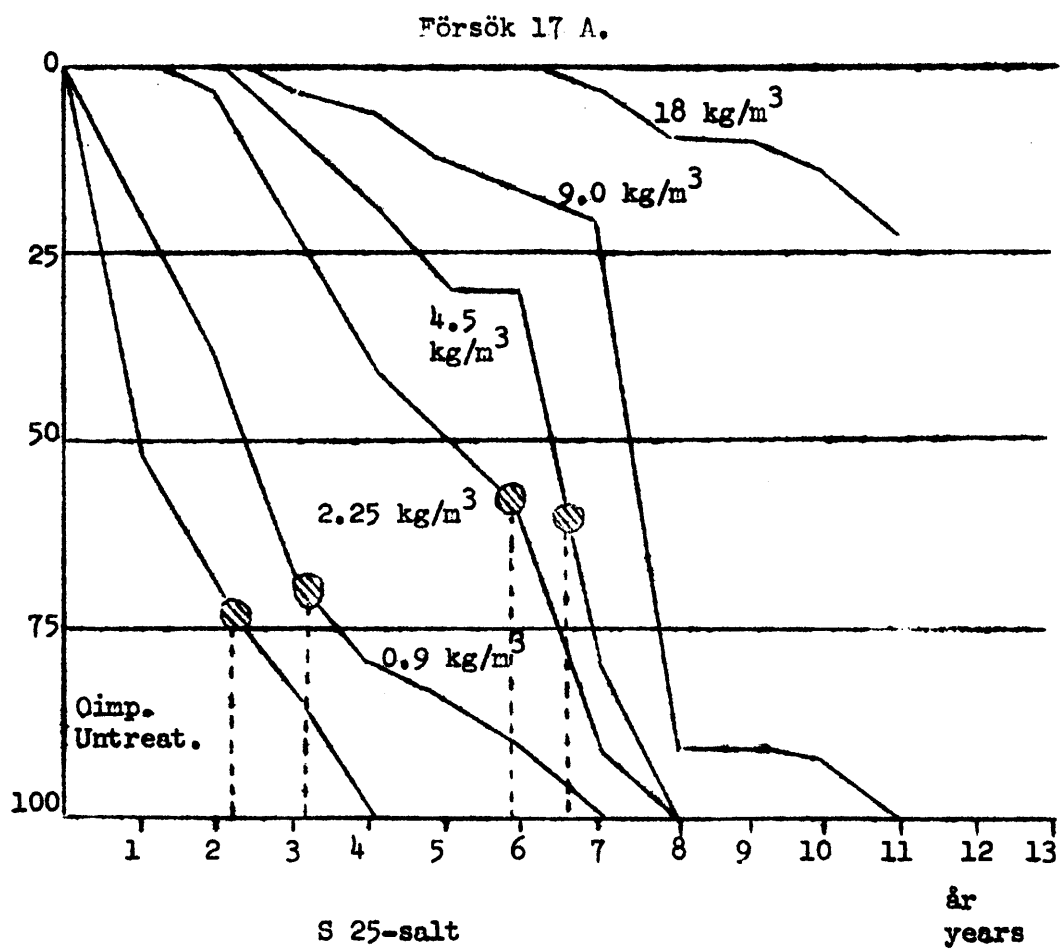


Fig. 4. Rötförloppet hos stavar impregnerade med S 25-salt på provfältet i Simlångsdalen.  
Rate of decay for stakes treated with S 25-salt on the experimental plot at Simlångsdalen.

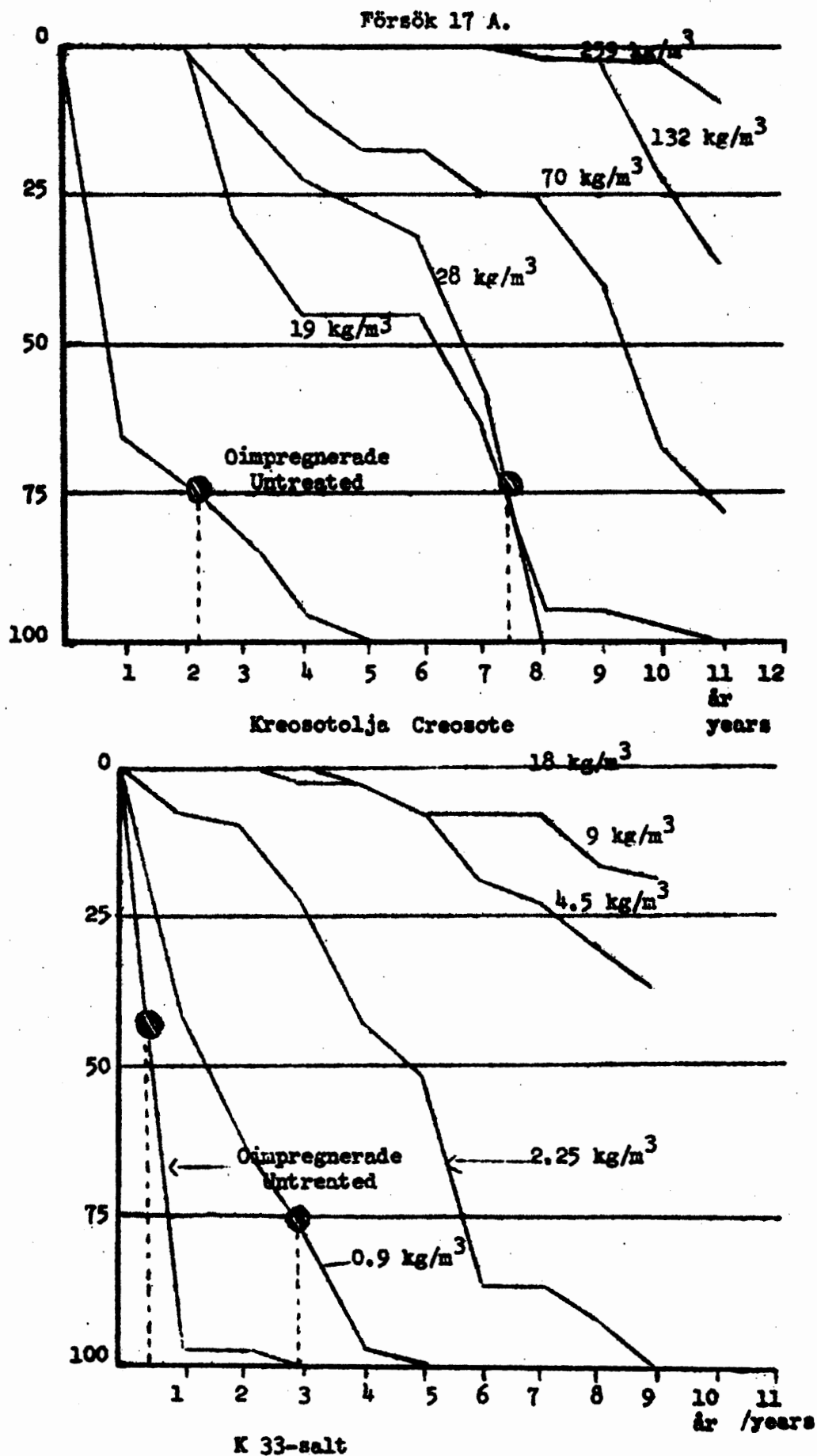


Fig. 5. Rötförloppet hos stavar impregnerade med kreosotolja och K 33-salt på provfältet i Simlångsdalen.

Rate of decay for stakes treated with creosote and K 33-salt on the experimental plot in Simlångsdalen.

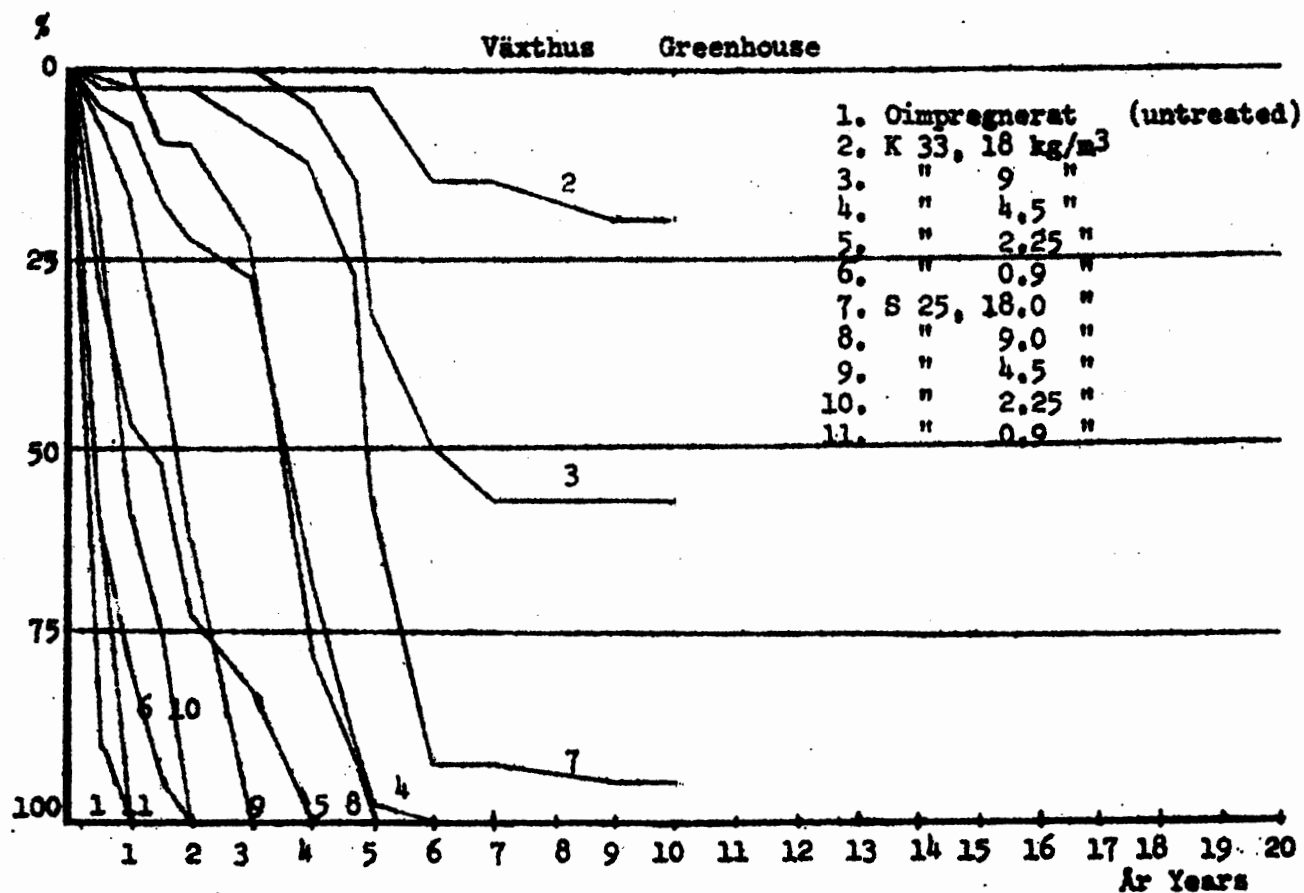
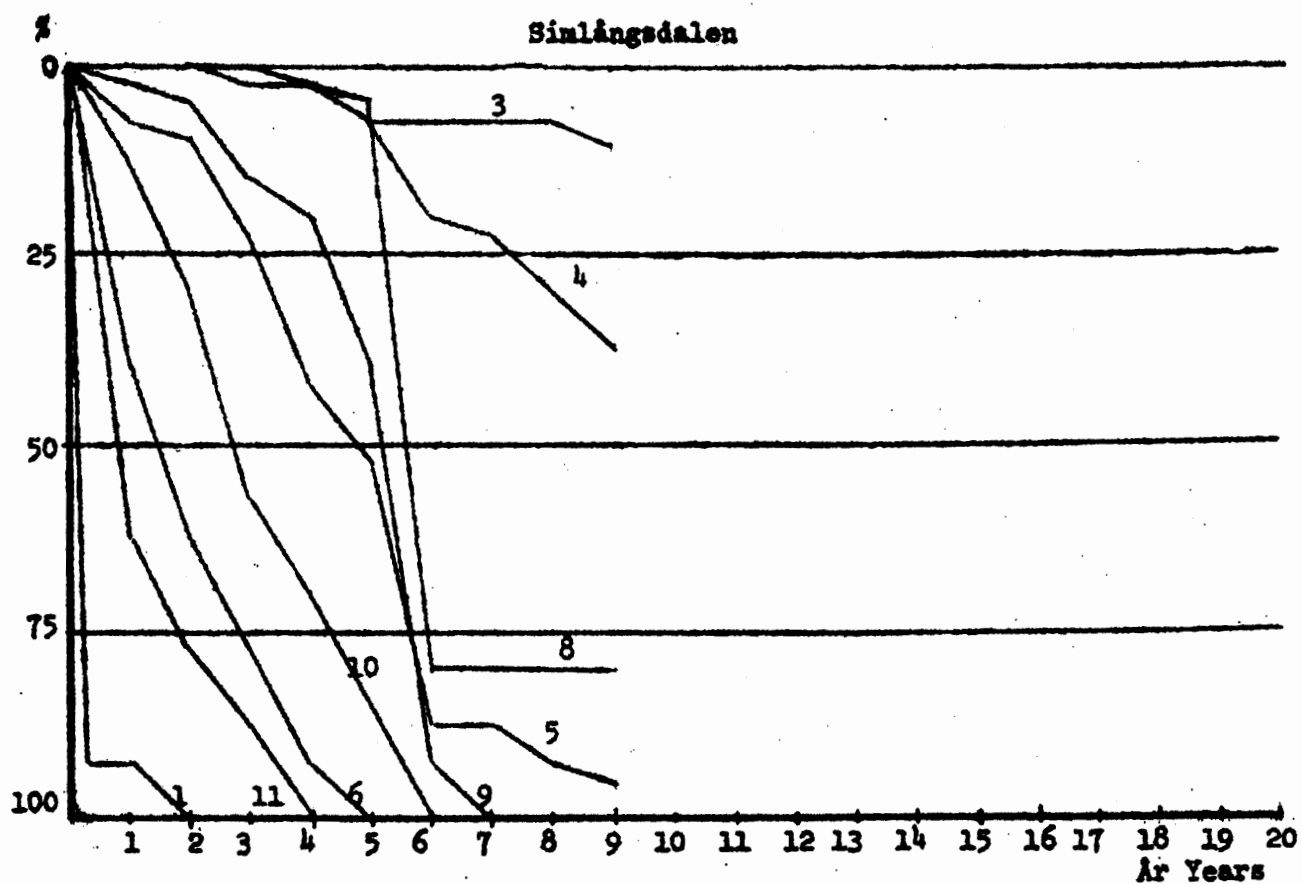


Fig. 6. Försök 19 A: Rötförloppet hos stavar, impregnerade med K 33 och S 25. Simlångsdalen och växthus.

Rate of decay for stakes treated with Boliden salt K 33 and S 25. Simlångsdalen and greenhouse.