1916-01ServiceTest_of_CrossTies

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also say, in general, the urgent demand for statistics on the service of treated ties may not necessarily be prompted by a doubt as to the efficiency of tie treatment in general, but rather for purposes of comparison, is order that, among the many processes or methods of treatment that are being used one might be selected that was more suitable for the species of timber to be treated.

When the conditions of tie supply with a railroad are fixed, as they are in numerous cases, there being no choice in the source of supply or the kind of timber as well, certain of the many questions which arise in connection with timber treatment are curtailed; and railroads that are thus situated are not so likely to be interested in numerous solutions or methods. The great variety of timbers, climatic conditions, service conditions, the haulage distance from sources of supply, however, have rendered almost every kind of record on the service of cross ties pertinent information to one railroad or another.

A committee appointed by the American Wood Preservers' Association to report on service test of crossties made a report at the annual meeting held in Chicago, in January. This committee had compiled over 1200 individual records, involving more than 50 species of timber. The work was done by R. H. Teesdale and C. P. Winslow, of the Forest Products Labotatory, of Madison, Wis. The report presents numerone tabulations, summarizing the more important records obtained. Of the records 287 relate to untreated iles, covering 42 species of timber, and of these 115 records are complete, or for a period equal to that of the life of the timber. These records were obtained from 27 different railroads. Of the treated ties there are 624 records, from 28 different railways, and 80 of such records are complete,

As for untreated ties, the completed records show a life of from twelve to thirteen years, for a relatively small number of juniper ties used by the Norfolk & Southern Ry. The shortest record is 2½ years, for a test on a relatively small number of gum ties on a railroad in Texas. Among the records for the empty-cell process of creosoting, only one is complete, and this shows an average life of ten years for oak ties in the Big Four road, but as none of the ties were removed by reason of decay, this one record is of no particular significance.

Of 162 records from 31 different railroads which have made tests of creosoting proper, fifteen records are complete. The best service reported is an average life of 20 years for hemlock ties, in the New York New Haven & Hartford R. R. tracks. This is a very good record, inded, for hemlock ties, but even then the ties were removed because of rail cutting, and not because of decay. Six records of the open tank creosote treatment, none of which were complete, show a life of 9½ years for pine ties, in the Mexican Central Ry, tracks, all of the ties being still in service. Of 183 records relating to zinc-chloride treatment, 41 were complete.

The maximum life, as far as reported, show approximately 10.7 years for red tak ties, in tracks of the Illinois Central R. R., and 9 to 11.3 years for the Douglas fir ties in tracks of the Southern Pacific Co.

It will not be necessary here to go into summarization of tests of other kinds of woods or other processes, but it might be suggested that the tabulations and other data of the report submit valuable information for persons having in hand studies on various woods or processes. Although the number of records which the committee have handled thus far is large, additional ones are called for. One series of tests on which the committee is lacking data is on intreated ties of beech, birch, maple, gum, eastern and western hemlock, western larch and several species of pines. As for treated ties, the committee reports scarcity of records on the empty-cell processes, available ones on these being fewer than with other processes.

The compilation of records on treated and untreated ties used in electric railways is not as extensive as those used on steam roads, but the work has been taken up and some general information is available regarding untreated ties used on interurban lines, and in paved streets, in macadam streets and in unpaved streets.

Aluminum in Passenger Car Construction.

The materials of passenger car construction, since the idea of supplanting wood first had its inception, has been a subject that has received a great deal of attention. Aided by the widespread publicity given the so-called "all-steel" principles of construction, those whose interest in the subject has been merely casual have taken that term quite literally. Likewise have also certain roads and car builders with the result that they have come to realize that to accept and apply the term in its literal sense is, at least, not a rational thing to do. From the first it was realized that floors must be made of some material other than steel, and almost as soon did the builders conclude that steel was not suitable for headlinings, though in some cases it has been applied successfully. Interior steel sheathing very soon called for some form of interlining and at the present time, many are very favorably inclined to a reversion to wood as an interior finish, notwithstanding the supposedly greater fire risk involved in its use. Demonstration of the fitness of these materials for their respective jourposes helps us to approach that selection that gives, in the light of our experience, the best results, and since we seem to be approaching a compromise between the two materials that have in succession virtually monopolized the field, it might be thought that we will shortly have the passenger car material question definitely settled. Contemporary development on another continent, however, serves to put the matter in doubt.

Heretofore our cut and try methods of car design and hullding have been with the idea of attaining inflamA. H. Hearsh

SERVICE TESTS OF CROSS TIES

BY

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AND

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Reprinted from Twelfth Annual Proceedings of the American Mond-Preservers' Association

REPORT OF COMMITTEE ON SERVICE TESTS OF CROSS TIES.

To the Members of the American Wood-Preservers' Association:

The instructions issued to your Committee on Service Tests of Cross Ties at the time of its appointment were substantially as follows:

First: To compile and tabulate in a usuable form all the data which could be secured on service tests of ties in both steam and electric roads, indicating in each record the kind of wood and method of treatment and all other data which would be of value.

Second: To point out on what species of wood and character of treatments service records and data are especially lacking.

Third: To make recommendations as to how additional data might be effectively procured.

The Committee has so far as possible followed these instructions, and presents to you a report consisting briefly of the following:

- 1. A compilation of durability records of treated and untreated ties involving data on over 50 species and including over 1,200 individual records. This compilation has been under preparation by Messrs. Winslow and Teesdale of the Forest Products Laboratory at Madison, Wis., for some time, and it appears in this report as a contribution from its authors.
- A series of tabulations, summarizing the more important and apparently effective records presented in the above mentioned compilation.
 - 3. Discussion of data included in the report.
 - 4. Information on ties used in electric railways.
 - 5. Recommendations.

It seems advisable to discuss the contents of the report in the order enumerated above.

Compilation of Records.

The authors of the compilation present with it a short description of the procedure followed in its preparation, the nature of its contents, and how it may be most effectively used for reference purposes. Further discussion of this phase of the report hardly seems necessary, except to point out that the compilation is believed to be the most complete which has yet been published, and will serve both as a valuable reference to practically all known durability records, and as a basis on which to build in the future.

Summary Tables.

While the detailed compilation discussed above is of prime value in forming a complete reference to all available records, it is recognized

INSERTIONS

It is suggested that the following be inserted in the proper places in the report on "Service Tests of Cross Ties." If this is done the report will be much more easily understood.

Page 2, Line 18

Insert at end: "See tables, pages 26-74, inclusive, and text on page 10."

Page 2, Line 21

Insert at end: "See pages 11-25, inclusive."

Page 2, Line 27

Insert after title: "Pages 26-74, inclusive."

Page 2, Line 36

Insert after title: "Pages 11-25, inclusive,"

Page 10, Paragraph 1

On first line, insert after "tables": "Pages 26-74, inclusive."

Page 10, Paragraph 5

On first line, insert after "Tables 1-30": "Pages 26-74, inclusive."

that it contains many records which are of little value in establishing the natural durability of the species, or in the effectiveness of treatment. This is due to the fact that, in some cases, individual records include results secured from several species, and from the available information it has been impossible to reclassify the data to show what was the result with each species separately; in other cases, the data regarding the method of treatment, absorption secured, character of track, conditions, etc., are insufficient to be of much value; while again in other cases, records may show a test started many years back, but apparently never followed up for a sufficient period to give valuable information.

For the foregoing reasons, a series of tabulations (Tables 1 to 7, inclusive) have been prepared to show in summarized form the results which have been secured from what may be termed the effective records which are available for untreated ties and ties treated by the processes in most general commercial use. These tables are classified, first by method of treatment, and secondly, by species, and serve as supplementary tabulations to the detailed compilations. Further information than is contained in the summary tables may be readily secured by reference to the detailed tables and from that point in many cases further data may be secured by correspondence with the individuals listed as authorities for the data.

While all possible care has been taken in the preparation of these summary tables, it is recognized that errors of greater or less importance may have inadvertently occurred. The Committee will accordingly appreciate it if those noting such errors will kindly call them to its attention.

Discussion of Data.

Following is a brief summary of the information contained in the summarized tables:

Summary. (Approximate.)

| | N C | No. | of Records | | No. of | Railroad | 3 |
|----------------|-------------------|----------------|-----------------|-------|----------------|-----------------|-------|
| Treatment | No. of Species | Com- pleted | Unfin- ished | Total | Com- pleted | Unfin- ished | Total |
| Untreated | 42 8 3 | 115 | 172 | 287 | 15 | 21 | 27 |
| Rueping | 8 | 0 | 54 | 54 | 0 | 7 | 7 |
| Lowry | 3 | 1 | 5 | 6 | 1 | 1 | 2 |
| Creosote (Full | | | - | | | | |
| or Bethell) | 27 | 15 | 147 | 162 | 9 | 29 | 31 |
| Creosote | | | | | E. | | |
| (Open-Tank) | 5 31 | 0 | 6 | 6 | 0 | 4 | 4 |
| Zinc chloride | 31 | 41 | 142 | 183 | 9 | 13 | 16 |
| Card | 21 | 0 | 91 | 91 | 0 | 3 | 4 3 |
| Allardyce | 18 | 9 | 25 | 34 | 3 | 4 | 4 |
| Wellhouse | 17 | 14 | 74 | 88 | 6. | 9 | 12 |
| Total | | 195 | 716 | 911 | 27 | 47 | 54 |

It will be noted that the number of effective records is approximately 911, of which 716 are unfinished. Further information may be expected from these in the future. Furthermore, the total number of effective records is supplied by 55 railroads, of which 48 supplied the at present unfinished records.

Considering each table separately, the following points are noticeable.

Untreated Ties.—Of the total of 287 records, 200, or approximately 66%, are supplied by six railroads. Seventy-nine of the records are from the C. B. & Q.; 39 from the N. P.; 34 from the I. C.; 27 from the G. H. & S. A., and the remainder from the C. M. & St. P. and G. C. & S. F. Of the unfinished records, close to 50% are supplied by the C. B. & Q., which together with the I. C., N. P., and the C. M. & St. P., supply over 80%. Of the completed records, the longest life reported in the United States is 12 to 13 years for 1,185 juniper ties in the tracks of the Norfolk and Southern; the shortest record is approximately 2.5 years for 83 gum ties in the tracks of the G. H. & S. A.

Empty Cell Creosote Treatment.—This tabulation includes records on ties treated respectively by the Rueping and Lowry processes. It is of interest to note that of the total of 54 records of ties treated by the Rueping process none are yet completed. All of the records are covered by seven railroads, the I. C., and the A. T. & S. F. furnishing most of the records. The longest service so far reported is no removals of 146 pine ties after 9½ years in the Mexican Central Railway. The remaining records are on ties which have been in place from one to 11 years. The removals vary from nothing up to about 9%.

Of ties treated by the Lowry process, the total available effective records are six, located in the tracks of two railroads, (Big Four and D. L. & W.) One of the records, (the only one completed), shows an average life of 10 years for oak ties in the tracks of the Big Four Railroad with the added information that none were removed on account of rot. The remaining five records involve ties which have been in the tracks of the D. L. & W. for 1 to 5 years, with no removals reported so far.

Bethel and Full Cell Creosote Treatments.—Of a total of 162 records supplied by 31 railroads, 147 records from 29 railroads are unfinished. Of these, approximately 50% are supplied by the C. B. & Q. and 15% by the G. H. & S. A. Of the completed records, the best service reported in this country is an average life of 20 years for 400 hemlock ties laid in 1880 in the tracks of the N. Y., N. H., & H., with removals reported as due to rail-cutting and not to rot. The shortest service recorded is that of complete removal in 7 to 9 years of 20,000 yellow pine ties from the tracks of the D. L. & W., with the added information that many of them were killed by steaming during treat-

ment, and removals largely caused by crushing under tie plates. With the unfinished records, some of the ties have been in service as long as 23 years, while others have been installed for only 1 or 2 years. They should ultimately give information of much interest.

Open-Tank Creosote Treatments.—But six records, none of which are completed, are available. The best service so far reported is no removals of 29 pine ties after 9½ years in the tracks of the Mexican Central Railway.

Straight Zinc Chloride Treatment.—There are 183 records involved in this treatment, of which 142 are at present uncompleted. Of these unfinished records, over 45% are on ties in the tracks of the C. B. & Q. Railroad, the remainder being scattered over 12 other roads. The maximum life so far reported shows approximately 10.7 years for 3,080 red oak ties in the tracks of the I. C. Railroad, and from 9 to 11.3 years for many thousands of Douglas fir ties in the tracks of the Southern Pacific. The minimum life reported is complete removal, at 3 years of 8 redwood ties in the tracks of the G. C. & S. F. and similar results at 5½ years with 1,000 sap pine ties in the tracks of the G. H. & S. A. and an average life of 5 to 6 years in the tracks of the Wabash.

Combination Zinc and Creosote Treatments.—These are considered in two divisions. First, those treated by the Card process, and secondly, those treated by the Allardyce and other methods of combination.

Of the Card treatment there are available a total of 91 records, all of which are still unfinished. These are all included in the tracks of three railroads, the C. B. & Q. furnishing 83 records and the C. M. & St. P., seven. Of the unfinished records, the best results reported show after 7 years no removals of 596 hard maple ties in the tracks of the C. M. & St. P., while the poorest results reported show 67% removals on account of rail cutting of 160 loblolly pine ties after 6 years in the tracks of the C. B. & Q.

Of the Allardyce and other combination treatments, there are a total of 34 records, 25 of which are unfinished. These are included in four railroads,—the G. C. & S. F. and the G. H. & S. A. supplying by far the greater proportion. Of the completed records, the maximum life as reported is an average of 14 to 18 years for about 1,800 pine ties in the tracks of the G. H. & S. A. The minimum life is given as 100% removal of a few turkey oak ties after 3 years in the G. C. & S. F. Of the unfinished records, the best report is that of 41 Douglas fir, with only 5% removals in 8½ years in the tracks of the C. B. & Q.

It would appear from the foregoing that in order to round out and complete the data at present available, additional records are needed in the following:

- 1. Untreated ties of beech, birch, maple, gum, eastern and western hemlock, western larch and the various pines. These are species largely used for ties, and for which there are very little available durability data.
- 2. Untreated ties of Pinon pine, white fir, Alpine fir, red fir, (Magnifica) and Engleman spruce. These are species occurring in the West and Northwest, and offering the possibility of an increased use in the future.
- 3. Ties treated by the Lowry process and to somewhat less extent, by the Rueping process. Available records of these two processes are much fewer than with the other processes.

Information on Ties Used in Electric Railways.

Time has not permitted a thorough compilation of records on treated and untreated ties used in electric railways, but the following more or less general information may prove of interest.

1. Untreated Ties: Interurban Lines. The following estimates were secured from officials of six companies operating in the Middle West:

| | | TIES | IN I | NTI | ERURB | AN LI | VES. | |
|---------|-----|------------|-------|------|---------|-------------|--------|-----------|
| Ceda | r. | Untreated. | No | tie | plates. | 7-8 9-10 | years. | Michigan. |
| | | ** | With | 1 11 | 66 | 12-15 | 66 | " |
| | | | ***** | | | 15-16 | ** | ** |
| " | | ** | No | ** | 66 | 11-12 | 66 | Illinois. |
| White | oak | *** | *** | " | ** | 7- 8 | ** | Michigan. |
| W IIICC | Oak | | | | | 10-12 | ** | " |
| " | " | ** | ** | " | 66 | 6- 7 | ** | Indiana. |

2. Untreated Ties: Unpaved and Macadam Streets. Officials of several companies operating in the Middle West supplied the following estimates:

Cedar. Untreated. 11-12 Years. Illinois White oak 8-10 " 8-10 " " Oak and beech. Reported as badly decayed and removed after 2 years from track laid on gravel ballast in Illinois.

- 3. Untreated Ties: Paved Streets. A third and important condition under which ties are used is in tracks in paved streets. The situation is complicated not only by lack of authentic data, but by the variety of types of construction in use. Some of those in use in the Middle West are:
 - (a) A monolythic construction of 6-in. concrete under and between the ties and about 1-in. over the top of the tie, followed by a 1 to 2-in. sand cushion upon which the brick is placed.
 - (b) Six inches of concrete foundation, then about a 1-in. sand cushion upon which the tie is placed, then concrete between and over tie to about 1 in., followed by sand cushion and brick.
 - (c) Six to 8 in. of rock or gravel ballast on which the tie is placed, then concrete between and slightly over the tie, followed by sand cushion and brick.

Some light is thrown on the service secured from untreated ties in these types of track by the following summation of opinions expressed by officials of a number of companies operating in the Middle West:

Substance of Opinions as Expressed by Officers of Various Companies.

| Locality | Species | Life Un- Treated Years | Remarks |
|---------------------------|------------------------------|---------------------------------|--|
| Michigan " Illinois | .White oak | 12-15 20 10 20-25 | Life of tie equal to life of rail. Life of tie equal to life of rail. Equal to life of rail, provided tie is not disturbed. |
| Indiana Illinois | Hemlock Tamarack Cedar | 20 15-20 | Life of tie equal to life of rail. Life of rail. |

There was also rather a consensus of opinion among the operators of the Michigan properties that the tie would last as long as the rail, provided it was not removed from the track, but that, at least with cedar ties, decay had been observed to advance quite rapidly after removal from the track.

In substantiation of the opinions expressed in Illinois, it was stated that untreated tamarack ties, which had been in place in a paved street for approximately 17 years, were examined when it became necessary to reconstruct the track and pavement. These ties were found in excellent condition, and were placed in the street when the new pavement was laid. This is the most striking case of long service in a paved street which has come to the attention of the writers.

Somewhat contradictory to the foregoing are the following data which were secured:

Michigan. Untreated ties in a paved street where repaving was under way were examined. These ties were reported as having been in service for 8 to 10 years. A number of cedar ties showed decay, especially on the ends, although the oak appeared in fair condition. Some of these ties had been removed from the street and placed in the storage yard, with a view to further use in open track. These ties were in bad condition, and most of them not fit for further use.

Figs. 1 and 2 illustrate the condition of two cedar ties, one of which had been removed from this street for approximately one month, and the other for approximately three months. It was reported that both of these ties looked perfectly sound when removed.

Michigan. Untreated red oak ties said to have been in a brick paved street laid on gravel for 8 years were examined as the entire reconstruction of the street was under way. They were practically all



Fig. 1. Section of cedar tie removed from paved streets in Michigan. Tie reported to have been removed in October, 1913, after 8 to 10 years' service. Photo taken in November, 1913.

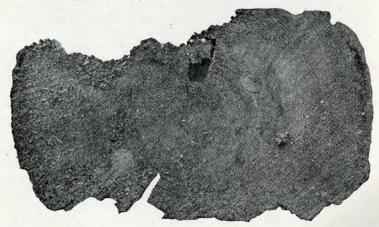


Fig. 2.—Section of cedar tie removed from paved streets in Michigan. Tie reported to have been removed in June, 1913, after 8 to 10 years' service. Photo taken in November, 1913.

in the most advanced stages of decay. The middle portions of the ties were in most cases entirely destroyed, leaving only small disconnected sections under the rails.

Illinois. Ties were examined in the storage yard, which were said

to have been removed after 9 years' service in a paved street consisting of 6-in. rock ballast on which the tie was laid with concrete then placed between and over the ties and brick on top. Much decay on the bottoms and ends of the ties was noticed.

Other untreated ties seen in the storage yard, which were said to have been removed after 20 years' service from a brick paved street laid without concrete, showed bad decay.

Recommendations.

Your Committee respectfully recommends that, for the coming year, the attempt be made to continue the work along the following lines:

- 1. Use the detailed compilation of records as a reference and basis from which to proceed, additional data which can be secured being put in the form of this compilation and published separately each year without attempt to republish the compilations accompanying this report.
- 2. With completed records, as given in the summary tabulations, so far as possible secure additional information for those showing either exceptionally long or short service. This additional information to be included in subsequent reports of the Committee.
- 3. With the uncompleted records, make every effort to keep them constantly up to date, presenting to the Association each year such tabulations together with such special reports as it may be practicable and advisable to include.
- 4. Continue the attempt to secure authentic information of the service secured from treated and untreated ties in the tracks of electric railways, both interurban and city lines.

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CARLILE P. WINSTOW, Chairman.

L. T. ERICSON,

C. F. FORD,

C. E. GOSLINE,

F. D. MATTOS,

GEO. L. POLLOCK,

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DURABILITY RECORDS OF CROSS TIES.

By C. P. Winslow

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and

C. H. Teesdale

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The records embodied in the accompanying tables were compiled with a view to providing as complete and systematic a compilation as possible, to serve as a reference to all available records on the durability of treated and untreated cross ties. They comprise approximately 1,200 records on over 50 species, and include all records which it has been possible to locate by correspondence with railroads throughout the United States, and by intensive search of engineering literature extending over many years.

Some of the records have been available in published form for many years, and the experiments upon which they are based are concluded, while others are of comparatively recent origin.

The tabulation, therefore, is of value, both as a reference to the older and completed records, and to tests now under way, which it will be of interest to follow in the future.

In tabulating the data, the general procedure, so far as possible, was to include in each individual record ties of only one species, with the same method of treatment and average absorption, and subjected to approximately similar conditions in the track. For this reason, many records which were secured were segregated into a much larger number of individual records, and this accounts for the fact that over 1,200 records appear in the accompanying tabulations.†

Tables 1-30, inclusive, present the data in detail. The records are arranged alphabetically by Species, Table 1 covering ash, Table 2 beech, etc. Each table of species is then further classified alphabetically by Preservatives, this classification being further subdivided alphabetically by Processes. Throughout these tables, column No. 1, entitled "Index Number," is used for convenience in referring to individual records in any table, and the numbering permits of the ready insertion of additional records which may subsequently become available. Column No. 24, entitled "Reference Number," refers to the accompanying sheets entitled "List of References and Authorities Quoted" which give the source and authority for all of the data included in the tabulation.

[†]An exception to this general procedure occurred with a large number of records from C. B. & Q. Railroad. These included many species and treatments, the ties being installed in a wide number of locations. To facilitate the prepraration of the tabulation, the records were merely classified according to their location in the "Lines East or West" of the Mississippi.

TABLE 1. EFFECTIVE DURABILITY RECORDS.—UNTREATED TIES.

| | Total F | Records | | | Completed Records | | | | Unfinished Record | s |
|--------------------------|---------|---------|------|-----------------|--|------------------|------|------------------|---|----------------------------|
| Species | Rec. | R. R. | N | umber | Results | R. R. | N | umber | Results | R. R. |
| | Rec. | K. K. | Rec. | Ties | Results | K. K. | Rec. | Ties | Results | K. K. |
| Ash | 4 | 1 | | | | | 4 | 113 | 4 yrs—13 to 20% out | C. B. & Q. |
| Beech | 5 | 2 | 1 | 100 | Avg. life 3 yrs. | G. C. & S. F. | 4 | 206 | 5 yrs.—76% out 4 yrs.—20% out | " |
| Birch, Red | 4 | 1 | 4 | 218 | | C. B. & Q. | | | 5 yrs.—71 to 87% out | |
| Cedar | 6 | 2 | | | | | 1 1 | 83,200 500 | 10 yrs.—6% out 13 yrs.—38% out | G. T. |
| | :: | | : | | | i. c | 4 | 1,274 | 2-4 yrs.—none out | C. M. & St. P. |
| Chestnut | 3 | 3 | 1 | 21,280 2,816 | Avg. life 4.8 yrs. | I. C. P. & R. | 1 | 90 | 5 yrs.—9.3% out | C. B. & Q. |
| Cottonwood | 2 | 1 | 2 | 2,010 | - " " 4 " | C. B. & Q. | :: | | | |
| Cypress | 20 | 3 | 3 | 1,253 | 19 yrs.—100% out | G. H. & S. A. | 9 | 14,958 | 5 yrs.—none out—10 yrs. 20-30% out—19 yrs. 50- | G. H. & S. A. |
| | | | | | | | 4 | 228 | 100% out 4 yrs 3-4% out, 5 yrs. 35 to 40% out | C. B. & Q. |
| Cypress, yellow | . ; | ; | i | 25,600 | 7 yrs.—100% out | i. c. | 4 6 | 1.096 195,679 | 3 to 4 yrs.—none out 7 to 10 yrs. 40 to 80% out | I. C. |
| Cypress, red | 1 | 1 | | 23,000 | 7 yrs.—100% out | | 1 | 1,200 | 14 yrs.—4% out | " |
| Elm, white | 5 | ī | 1 | 30 | Avg. life 5 yrs. | C. B. & Q. | 4 | 192 | 4 yrs.—3 to 30% out 5 yrs.—70 to 75% out | C. B. & Q. |
| Fir, red Fir, Douglas | 5 27 | 4 | . 5 | 1,270,241 | Avg. life 7 to 9 yrs. 8.3 yrs.—100% out | Germany N. P. | i.i | 2,012 | 8.3 yrs. 0 to 98% out | N. P. |
| rii, Dougias | | 7 | | | 6.5 yrs.—100% out | | 1 | 89 | 8.5 yrs. 45% out | C. B. & O. |
| | | | | | | | 1 | 64 | 4 yrs.—none out | C. B. & Q. W. V. & N. |
| Fir, Oregon | ż | i | | | | | 1 2 | 2,013 | 4 yrs.—none out 4 yrs.—none out | C. M. & St. P O. W. Ry. |
| Gum, red | 6 | 2 | 1 | 31 | Avg. life 4 to 5 yrs. | C. B. & O. | 2 | 154 | 5 yrs. 80 to 90% out | & N. Co. C. B. & O. |
| | | | , | 40 | | | | | 6 yrs. 100% out | " |
| Gum, Tupelo Gum, red | 5 | 2 | 3 3 | 42 | " " 2.5 yrs. " " 2.5 " | G. H. & S. A. | 2 | 135 | 5 yrs. 94 to 97% out | |
| Hemlock | 13 | 3 | 2 | 201 | " " 2 to 3 yrs. | G. C. & S. F. | 4 | 187 | 4 yrs. 7 to 15% out | C. B. & Q. |
| | | | 4 | 80 | " " 6.5 yrs. | C. & N. W. | 3 | 90 | 5 yrs. 70 to 85% out 8.5 yrs.—70 to 95% out | C. & N. W. |
| Hemlock, western | 2 | 1 | 2 | 203 | " " 7.3 ". | N. P. | | | | |
| Hickory, pignut | 4 | 1 | | | | | 4 | 119 | 4 yrs.—0 to 44% out 5 yrs.—50 to 70% out | C. B. & Q. |

Table 1. Effective Durability Records.—Untreated Ties.—Continued.

| | Total | Records | | (| Completed Records | | 11 | 1. | Unfinished Record | S |
|---|--------------------|------------------|------------------|-------------------------------|--|--|-----------------------|---|--|--|
| Species | D | n n | Num | ber | D. Iv | R. R. | | Number | Results | R. R. |
| | Rec. | R. R. | Rec. | Ties | Results | R. R. | Rec. | Ties | Results | K. K. |
| Juniper Larch, western Maple Maple, hard | 10 13 2 4 | 1 1 1 1 | 10 13 | 1,185 1,119 | Avg. life 12 to 13 yrs. " " 6 to 8 yrs. | N. & S. N. P. | ··· 2 4 | 100 120 | 3 yrs.—none out 4 yrs.—20 to 80% out 5 yrs.—86 to 96% out | C. M. & St. P. C. B. & Q. |
| Maple, soft Oaks, various | 11 : | 1 6 : | 1 6 1 | 2,002,756 | Avg. life 3 to 4 yrs. " "10-16 yrs. " "13.5 yrs. | C. B. & Q. Germany France | 3 1 1 1 | 201,600 8,605 118,400 | 4-5 yrs.—76-97% out 10 yrs.—47% out 7 yrs.—46% out 4 yrs.—25% out | B. & O. Erie Mo. P. |
| Oak, Black Oak, Chestnut Oak, Danish Oak, Pin | i 1 1 4 | i 1 1 1 | i 1 | 25 424 | Avg. life 4.6 yrs. 11 yrs.—99% out | G. C. & S. F. B. & O. | 1 1 4 | 3,500 123 | 13 yrs.—75% out 11 yrs.—15% out 4 yrs.—none out | M. & O. Denmark C. B. & Q. |
| Oak, Red | 13 | 3 | 1 | 93 | Avg. life 4 yrs. | G. C. & S. F. | 5 | 257 | 5 yrs.—46 to 52% out 4 yrs.—0-4% out 5 yrs.—70% out | " |
| Oak, Spanish Oak, Swedish Oak, Turkey Oak, White | i 1 1 1 | i 1 1 1 | i i | 20 | Avg. life 5 yrs. Avg. life 4.3 yrs. | G. C. & S. F. G. C. & S. F. | 4 3 1 | 160,000 200 13,000 | 6 yrs.—92% out 5-7 yrs.—2-11% out 3 yrs.—none out 11 yrs.—62% out 4 yrs.—20% out | I. C. C. M. & St. P. Denmark I. C. |
| Mississippi Oak, White | | | | | | | 1 | 274 | 4 yrs.—6% out | I. C. |
| Tennessee Oak, White | 35 | 12 | 1 1 1 1 | 8,400 16,915 300 196 | Avg. life 3-5 yrs. " " 10 " " " 8.6 " " " 8.6 " " " 6.75 " | I. C. C. B. & Q. P. & R. N. & S. G. C. & S. F. | 4 6 5 3 4 | 125 3,743 157,176 498,168 1,012,300 | 4-5 yrs.—0 to 4% out 3 to 4 yrs.—1-25% out 3-7 yrs.—21-89% out 9-11 yrs. 13-40% out 3 yrs.—11% out, 7 yrs. 92% | C. B. & Q. I. C. " C. R. I. & P. |
| | | | 1 | 57,000 | 14 yrs.—100% out Avg. life 22 R. Rds. | L. S. & I. | 1 1 1 1 | 342,400 9,758 500 50 | out 5 yrs.—30% out 8 yrs.—32% out 18 yrs.—51% removed 7.5 yrs.—36% out | St. L. I. M. & S M. R. & B. C. M. & St. P. C. & N. W. |
| | : | : | | | 8.25 yrs. | | 1 2 | 760 355 | 4 yrs.—none out 4 yrs.—none out | B. & O. C. M. & St. P. |

TABLE 1. EFFECTIVE DURABILITY RECORDS.—UNTREATED TIES.—CONTINUED.

| | Total | Records | | | Completed Records | | Unfinished Records | | | | | | |
|---|--------|-----------------------|------------------|----------------------|--|--|---------------------------------------|---------------------------|---|--|--|--|--|
| Species | n | D D | Nu | mber | D. L | n n | | Number | Results | R. R. | | | |
| | Rec. | R. R. | Rec. | Ties | Results | R. R. | Rec. | Ties | Results | K. K. | | | |
| Oak, Willow Ohia, Pine Pine, Baltic Pine, Pacific | 1 2 5 | 1 1 3 1 1 | 1 2 1 2 | 20 260,360 100 | 4.5 yrs.—100% out Avg. life 5 yrs. " " 7-8 yrs. " 2.57 yrs. | G. C. & S. F. Germany France G. H. & S. A. G. H. & S. A. | · · · · · · · · · · · · · · · · · · · | 240 1 22,500 | 5 yrs.—none out 9 yrs.—19% out 11 yrs.—19% out 16 yrs.—67% out | A. T. & S. F. Denmark | | | |
| Pine, Heart Pine, Loblolly | 7 6 | 1 2 | 1 | 2,649 | Avg. life 5-9 yrs. 2 yrs.—100% out | G. H. & S. A. G. C. & S. F. | 5 | 271 | 4 yrs.—25 to 44% out 5 yrs.—73 to 83% out 6 yrs.—95% out | C. B. & Q. | | | |
| Pine, Lodgepole | 2 | 2 | | | | | 1 | 15 | 4 yrs.—none out | W. V. & N. | | | |
| Pine, Longleaf | *3 | 3 | i | 93 | 3 yrs.—91% out 9 yrs.—100% out | G. C. & S. F. | 1 | 2,100 99 | 8.5 yrs.—40% out 11 yrs.—none out 14-15 yrs. 87% out | C. B. & O. C. M. & St. P. T. C. I. & R. C | | | |
| Pine, Riga Pine, Shortleaf Pine, Swedish | i 9 | i i | i 9 | 100 353,300 | Avg. life 3.4 yrs. 7-11 yrs. | G. C. & S. F. Denmark | 1 1 | | 4 yrs.—7% out 7 yrs.—27% out | Denmark | | | |
| Pine, White Pine, Yellow | 1 3 | 3 | : | | | C. B. & Q. | 1 1 1 1 | 7,500 14,688 21,805 | 10 yrs.—42% out 7 yrs.—12.3% out 13 yrs.—43% out 4 yrs.—none out | C. M. & St. P. N. Y. C. & H. R P. & R. W. V. & N. | | | |
| Pine, Western Yellow Poplar | 4 | 1 | | ••••• | | | 4 | 129 | 4 yrs.—15-31% out | C. B. & Q. | | | |
| Sycamore | 4 | 1 | | | | | 4 | 140 | 5 yrs.—65 to 70% out 4 yrs.—55 to 80% out 5 yrs.—95% out | " | | | |
| l'amarack | 11 | 5 | 1 4 | 7,500 132 | Avg. life 7 to 8 yrs. "6 to 7 yrs. | D. & I. M. C. & N. W. | 1 4 | 2,966 172 | 10 yrs.—35% out 4 yrs.—10-15% out 5 yrs.—80 to 83% out | G. N. C. B. & C | | | |
| | | | 1 | | 3.5 yrs.—100% out | G. C. & S. F. | | | | | | | |

TABLE 2. EFFECTIVE DURABILITY RECORDS.—TIES TREATED BY EMPTY CELL CREOSOTE PROCESSES.

| - | Total | Records | | | Completed Reco | ords | | | Unfinished Records | |
|-----------------|-------|---------|------|-------|-------------------|----------|------|------------|--|-----------------------|
| Species | Rec. | R. R. | Nı | ımber | Results | R. R. | 1 | Number | | |
| | 1100. | ж. ж. | Rec. | Ties | Results | R. R. | Rec. | Ties | Results | R. R. |
| RUEPING | | | | | | | | | | - |
| Ash | 2 | 1 | | | | | 1 | 274 | 3 yrs.—none out | I. C. |
| | | | | | | | 1 | 274 | 4 yrs.—none out | 1 |
| Fir, Douglas | 1 | | | 1 | | 14 | | 10 | | |
| | | 100 | | | | | 1 | 40 | 8.5 yrs.—none out | C. B. & Q. |
| Gum, red | 2 | 1 | 1. | | | | 2 | 114 | 8 yrs.—none out 9 yrs.—7.5% out | St. L. & S. |
| Gum | 5 | 2 | | | The second second | 1-17 | | | | |
| oum | | | | | | | 1 | 203 | 4 yrs.—0.5% out 5.7"—practically none out | I. C. A. T. & S. 1 |
| | | | | | | | 4 | 15,500 | 5.7"—practically none out | A. T. & S. |
| Maple | 2 | 1 | | | | | 2 | 100 | 3 yrs.—none out | C. M. & St. |
| Oak, red | 14 | 4 | | | | | 1 | | | A CONTRACTOR |
| oun, rea | 14 | 1 | | | | | 2 | 197 | 6 yrs.— " " | St. L. & S. |
| | | | | | | | 4 2 | 445 | o yis.— | - " |
| | | | | | | | 3 | 548 | 3 y15.— | I. C. |
| | S D. | 1 | | | | | 2 | 822 100 | T y15. | |
| | 4 | | 1. | | | | 1 | 15 | 3 yrs.— " " 1 yr.— " " | C. M. & St. |
| P | | | 1- | | | | 1 | . 13 | 1 yı.— | C. B. & Q. |
| Pine | 19 | 4 | | | | | 1 | | 3 yrs.— " " | C. M. & St. |
| | 4 | | | | | | 1 | 196 | 9.5 yrs.—" " | Mex. Cent |
| | | | | | | | 4 | 195 | 7.5 yrs — " " | G. H. & S. |
| | | | | | | | 1 | 2,176,417 | 2 yrs.— " " | A. T. & S. 1 |
| | | | | | | | 12 | 90,630 | 10 yrs.—6 to 36% out; 11 yrs. 0 to 4% out | " |
| | | - | | | | | | | 0 10 4% 001 | |
| Pine, Loblolly | 7 | 1 | | | | | 2 | 822 | 3 vrs —none out | I. C. |
| | | | | | | | 3 | 548 | 3 yrs.—none out 4 yrs.— " " | 1 |
| | | - | | | | | 2 | 6,080 | 7 yrs.—1% out | ** |
| Pine, Shortleaf | 1 | 1 | | | | | | | | |
| Tine, Shortlear | 1 | 1 | | | | | 1 | 49,000 | 7 yrs.—none out | C. M. & St. |
| Pine, Lodgepole | 1 | 1 | | | | | 1 | 25 | 8.5 yrs.— " " | C. B. & Q. |
| LOWRY | | | | | | | | 11 - 1 | The second secon | S. 2. 4 2. |
| Chestnut | 1 | 1 | 1 | | | | | 1 200 | | the same of |
| Chesthut | 1 | 1 | | | | | 1 | 733 | 3 yrs.— " " | D. L. & W. |
| Oak | 3 | 2 | 1 | | Avg. life 10 yrs. | Big Four | 1 | 0.15 | 1 vr — " " | 1 |
| | | 1 | | | Avg. life 10 yrs. | Dig Four | 1 | 845 | 1 yr.— " " 3 yrs.— " " | " |
| | | - | , | | | | 1 | 0 | J yis.— | |
| Pine | 2 | - 1 | | | | | 2 | 136 | Placed 1915 | " |

Table 3. Effective Durability Records.—Ties Treated With Creosote by Full Cell and Bethell Processes, etc.

| | Total | Records | | | Completed Records | | | | Unfinished Records | |
|--------------|-------|---------|------|---------------|---|------------------------|-------------|----------------------------|---|------------------------------------|
| Species | Rec. | R. R. | Nu | ımber | Results | R. R. | Nu | nber | Results | R. R. |
| | Rec. | K. K. | Rec. | Ties | Results | K. K. | Rec. | Ties | Results | K. K. |
| Ash | 3 | 1 | | | | | 3 | . 35 | 4-5 yrs.—none out | C. B. & Q. |
| Beech | 8 | 4 | 1 : | 356,650 | Avg. life 25-30 yrs. | France | 2 1 4 | 2000-6000 21,440 468 | 10 yrs.—0-63% out 20 yrs.—50% out 4-5 yrs.—none out | Prussia Germany C. B. & Q. |
| Birch, red | 4 | 1 | | | | | 4 | 148 | 2-4 yrs.—none out | " |
| Chestnut | 3 | 2 | : | | | | 2 | 183 32 | 8 yrs.—none out 1 yr.—none out | D. L. & W. Picatinny Arsenal |
| Cottonwood | 2 | 1 | | | | | 2 | 122 | 5 yrs.—none out | C. B. & Q. |
| Cypress | 3 | 1 | | | | | 3 | 54 | 4 yrs.—none out | " |
| Elm, white | 4 | 1 | | | , | | 4 | 323 | 4-5 yrs.—2% broken | " |
| Fir, red | 1 | 1 * | | | | | - 1 | 224 | 1 yr.—no report | Anaconda Mg. Co. |
| Fir, Douglas | 7 | 3 | | | | | 5 | 442 | 8-3/10 yrs.—0-21.3% out | N. P. |
| | | | | | | | 1 | 1,395,975 | 2 yrs.—none out 8.5 yrs.—1.4% out | P. Ry. & Tr. Co C. B. & Q. |
| Fir, Oregon | 1 | 1 | | | | | 1 | 1,000 | 5 yrs.—0.2% out | P. Ry. & Tr. Co |
| Gum, red | 8 | 2 | | | | | 2 6 | 133 200 | 5 yrs.—none out 9 yrs.8-43% out | C. B. & O. G. H. & S. A. |
| Gum, Tupelo | 8 | 2 | : | | ::::::::::::::::::::::::::::::::::::::: | | 6 | 151 201 | 5 yrs.—none out 9 yrs.—4-39% out | C. B. & O. G. H. & S. A. |
| Hemlock | 8 | 3 | 1 1 | 400 25,000 | Avg. life 20 yrs. " 5-12 yrs. | NY,NH,&H C. B. & Q. | 5 | 252 5,000 | 3-5 yrs.—none out 10 yrs.—50-70% out | C. B. & O. C. R. I. & P. |

TABLE 3. EFFECTIVE DURABILITY RECORDS.—TIES TREATED WITH CREOSOTE BY FULL CELL AND BETHELL PROCESSES, ETC.—CONTINUED.

| - 17 | Total | Records | | | Completed Records | | | | Unfinished Records | |
|-----------------|-------|---------|------|---------------------|-------------------------------------|---|---|--|---|---|
| Species | Rec. | R. R. | Nu | mber | Results | R. R. | Nu | mber | Results | R. R. |
| 1/11 | Rec. | R. R. | Rec. | Ties | Results | R. R. | Rec | Ties | Results | R. R. |
| Hickory, pignut | 3 | 1 | | | | | 3 | 24 | 2 yrs.—none out | C. B. & Q. |
| Juniper | 2 | 1 | 1 | . 25 | Avg. life 17 yrs. | N. & S. | 1 | 75 | 15 yrs.—4% out | N. & S. |
| Maple | 2 | 1 | | | | | 2 | 100 | 3 yrs.—none out | C. M. & St. P. |
| Maple, hard | 5 | 1 | | | | | 5 | 128 | 3-5 yrs.—none out | C. B. & Q. |
| Maple, soft | 4 | 1 | | | | | 4 | 201 | 4-5 yrs.—none out | " |
| Oak | 4 | 2 | 1 3 | 67,678 1,402,050 | Avg. life 19.6 yrs. " 12-20 yrs. | Germany France | : | | * | |
| Oak, mixed | 1 | 1 | | | | | 1 | 3,850 | In service 5 yrs.—last | Pa. System |
| Oak, pin | 5 | 1 | | | | | 5 | 323 | report 3-5 yrs.—none out | C. B. & Q. |
| Oak, post | 1 | 1 | | | | | 1 | 50 | 2 yrs.—none out | Q. & C. |
| Oak, red | 17 | 9 | | | | | 1 1 1 6 1 2 3 1 1 | 3,789 872 405 82 102 582 7 | 4 yrs.—none out 5 yrs.—none out 4 yrs.—none out 3.6 yrs.—0-1.8% out 4 yrs.—9% out 3 yrs.—none out 5 yrs.—none out 6 yrs.—none out 9 yrs.—none out | St. L. &S. W. Pa. System B. & O. C. B. & Q. T. C. & I. Co. C. M. & St. P. I. C. & S. G. C. & S. F. Mex. Cent. |
| Oak, water | 1 | 1 | | | | | 1 | 50 | 2 yrs.—none out | C. S. |
| Oak, white | 4 | 2 | * :: | | | ::::::::::::::::::::::::::::::::::::::: | 3 1 | 40 200 | 2 yrs.—none out 4 yrs.—none out | C. B. & Q. St. L. & S. W. |

TABLE 3. EFFECTIVE DURABILITY RECORDS.—TIES TREATED WITH CREOSOTE BY FULL CELL AND BETHELL PROCESSES, ETC.—CONTINUED.

| | Total | Records | | C | ompleted Records | | | | Unfinished Records | |
|--------------------------|-------|---------|------|-------------------|---|-----------------------|-----------------------|------------------------------------|---|---|
| Species | 1 | | Nu | mber | | R. R. | Nun | nber | Results | R. R. |
| Decres | Rec. | R. R. | Rec. | Ties | Results | R. R. | Rec. | Ties | | |
| Pine | 18 | 7 | 1 | 6,000 | Avg. life 16 yrs. | NYNH&H | 1 | 16,000 | 1 yr.—none out | Fla. E. Coast |
| | 1- | | 1 1 | 150,000 15,000 | Avg. life 19 yrs. 18 yrs.—45-55% out Records lost | H. & T. C. L. & N. | 3 | 1,893 | 9.5 yrs.—none out 16 yrs.—72% out | Mex. Cent. L. & N. |
| | | | | | Records lost | | 9 | 5,401 183 | 3-8 yrs.—0-2% out 4 yrs.—17% out | G. H. & S. A. T. C. I. & R. R. Co. |
| Pine, Loblolly | 9 | 5 | | | | | 1 1 4 1 2 | 1,000 50 209 2,743 599 | 6 yrs.—none out 2 yrs.—none out 4-5 yrs.—none out 2 yrs.—none out 4 yrs.—none out | Ga. Rrd. Q. & C. C. B. & Q. Pa. Sys. St. L. & S. W. |
| Pine, Lodgepole | 1 | 1 | | | | | 1 | 39 | 8.5 yrs.—none out | С. В. & Q. |
| Pine, Longleaf | 3 | 2 | | | | | 1 2 | 250 600 | 23 yrs.—40% out 4 yrs.—none out | A. C. L. St. L. & S. W. |
| Pine, Shortleaf | 5 | 4 | 1 | 5,000 | Avg. life 15.5 yrs. | C.R.P&N.S. | 1 2 1 | 2,494 563 150,000 | 5 yrs.—none out 4 yrs.—none out 2 yrs.—none out | Pa. Sys. St. L. & S. W. H. & T. C. |
| Pine, Virginia | 2 | 2 | | | | | 1 1 | 10,000 10,000 | 8 yrs.—none out 4 yrs.—none out | C. R. R. of N. P. & R. |
| Pine, Yellow | 2 | - 1 | 2 | 20,000 | 7-9 yrs.—all out | D. L. & W. | | | , | |
| Pine, Southern Yellow | 2 | 1 | 1 | 6,000 | Avg. life 16.4 yrs. | NYNH&H | 1 | 500 | 9 yrs.—no results | NY,NH&H. |
| Poplar | 3 | 1 | | | | | 3 | 80 | 2 yrs.—none out | С. В. & Q. |
| Sycamore Tamarack | 3 5 | 1 | | | | | 3 5 | 90 225 | 2 yrs.—none out 3-5 yrs.—none out | 66 |

TABLE 4. EFFECTIVE DURABILITY RECORDS.—TIES TREATED BY THE OPEN-TANK CREOSOTE PROCESS.

| | Total | Records | | | Completed Records | | Uncompleted Records | | | | | |
|--------------|-------|---------|------|------|-------------------|-------|---------------------|------|--|----------------------------|--|--|
| Species | Rec. | R. R. | Nu | mber | Results | | Nur | mber | D. J. | D.D. | | |
| Species | Rec. | K. K. | Rec. | Ties | Results | R. R. | Rec. | Ties | Results | R. R. | | |
| Fir, Douglas | 1 | 1 | - | | | | 1 | 32 | 8.5 yrs.—no results given | C. B. & Q. | | |
| Hemlock | 1 | 1 | | | | | . 1 | 33 | 8.5 yrs.—none removed 66%—good, 33%—part- ly decayed | C. & N. W. | | |
| Tamarack | 1 | 1 | | | | | 1 | 19 | 7.5 yrs.—none removed | C. & N. W. | | |
| Oak, red | 2 | 2 | | | | | 2 | 14 | 6 yrs.—none removed 9 yrs.—none removed | G. C. & S. F Mex. Cent. | | |
| Pine | 1 | 1 | | | | | 1 | 29 | 9.5 yrs.—none removed | Mex. Cent | | |

Table 5. Effective Durability Records—Ties Treated with Straight Zinc Chloride.

| | Total | Records | | C | ompleted Records | | - | | Unfinished Records | |
|--------------|-------|---------|------|---------|-----------------------|---------------|-----------------------|---------------------------------|---|--|
| Species | 1 | D.D. | Nu | mber | Results | R. R. | Nu | mber | Results | R. R. |
| | Rec. | R. R. | Rec. | Ties · | Results | K. K. | Rec. | Tics | Results | |
| Ash | 2 | 1 | | | | | 2 | 31 | 4 yrs.—none out | С. В. & Q. |
| Beech | 6 | 3 | | | | | 4 | 314 | 4 yrs.—none out 5 yrs.—1-3% out | " |
| | | | | | | | 1 1 | 99 500 | 10 yrs.—7.6% out 4 yrs.—0.2% out | G. C. &. S. F. C. M. & St. F |
| Birch, Red | 3 | 1 | | | | | 3 | 103 | 4 yrs.—none out | C. B. & Q. |
| Chestnut | 1 | 1 | | | | | 1 | 21 | 3 yrs.—none out | C. M. & St. I |
| Cypress | 3 | 1 | | | | | 3 | 55 | 4 yrs.—none out | C. B. & Q. |
| Elm, White | 4 | 1 | | | | | 4 | 296 | 4 yrs.—none out 5 yrs.—2.6% out | " |
| Fir, Douglas | 23 | 3 | 8 | 161,719 | Avg. life 9-11.3 yrs. | S. P. | 6 2 1 | 267,420 749,908 197 91 | 6-11 yrs.—23-80% out 0-15 yrs.—0-7.4% out 8.3 yrs.—1-4% out 8.5 yrs.—3.2% out | S. P. " C. B. & Q. |
| Fir, Oregon | 1 | 1 | | | | | 1 | 5,414 | 5 yrs.—54% out | " |
| Gum, Red | 9 | 2 | | | | | 3 | 130 | 3 yrs.—none out 5 yrs.—7% out | |
| | | W. S. | 1 | | | | 6 | 244 | 9 yrs.—80-97% out | G. H. & S. A |
| Gum, Tupelo | 8 | 2 | 6 | 198 | Avg. life 7-8 yrs. | G. H. & S. A. | 2 | 117 | 5 yrs.—1.3% out | C. B. & Q. |
| Hackberry | 1 | 1 | | | | | 1 | 60 | 16 yrs.—75% out | " |
| Hemlock | 16 | 5 | | | | | 4 7 1 1 1 | 19,626 100 25 2,000 | 5 yrs.—0-1.4% out 6-9 yrs.—0-30% out 10 yrs.—30% out 7.5 yrs.—16% out 15 yrs.—25% out | Pa. Sys G. C. & S. F C. & N. W. C. R. I. & P. |

Table 5. Effective Durability Records.—Ties Treated with Straight Zinc Chloride.—Continued.

| | Total | Records | | | Completed Records | | | | Unfinished Records | |
|-----------------|-------|---------|------------------|---------------------|---|--|----------------------------|--|--|--|
| Species | D | R. R. | Nu | mber | Results | R. R. | N | umber | Results | R. R. |
| | Rec. | R. R. | Rec. | Ties | Results | K. K. | | | Acounts | |
| Hickory, pignut | 3 | 1 | | | | | 3 | 24 | 2 yrs.—none out | C. B. & Q. |
| Larch, Western | 2 | 1 | | | | | 2 | 193 | 7.3 yrs.—5% out | N. P. |
| Maple, hard | 3 | 1 | | | | | 3 | 65 | 2 yrs.—none out | C. B. & Q. |
| Maple, soft | 4 | 1 | | | | | 4 | 181 | 4 yrs.—none out 5 yrs.—3% out | 44 |
| Oak, black | 1 | 1 | 1 | 34 | Avg. life 8 yrs. | G. C. & S. F. | | | | |
| Oak, pin | 3 | 1 | | | | | 3 | 69 | 2 yrs.—none out | C. B. & Q. |
| Oak, red | 38 | 8 | 2 | | Avg. life 8.5-12 yrs. | I. C | 5 | 292 | 4 yrs.—none out | " |
| | | | 1 | 3,080 | Avg. life 10.7 yrs. | " | 2 | 1,100 | 5 yrs.—3% out 10 yrs.—none out | " |
| | | | 1 1 1 1 | 25 255,574 20 | 10 yrs.—100% out Avg. life 5-6 yrs. Estimated life 10 yrs. 7.5 yrs.—100% out | N. & S. Wabash. G. T. G. C. & S. F. | 1 4 9 1 5 2 | 35,120 68,330 591,526 135 538 7,384 | 14 yrs.—13% out 8 yrs.—5% out 3-4 yrs.—1% out 5-6 yrs.—0-4% out 8 yrs.—26% out 3-4 yrs.—none out 6 yrs.—0.13% out 7 yrs.—3% out | I. C. " Pa. Sys. C. M. & St. P. |
| | | | | | | | 2 | 88 | 10 yrs.—30% out | G. C. &. S. F. |
| Oak, Turkey | 1 | 1 | 1 | 20 | 7.5 yrs.—100% out | G. C. & S. F. | | | | |
| Oak, white | 5 | 1 | 1 | 100 | Avg. life 4.18 yrs. | | 1 3 | 101 40 | 10 yrs.—64% out 2 yrs.—none out | G. C. &. S. F. C. B. & Q. |
| Oak, willow | 1 | 1 | 1 | 20 | 7.5 yrs.—100% out | G. C. & S. F. | | | | |
| Pine | 9 | 3 | 3 | 225 | Avg. life 15-16 yrs. | N. & S. | 1 1 4 | 43 300 17,355 | 9.5 yrs.—none out 13 yrs.—none out 10-11 yrs.—35% removed | Mex. Cent. N. Y. N. H. & I A. T. & S. F. |

TABLE 5. EFFECTIVE DURABILITY RECORDS.—TIES TREATED WITH STRAIGHT ZINC CHLORIDE.—CONTINUED.

| | Total 1 | Records | | | Completed Records | | | | Unfinished Records | | |
|---------------------|---------|---------|-------|--------|---------------------|---------------|-------------|--------------|--|---------------------------------------|-------|
| Species | Rec. | R. R. | Nu | mber | Results | D D | Nı | ımber | Results | R. R. | |
| | Kec. | K. K. | R. R. | Rec. | Ties | Results | R. R. | Rec. | Ties | Results | R. R. |
| Pine, Black Hills | 1 | 1 | | | | | 1 | 6,359 | 14 yrs.—6% out | C. B. & Q. | |
| Pine, Loblolly | 6 | 2 | 1 | 100 | 9 yrs.—100% out | G. C. & S. F. | 5 4 | 1,370 293 | 3-4 yrs.—0.5% out 4 yrs.—none out | I. C. C. B. & Q. | |
| Pine, Lodgepole | 3 | 1 | 1 | 61 | Avg. life 8.7 yrrs. | C. B. & Q. | 2 | 2,059 | 5 yrs.—3-4% out 8 yrs.—4% out | C. B. & Q. | |
| Pine, Longleaf | 3 2 | 2 | 2 | 71 | 13 yrs.—100% out | NY,NH,&H. | 1 2 | 6 135 | 10 yrs.—17% out 13 yrsr.—10% out | G. C. &. S. F. NY,NH.&H. | |
| Pine, Mountain | 3 | 2 | : | :::::: | | | 1 1 | 10 305 | 10 yrs.—20% out 11 yrs.—7% out | G. C. &. S. F. A. T. & S. F. | |
| Pine, sap | 4 | 2 | 3 | 1,001 | Avg. life 5.5 yrs. | G. H. & S. A. | | | | | |
| Pine, Shortleaf | 1i 6 | .; | 6 | 92,206 | Avg. life 6-8 yrs. | S. P. | 3 2 | 107 1,000 | 10 yrs.—60% out 8-12 yrs.—10% out | G. C. &. S. F. C. M. & St. P | |
| Poplar | 3 | 1 | | | | | 3 | 80 | 2 yrs.—none out | C. B. & Q. | |
| Redwood, California | | | 1 | 8 | 3 yrs.—100% out | G. C. & S. F. | | | 4 yrs—5-10% out | | |
| Sycamore | | | | | | | 3 | 90 | 2 yrs.—none out | C. B. & Q. | |
| Tamarack · | | | | | | | 4 | 212 | 4 yrs.—none out | C. B. & Q. | |
| | | | : | :::::: | | | 1 1 4 | 2,580 388 | 5 yrs.—1% out 9 yrs.—none out 11 yrs.—2.2% out 7.5 yrs.—none out | G. C. &. S. F. G. N. C. & N. W. | |

TABLE 6. EFFECTIVE DURABILITY RECORDS.—TIES TREATED WITH COMBINATION OF CREOSOTE AND ZINC CHLORIDE.

| | Total | Records | | | Completed Rec | ords | 1 | Unfir | ished Records | |
|-----------------|-------|-----------|------|------|---------------|------|------|--------------|--------------------------------------|------------------------------|
| Species | | | Nui | mber | D. II | R R. | Nu | mber | Results | R. R. |
| | Rec. | ec. R. R. | Rec. | Ties | Results | R R. | Rec. | Ties | Accounts | |
| CARD PROCESS | 4 | 1 | | | | | 4 | 374 | 4-5 yrs.—none out | C. B. & Q. |
| Beech | 6 | 2 | | | | | 5 | 1257 | 3-4 yrs.—none out 5 yrs.—0.4% out | " |
| | | - | | | | | 1 | 344 | 3 yrs.—none out | C. M. & St. P. |
| Birch, Red | 4 | 1 | | | | , | 4 | 1069 | 4 yrs.—none out 5 yrs.—1% out | C. B. & Q. |
| Chestru | 2 | 1 | | | | | 2 | 254 | 5 yrs.—19% out | " |
| Cnestnut | 2 | 1 | - | | | | 2 | 446 | 5 yrs.—1 to 11% out | " |
| Cypress | 4 | 1 | | | | | 4 | 673 | 4-5 yrs.—none out | " |
| Elm, White | 6 | 1 | | | | | 6 | 1381 | 4 yrs.—none out 5-6 yrs.—0-3% out | " |
| Gum, red | 3 | 1 | | | | | 3 | 840 | 5-6 yrs.—1% out | " |
| Gum, Tupelo | 2 | 1 | | | | | 2 | 672 | 5 yrs.—1% out | " |
| Hackberry | 1 | 1 | | | | | 1 | 45 | 3 yrs.—none out | |
| Hemlock | 5 | 2 | | | | | 1 4 | 1000 1296 | 5 yrs.— " 4-5 yrs.— " | C. M. & St. P. C. B. & Q. |
| Hickory, pignut | 4 | 1 | | | | | 4 | 289 | 4 yrs.—none out 5 yrs.—1% out | " |

Table 6. Effective Durability Records.—Ties Treated With Combination of Creosote and Zinc Chloride.—Continued.

| | Total | Records | | | Completed R | ecords | | Unfinished Records | | | | | |
|----------------|-------|---------|------|------|-------------|--------|------|--------------------|--|----------------|--|--|--|
| Species | Rec. | R. R. | Nu | mber | Results | R. R. | N | umber | D 1 | | | | |
| A. A. A. | icc. | K. K. | Rec. | Ties | Results | K. K. | Rec. | Ties | Results | R. R. | | | |
| Maple | 3 | 1 | | | | | 2 | 100 596 | 3 yrs.—none out 6 yrs.—none out | C. M. & St. P. | | | |
| Maple, Hard | 6 | 2 | | | | | 5 | 1373 | 3-4 yrs.—none out | C. B. & Q. | | | |
| | | | | | | | 1 | 596 | 5 yrs.—0.5% out 7 yrs.—none out | C. M. & St. P. | | | |
| Maple, Soft | 4 | 1 | | | | | 4 | 721 | 4-5 yrs.—none out | C. B. & Q. | | | |
| Oak, Pin | 4 | 1 | | | | | 4 | 832 | 4-5 yrs.—none out | " | | | |
| Oak, Red | 7 | 2 | | | | | 6 | 1480 | 3-4 yrs.—none out 5-6 yrs.—1% out | " | | | |
| | | | | | | | 1 | 1237 | 4 yrs.—none out | В. & О. | | | |
| Oak, White | 5 | 1 | | | | | 5 | 765 | 4 yrs.—none out 5-6 yrs.—0 to 3% out | C. B. & Q. | | | |
| Pine, Loblolly | 5 | 1 | | | | | 5 | 1446 | 4-5 yrs.—0 to 8% out 6 yrs.—67% removed for rail-cutting | " | | | |
| Poplar | 4 | 1 | | | | | 4 | 624 | 4 yrs.—none out 5 yrs.—3-10% out | " | | | |
| Sycamore | 4 | 1 | | | | | 4 | 518 | 4 yrs.—none out 5 yrs.—1-3% out | " | | | |
| Tamarack | 6 | 2 | | | | | 5 1 | 1345 | 3-5 yrs.—none out | C. M. & St. P. | | | |

TABLE 6. EFFECTIVE DURABILITY RECORDS.—TIES TREATED WITH COMBINATION OF CREOSOTE AND ZINC CHLORIDE.—CONTINUED.

| | Tota | 1 Records | | | Completed Rec | cords | | | Unfinished Record | 3 |
|---------------------------|------|-----------|------|--------------------|---------------------|---------------|-------------|-----------------|---|---------------------|
| Species | _ | | Nun | nber | D 1 | n n | Nu | nber | Results | R. R. |
| | Rec. | R. R. | Rec. | Ties Results R. R. | Rec. | Ties | Results | K. K. | | |
| ALLARDYCE, etc. Beech | 1 | 1 | | | | | 1 | 50 | 9 yrs.—80% out | G. C. & S. F. |
| Fir, Douglas | 1 | 1 | | | | | 1 | 41 | 8.5 yrs.—5% out | C. B. & Q. |
| Gum, Sweet | 1 | 1 | 113 | | | | 1 | 10 | 10 yrs.—65% out | G. C. & S. F. |
| Hemlock | 1 | 1 | 2 | 99 | Avg. life 7 yrs. | G. C. & S. F. | | | | |
| Oak, Black | 1 | 1 | | | | | 1 | 50 | 10 yrs.—77% out | " |
| Oak, Spanish | 1 | 1 | | | | | 1 | 10 | 12 yrs.—50% out | " |
| Oak, Turkey | 1 | 1 | | | | | 1 | 10 | 10 yrs.—10% out | " |
| Oak, White Oak, Willow | 1 | 1 | | | | | 1 1 1 | 100 10 11 | 10 yrs.—71% out 9 yrs.—100% out 3.5 yrs.—100% out | ". G. C. & S. F. |
| Pine, Loblolly | 2 | 1 | 1 | | | | 2 | 101 | 9 yrs.—100% out | " |
| Pine, Lodgepole | 1 | 1 | | | | | 1 | 77 | 8.5 yrs.—3% out | C. B. & O. |
| Pine, Longleaf | 1 | 1 | | | | | 1 | 50 | 10 yrs.—14% out | G. C. & S. F. |
| Pine, Shortleaf | 1 | 1 | | | | | 1 | 50 | 10 yrs. 44% out | " |
| Tamarack | 2 | 1 | 1 | 50 | 9 yrs.—100% out | G. C. & S. F. | 1 | 51 | 7 yrs. 90% out | |
| Gum | 3 | 1 | | | | | 3 | 45 | 9 yrs.—25-57% out | G. H. & S. A. |
| Oak, Black | 1 | 1 | 1 | 76 | Avg. life 1.84 yrs. | G. C. & S. F. | | | | |
| Oak, Turkey | 1 | 1 | 1 | 10 | 3 yrs.—100% out | " | | | | |
| Pine | 7 | 2 | 4 | 1894 | Avg. life—14 yrs. | G. H. & S. A. | 3 | 980 | 5-7 yrs.—1% out | G. H. & S. A. |
| Pine, Sap | 3 | 1 | | | | | 3 | 1003 | 9 yrs.—6-52% out | " |
| Pine, Shortleaf | 1 | 1 | | | | | 1 | 50 | 4 yrs.—86% out | C. M. & St. P. |

TABLE 7. EFFECTIVE DURABILITY RECORDS.—TIES TREATED BY THE WELLHOUSE PROCESS.

| | Total 1 | Records | | | Completed Records | | | | Unfinished Records | |
|-------------------|---------|---------|-------|------------------|---|---|-------------------|----------------------------|--|--|
| Species | | | Nu | mber | D | R. R. | Num | iber | Results | R. R. |
| | Rec. | R. R. | Rec. | Ties | Results | K. K. | Rec. | Ties | Results | |
| Beech | 1 | 1 | | | | | 1 | 100 | 10 yrs.—none out | G. S. & S. F. |
| Cottonwood | 2 | 1 | | | | | 2 | 137 | 12 to 15 yrs.—66-89% out | C. B. & Q. |
| Cottonwood, White | 1 | 1 | | | | | 1 | 49 | 15 yrs.—84% out | |
| Gum | 4 | 1 | - 4 | 250 | Avg. life 12-16 yrs. | N. & S. | | | | |
| Gum, Sweet | 1 | 1 | | | | | 1 | 51 | 9 yrs.—80.5% out | A. T. & S. F. |
| Hemlock | 44 | 5 | 1 1 | 21,850 200 | Avg. life 11.8 yrs. " 10.7 " | C. R. I. & P. Pa. System | 1 1 1 39 | 200 1287 100 1535 | 7 yrs.—none out 8 yrs.—30% out 8 yrs.—21% out 7.5 yrs.—0-5% removed | Pa. System S. C. & S. R. I G. C. & S. F. C. & N. W. |
| Oak, Black | 2 | 1 | | | | | 2 | 119 | 10 yrs.—42% out | G. C. & S. F. |
| Oak, Red | 2 | 2 | 1 | 20 | 7 yrs.—100% out | G. C. & S. F. | 1 | 48 | 9 yrs.—40% out | A. T. & S. F. |
| Oak, Spanish | 1 | 1 | | | | | 1 | 20 | 10 yrs.—45% out | G. C. & S. F. |
| Oak, Turkey | 10 | 1 | | | | | 1 | 20 | 10 yrs.—90% out | " |
| Oak, White | 2 | 1 | | | | | 2 | 200 | 10 yrs.—23% out | " |
| Oak, Willow | 2 | 2 | 1 | 20 | 8 yrs.—100% out | G. C. & S. F. | 1 | 35 | 4 yrs.—20% out | T. C. & I. |
| Pine, Colorado | 5 | 1 | 1 | 50 | Avg. life 11.8 yrs. | A. T. & S. F. | 4 | 784 | 15.1 yrs.—37% out | A. T. & S. F. |
| Pine, Loblolly | 1 | 1 | | | | | 1 | 100 | 10 yrs.—95% out | G. C. & S. F. |
| Pine, Longleaf | 1 | 1 | | | | | 1 | 100 | 10 yrs.—55% out | " |
| Pine, Red Norway | 1 | 1 | 1 | 86 | Avg. life 15 yrs. | D. & I. R. | | | | |
| Pine, Shortleaf | 2 | 2 | | | | | 1 1 | 100 500 | 10 yrs.—80% out 11 yrs.—10% out | G. C. & S. F. C. M. & St. F |
| Pine, White | 1 | 1 | 1 | 85 | Avg. life 15 yrs. | D. & I. R. | | | | |
| Tamarack | 14 | 5 | 1 1 1 | 100 200 85 | 10 yrs.—100% out Avg. life 8.8 yrs. " " 15 yrs. | G. C. & S. F. Pa. System D. & I. R. | 10 | 200 738 | 7 yrs.—1% out 7.5 yrs.—1% out | F. W. & C. C. & N. W. |

| No. | Information Obtained from | Year | Vol- | Page | Authority |
|------|--|------|------|--------|--|
| 1.00 | Am Ry. Eng. Ass'n - Proceed. | 1909 | 10 | 619 | |
| 1.05 | Letter to Forest Service | 1914 | | | Stevens, F.S Eng. M. of W. P. + R. Ry. |
| 1.10 | Am. Ry. Eng. Ass'n - Proceed | 1911 | 12 | 360 | |
| 1.15 | Letter to Forest Service | 1914 | | 100 | Wood, W. B Gen. Mgr. Grand Ropids + Ind. Ry |
| 1.25 | 1. | 1914 | | | Clark, W.A Ch. Eng. D.+ I. R. Ry. |
| 1.26 | de | 1914 | | | Ray, G.J Ch. Eng. D.L. + W. Ry. |
| 1.30 | Am. Ry Eng. + M of W. Assin Proceed. | 1907 | 8 | 469 | |
| 1.41 | Letters to Forest Service | 1915 | 1 | 100 | bhaston, C.E. Ch Eng. Konsas City Southern Ry. |
| 1.76 | Letter to Forest Service | 1914 | | | Wilgus, H.S Eng M. of W. Pittsburg, S. + N. Ry. |
| .86 | do | 1914 | | | Murray, O.C Vice Pres. Wash. Terminal Ry. |
| 2.00 | Am. Soc. Civil Eng Transactions | 1899 | 42 | 303 | |
| 2.20 | do | 1901 | 45 | 548 | |
| 2.40 | do | 1885 | 14 | 155 to | |
| 5.00 | Am. Ry. Eng. Ass'n-Proceed. | 1912 | 13 | 872 | |
| 93 | also Appendix "B" | 1914 | | | |
| 3.10 | Am. Ry. Eng. Assin Proceed. | 1915 | 14 | 727 | |
| 4.00 | Letters to Forest Service | 1808 | 100 | | Stimson, Earl - Ch. Eng. M. of W. B. + O. Ry. |
| 110 | Letter to Forest Service | 1915 | | | Angier, F.J Supt Timber Preser. B.10 Ry. |
| 5.00 | Letters to Forest Service | 1914 | | | Waterman, J.H - Supt. Timber Preser. C. B. + Q. Ry |
| 6.00 | Letters to Forest Service | 1915 | 16 | 881 | Bush, D.L. Gen. Mgr. C. M. +St. P. Ry. |
| 5.10 | do | 1915 | | | Aboles, F.S Tie Agent C. M.+ St. P. Ry. |
| 7.00 | Report and blue prints | 1914 | | | Van Veck - Gen. Mgr. Sunset Line |
| | also Latter to Forest Service | 1915 | | | Cottingham, I.A. Asst. Gen. Mgr. G.H. TS. A.Ry. |
| 9.00 | Records - C. T.E.I. Ru. | 1910 | 1 | | Chicago Tie Preservation Co. |
| 9.00 | Report - Danish State + Private Rys. | 1910 | | | Collstrop, A. (Dec. 1904) |
| | Am. Ry. Engl. Ass'n - Proceed. | 1910 | 11 | 110 | (4.1.1.1.) |
| | Letters + Report to Forest Service | 1911 | | | Rex G.E Mgr. Treating Plants A.T.+S.F.Ry. |
| 2.00 | Letter to Forest Service | 1913 | | | Parks, W.L - Vice Pres Illinois Central Ry. |
| 2.10 | 40 | 1914 | | 8 | Parks, W.L. + Lemboke, G.A Illinois Central Ry. |
| 220 | Report of L. A. Downs, Asst th. Eng. Matw. | 1909 | | | to H.R. Safford - Ch. Eng. Mof W. I.C. + X. + M. Ry. |
| | Not Electric Light Assin Proceed. | 1910 | | 336 | and the same and t |
| | Letters to Forest Service | 1912 | | | Moon, O.C Gen. Mor. H.Y.C. Lines |

| Ref. No | Information Obtained from | Year | Vol- ume | Page | Authority |
|------------|---------------------------------------|-------|-------------|------|--|
| 15.00 | Letter to Forest Service | 1913 | | | Osgood, J. Q Ch. Eng. C. R.R. of N. J. |
| 16.00 | do | 1914 | | | Lamb, E.T Pres. Norfolk + Southern Ry. |
| 20.00 | do | 1912 | | 1.0 | Peck, G.L Gen. Mgs. Penn. Lines West |
| 20.10 | do | 1914 | | | Foley, John Forester Penn. Ry |
| 21.00 | Forest Service Project No 38 | | | 3 | |
| 22.00 | do Al | | | | |
| 25.00 | 10 42 | | | | |
| 24.00 | do . 44 | | | | |
| 25.00 | 4 50 | | | | |
| 26.00 | de 51 | N. I | | | |
| 27.00 | do 111 | | | | |
| 29.00 | Railway Gazette | 1900 | 52 | 25 | Schneidt - Officer in German Ry. |
| 29.20 | do | 1901 | 35 | 164 | Dudley, P.H. |
| 29.40 | Am. Ry. Eng + M. of W. Assin-Proceed. | 1905 | 6 | 760 | |
| 29.50 | Roilway Gozette | 1901 | 55 | 616 | Dudley, P.H. |
| 29.60 | do | 1895 | 27 | 667 | Schneidt, - Officer in German Ry. |
| 29.70 | Roilroad Gozetta | 1880 | | | Translation - (Pring Con. Funk, Cologne + Minden R.R.) |
| 30.00 | Letter to Forest Service. | 1912 | | | Mixon, W.C Ch. Opper. Officer S.L. + S.F. Ry. |
| | also Report to A.R.E.A. | 1914 | | | Hendricks, Y. K Asst. Ch Eng. S.L.+S.F. Ry. |
| 50.10 | | 1914 | | 1 | Britton, F. H. Pres. + Gen. Mgr. St. L. T.S. W. Ry. |
| 31.00 | | 1898 | | 225 | Willis, D.D. |
| 52.00 | Letter to Forest Service | 1914 | | | Calin, E.E + Scott, W.R Assit. Gen. Hgr. S.P. Ry. |
| | do | 1914 | | | Ware, chas Gen. Mgr. U.P. Ry. |
| 13.00 | Am Wood Preservers Assin. | 1911 | 1 | 123 | Angier, F.J Sopt. Timber Preser. B. +O. Ry. |
| 3.10 | Letter to Forest Service | 1910 | | | Clark, W.A Ch. Eng. D. + I.R. Ry. |
| 17.00 | do | 1914 | | | Bollentyne, C.G Mgr. Barret Mfg. Co. |
| 18.00 | do | 1914 | | | Backes, N.J Eng. M. of W. N.Y. N. H. + H Ry. |
| 59.00 | do | 1914 | | | Honolulu Rapid Transit Co. |
| 90.00 | do | 1914 | | | Davis, J. R. W Eng. MotW. Great Northem Ry |
| | Forest Service Project No. 126 | 10.00 | 3 | | |
| | Letter to Forest Service | 1914 | | | Wood, B. ACh. Eng. M. of W. M. to. Ry. |
| 13.00 | do | 1914 | | | Crawford, C. 6 Mgr. Am Creosoting Co. |
| 4.00 | 1 # 1 5 + 0 | 1915 | | | Bosline, P.E Treating Insp. 1915 |
| 3.00 | Letter to Forest Service | 1915 | | | Plex. G.E Mgr. Treating Pleats Alssis |

| PRESERVATIVE | PROCESS | SPECIES | Tabl. Ha |
|--|-----------|-----------------------|-------------|
| Asphalt, Timber | | Oak, Red | 20 |
| Barium Chloride, Copper + Zinc Sulphate | Thilmany | Pine, White | 25 |
| Carbolineum | | Fir, Oregon | 9 |
| de | | Pine | 23 |
| de Avenarius | | Cedar | 1 |
| 4 4 | | Cypress | 2 |
| 4 4 | | Pine | 23 |
| 4 | | Redwood, Colifornia | 22 |
| Copper Sulphate | | Pins | 23 |
| 4 | Boiled | Fir | 9 |
| 4 | Boucherie | Poplar | 26 |
| 1 | Pressure | Fir | 9 |
| 4 | Steeped | Fir | 9 |
| 4 | de | Pine | 23 |
| 4 | Thilmany | Various | 30 |
| Copper + Iran Sulphate | Boucherie | Pine, Sap | 25 |
| Comme 2 Sulphote Barries Chloride | Thilmany | Ana, White | 25 |
| Copper + Zine Sulphata, Barrier Chlorida | Innang | Rine, Southern Yellow | 25 |
| Creasate | | Beech | 2 |
| 4 | | Cupress | 1 7 |
| | | Fir | 9 |
| 1 | | Fir Oregan | 9 |
| 1 | | Gum | 10 |
| | | Hemlook | 12 |
| 1 | | Oak | 18 |
| 4 | | Oak Mixed | 18 |
| 4 | | Oak Post | 19 |
| 4 | | Oak Red | 20 |
| 4 | | Oak White | 22 |
| 4 | | Pine Ninus | 23 |
| 4 | | Pine, Lablally | 24 |
| 4 | | Pine, Longleaf | |
| 1 | | Pina, Shortlest | 2.5 |
| 4 | | Pine, Southern Yellow | 25 |
| 4 | | Pine, Yellow | 10000 |
| 4 | | Various | 2.5 |
| | Bethel | Gum Red | 30 |
| , | Deinei | Ook | 10 |
| 1 | Full Call | Ash | 18 |
| | Full Cell | | 1 |
| - | 4 | Beech | 2 |
| | 4 | Birch, Red | 3 |
| 4 | 4 | Chestnut | 5 |
| 4 | 4 | Cottonwood | 6 |

| PRESERVATIVE | PROCESS | SPECIES | Tob |
|--------------|----------------------------------|----------------------------|-----|
| Creasate | Full Cell | Cupress | 2 |
| 4 | 4 | Elm, White | 8 |
| 4. | 6. | Fir, Red | 19 |
| 4 | 4 | Fir, Dauglas | 9 |
| 4 | 4 | Gum, Red | 10 |
| 4 | 6 | Gum, Tupelo | 11 |
| 4 | 1 | Hemlock . | 12 |
| 4 | 1 | Hickory , Pignut | /3 |
| 4 | 4 | Vuniper | 14 |
| 4 | 1 | Maple | 15 |
| , | 4 | Marie Hand | 10 |
| de | 4 | Maple, Hard Maple, Soft | |
| 4. | | Mople, Sort | 12 |
| 4 | - 4 | Oak, Pin | 19 |
| de | - 6 | Oak, Red | 20 |
| 4 | 4 | Oak, Water | 2 |
| do | do | Pine | 2. |
| de | 4 | Pine, Heart | 2 |
| do | 4 | Pine, Lablolly | 24 |
| do | 4 | Poplar | 2 |
| 4 | 6 | Poplar | 2 |
| 4 | 6 | Redwood, Baltic | 2 |
| 4 | 4 | Spruce | 2 |
| 4 | 6 | Sycamore | 2 |
| 4 | . 6 | Tamarack | 2 |
| 4 | Giussani | Gum, Red | 1 |
| × . | 1 | Oak, Red | 20 |
| do | 4 | Pine | 2 |
| 4 | Hauford | Pine, Virginia | 2 |
| de | Live Steam in Super beated Coile | The, right | 100 |
| 4 | Super heated Coils | Bum, Red Beech | 10 |
| | Lowry | Chestnut . | - |
| de | - | Chestnut . | 1 |
| 4 | de | 6um | 11 |
| A | 4 | Oak | 10 |
| 16 | 6 | Pine | 2 |
| do | 4 | Pine, Ladgepale | 2 |
| 6 | LOW Prassure | Chestnut | 0 |
| 4 | 4 | Oak, Red | 20 |
| 4 | 4 | Pine | 2. |
| 4 | No Steaming | Gum, Red | 10 |
| 4 | Open Tank | Fir, Douglas | 9 |
| 6 | 1 | Hamlook | 12 |
| 4 | 4 | Tamarack | |
| ds | Rusping | Ash | 35 |
| | auching | non_ | |

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|---|---|---|----|
| Ł | 2 | ú | j |
| ٠ | | r | ۹ |
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| PRESERVATIVE | PROCESS | SPECIES | TOBA |
|--------------------------------------|--------------|-----------------------|------|
| Creasate | Rusping | Beech | 2 |
| 4 | 4 | Fir, Douglas | 9 |
| 4 | 4 | Fir. Red | 9 |
| 4 | 2 | Gum | 10 |
| 4 | 7 | Gum. Red | 10 |
| 4 | - | Maple | 15 |
| 4 | 1 | Oak Red | 20 |
| 2 | 4 | Pine | 23 |
| 4 | 4 | Pine, Lablolly | 24 |
| | 6 | Ane, Lodge pole | 25 |
| 4 | 6 | Pine, Shortleaf | 25 |
| 4 | Seeley | Hemlock | 12 |
| 4 | steaming | Pine, Shortleaf | 25 |
| . / | Steaming | Ane, Shortleaf | |
| & Coal Tar | _ | Chestnut | 25 |
| | _ | | 5 |
| - d | _ | Gum | 10 |
| 4 4 | | Oak, Pin | 19 |
| 4 6 | | Oak, Red | 20 |
| do do | | Ook, White | 22 |
| do de | _ | Pine, Bull | 25 |
| | | Pins, Gargia Yellow | 25 |
| . 4 | | Ane Pitch | 25 |
| 6 6 | 7 | Poplar | 26 |
| A | Brush . | Oak, White | 22 |
| 4 4 | 4 | Ane, Georgia Vellow | 25 |
| 6 4 | Dipped | Chestnut | 5 |
| do do | 4 | Oak, Chestaut | 18 |
| A 6 | de | Oak, Red | 20 |
| 6 6 | 46 | Ost, White | 22 |
| to and Crude Oil | _ | Beech | 2 |
| de de | | Oak, Red | 20 |
| de and Crude Asphattic Oil | | Oak, Red | 20 |
| Creasate, Cool Tax and Crea Resinate | | Pine, Southern Yellow | 25 |
| Cresol Coloium | | Pine, Shortleaf | 25 |
| 4 | Low Pressure | Pine | 23 |
| 4 | No Steaming | Elm | 8 |
| 4 | de | Maple | 15 |
| Diamond Glue Preservative | | Pine | 23 |
| Diamond Wood Preserves | | Gum. Red | 10 |
| 4 | _ | Ook, Red | 20 |
| 6 | | Pine, Sap | 25 |
| Liquid, J.M. Long's | | Beech | 2 |
| 4 | | Oak, Red | 20 |
| - | | Juan, Fied | 1-0 |

| PRESERVATIVE | PROCESS | SPECIES | Table No |
|--|--------------|----------------------------------|-------------|
| Liquid, cl. M. Long's | | Ane Loblally | 24 |
| Mercario Chloride | Kyan | Hamlook | 12 |
| do | 6 | Oak | 18 |
| de | do | Pine | 25 |
| 4 | 4 | Spruce | 27 |
| de | 4 | Various | 1.30 |
| 4 | Pressure | Various | 30 |
| Oil + Zina Chlacide | 1,12007 | Ane, Langleaf | 2.5 |
| Oil. Bakes field | | Pine, Lablally | 24 |
| | | Pine, Mountain | 25 |
| de | | Pina Shortleef | 25 |
| do + Zinc Chlorida | Burnett | Ane Mountain | 25 |
| | Durnell | Pine, Loblolly | 24 |
| Oil, Beaumont | | Pine, Long last | 25 |
| do | - | | 24 |
| do + Zine Chloride | | Pine Lablally Redwood California | |
| ail, California + do | - | | 27 |
| Oil, Crude | | Beech | 2 |
| de | | Cypress | 7 |
| 4 | | Elm, White | 8 |
| 4 | | Maple, Soft | 17 |
| 4 | | Oak, Red | 20 |
| 4 | | Various | 30 |
| 6 | Boiled | Gum | 10 |
| & + Zinc | | Hemlack | 12 |
| 4 4 | | Tamaraok | 29 |
| Oil. Crude Asphaltic | | Oak Red | 20 |
| Oil Fuel | Low Pressure | Chestnut | 5 |
| do | de | Oak Red | 20 |
| Oil, Semi - refined | Full Cell | Manle | 15 |
| J. | do | Oak Red | 20 |
| Salts, Barschall | Hasselmann | Beech | 2 |
| de de la | A A | Fir | 9 |
| , | 6 | Hemlack | 12 |
| 4 | do | Oak Black | 18 |
| | de | Oak S.J | 20 |
| - An | 4 | Oak Red | |
| 16 | | | 21 |
| | 16 | Oak, Turkey | 21 |
| de | 16 | Oak, White | 22 |
| | 16 | Oak, Willow | 22 |
| | - | Pine | 25 |
| 4 | * | Pine, Loblolly | 24 |
| 4 | de | Pine, Langleaf | 25 |
| 4 | 6 | Ane, shortleaf | 25 |

| PRESERVATIVE | PROCESS | SPECIES | Table No. |
|--|------------|------------------------------------|--------------|
| Saits, Barschall Saits, Great Sait Lake | Hasselmann | Tamarack | 29 |
| Soit Great Soft Lake | Sooked | Fir, Oregan | 9 |
| Spiritting | Courtes | Pine, Loblolly | 24 |
| Spiriting | | Qui landlas | 25 |
| do | | Pine, Longleaf Various | 30 |
| Tar | | Pine, Yallow | 25 |
| Teredo Proof Paint | | Tine, Tallow | |
| Timber Asphalt | | Oak, Red | 20 |
| Unknown | _ | Cedar | 4 |
| de | _ | Fir | 9 |
| de | | Gum, Red | 10 |
| 4 | | Ook, Black | 18 |
| 4 | | Various | 30 |
| Untreated | | Ash | 1 |
| but traited | | Beech | 2 |
| 4 | | Birch, Red | 3 |
| | | Cedar | 4 |
| de | _ | Chastnut | 3 |
| 4 | _ | Cottonwood | 6 |
| de | | | |
| * | | Cypress | 7 |
| 4 | _ | Cypress, Red | |
| 4 | | Cypress , Yellow | 2 |
| 4 | | Elm, White | 8 |
| d | | Fir | 9 |
| 4 | | Fir, Douglas | 9 |
| de | | Fir, Oregon | 9 |
| 4 | | Gum, Red | 10 |
| | | Gum, Tupelo | 11 |
| di | | Hemlock | 12 |
| 4 | | Hemlack, Western | 12 |
| d | | Hickory, Pignut | 13 |
| 4 | | nickery, right | 14 |
| d | | Junipar | |
| de | _ | Larch, Western | 14 |
| 4 | | Maple | 10 |
| 6 | | Maple, Hard, | 10 |
| 4 | | Maple, Soft | 12 |
| 4 | | Ook | 14 |
| 4 | | Oak, Black | 111 |
| 4 | | Ook, Chestnut | 1/2 |
| | | Oak Danish | 1/2 |
| 40 | | Oak Mississippi White | 2 |
| de | | Oak Pin | 17 |
| 4 | | Oak Post | 1 |
| 4 | | Oak Fost | 2 |
| 4 | | Oak, Red | |
| de | | Oak, Spanish | 2 |
| 4 | | Oak Swedish Oak Tennessee White | 2 |
| de | | Uak, Tennessee White | 2 |
| 4 | | Ook Turkey | 2 |
| 4 | | Oak, White | 2 |
| de | | Oak, Willow | 2 |
| . 4 | | Pine | 2 |
| 4 | | Pine, Baltic | 2. |
| | | Chia. | 122 |
| da | | , | 1- |

| Preservative | Process | Species | Toble No. |
|---|-----------------|-------------------------------------|--------------|
| Untreated | | Pine, Dantzie | 23 |
| do do | | Pine, Heart | 23 |
| do | | Pine. Loblolly | 24 |
| do | | Pine Lodge pole | 25 |
| 4 | | Pine, Longleaf | 25 |
| 2 | | Pine. Riga | 25 |
| do | | Pine, Shortleaf | 25 |
| de | | Pine Swedish | 25 |
| 4 | | Pine. Western Yellow | 25 |
| 4 | | Pine. White | 25 |
| 2 | | Pine, Yellow Poplar | 25 |
| 6 | | Poplar | 26 |
| 4 | | Spruce | 27 |
| do | | Sycamore | 28 |
| do | | Tamarack | 29 |
| Various | | Fir | 9 |
| 4.7 A 1.7 A | | Pine | 25 |
| Vulcanized | | Gum | 10 |
| | | Pine | 23 |
| 4 | Heat & Pressure | Various | 30 |
| w. 1.1. | Dipped | Pine, Longleaf | 25 |
| Woodiline | Painted | Pine, Longleaf | 25 |
| Zinc + Crude Oil | rainiea | Hemlock | 12 |
| | | Tomarack | 29 |
| Zinc Chloride | | Ash | 1 |
| | | Beech | 2 |
| do | | Fir | 9 |
| do | | Fir, Oregon | 9 |
| do | | Oak | 18 |
| do | | Pine, Blackhills | 23 |
| do | - | Pine, Loblolly | 24 |
| do | | Redwood, Baltic | 27 |
| de | Boiled | Fir. Douglas | 9 |
| de | | Fir, Grand | 9 |
| do . | do | Ook, Red | 20 |
| 6 | . % | | 23 |
| do | 1 % | Pine, Lodge pole Pine, Longle of | 25 |
| do | | Pine, Shortleaf | 23 |
| do | 80 | Beech | 20 |
| do | Burnott | Birch | 3 |
| 4 | do | Chestnut | 3 |
| 4 | do | Cypress | 7 |
| do do | do | Elm willite | 8 |
| do | do | Elm, White | 10 |

| PRESERVATIVE | PROCESS | SPECIES | Tab |
|----------------------|----------|----------------------|-----|
| Zinc Chloride | Burnett | Fir | 9 |
| 4 | 4 | Fir. Douglas | 9 |
| d | 4 | Fir Oregon | 9 |
| d | 4 | Fir. Red | 9 |
| d | 4 | Gum | 10 |
| de | | | |
| | 4 | Gum, Red | 14 |
| de | 4 | Gum, Tupalo | 14 |
| de | 4 | Hackberry | 11 |
| d | 4 | Hemlack | 12 |
| de | 4 | Hickory, Pignut | 13 |
| de | de | Larch, Western | 14 |
| 4 | 4 | Maple, Hard | 10 |
| do | 4 | Maple Soft | 12 |
| d | 4 | Oak | 11 |
| d | 4 | Oak Black | 1 |
| de | 4 | Oak Pin | 19 |
| de | 4 | Oak Red | |
| 4 | | Oak Turkey | 2 |
| | de | | 2 |
| 4 | 6 | Ook, Water | 2 |
| d | 4 | ook White | 12 |
| | 6 | Obk, Willow | 12 |
| do | 6 | Pine | 2 |
| de | 6 | Pine Loblolly | 2 |
| 4 | 6 | Pine, Ladge pale | 2 |
| 6 | 4 | Pine, Longleaf | 2 |
| 4 | 4 | Pine, Mountain | 2 |
| 4 | 6 | Pine, Sap. | 2 |
| 4 | 4 | Pine, Shortleaf | 2 |
| 4 | 4 | Paplar | 2 |
| 4 | | | |
| | 4 | Red wood, California | 2 |
| de | 1 | Spruce | 2 |
| 4 | 4 | Sycamore | 20 |
| 4 | d | Tamarack | 2 |
| de | do | Various | 30 |
| 4 | Pressure | Larch | 14 |
| 4 | Pressure | Beech | |
| 4 | Steeping | Pine | 2 |
| Zinc Chloride + Oil | | Pine, Langleaf | 2 |
| de + Bakersfield Oil | Burnett | Pine, Mountain | 2 |
| de 4 Beaumont Oil | Domen | Pine, Loblo lla | 2 |
| de + California Oil | | Redwood California | |
| Zina Creasote | | Gum | 2 |
| | - | | A |
| 4 | | Gum. Red | 10 |

| Preservative | Process | Species | Table No. |
|---------------|-----------|------------------------|--------------|
| Zinc Creosote | | Oak | 18 |
| do | | Oak, Black | 18 |
| do | - | Ook, Turkey | 21 |
| do | _ | Pine | 23 |
| 10 | | Pine, Sap | 25 |
| do | _ | Pine, Shortleaf | 25 |
| do | : | Various | 30 |
| do | Allardyce | Beech | 2 |
| do | do | Gum, Sweet | 10 |
| do | do | Fir, Douglas | 9 |
| do | do | Fir, Red | 9 |
| do | do | Hemlock, | 12 |
| do | do | Oak, Black | 18 |
| do | do | Oak, Spanish | 21 |
| do | do | Ook, Turkey | 21 |
| do | do | Ook, White | 22 |
| | do | Ook, Willow | 22 |
| do | do | Pine, Loblolly | .24 |
| | do | Pine, Lodge pole | 25 |
| do | do | Pine, Longleaf | 25 |
| | do | Ane, Shortleaf | 25 |
| do | De 1 | Tamarack | 29 |
| 4 | Beaumont | Oak, White | 22 |
| do | de | Pine, Longleof | 25 |
| do | Card | Ash Beech | |
| 10 | do | Beech P. J | 2 |
| do | do | Birch, Red Chestnut | 3 |
| do | do | Cottonwood | 6 |
| do | do | Cypress | |
| do | 6 | Elm, Whate | 8 |
| do | 2 | Gum, Red | 10 |
| do | 4 | Gum, Tupelo | 11 |
| 1, | do | Hack berry | 11 |
| do | do | Hemlock | 12 |
| do | do | Hickory, Pignut | 13 |
| do | do | Maple Maple | 15 |
| do | do | Maole, Hard | 16 |
| de | do | Maple, Soft | 17 |
| do | do | Oak Pin | 19 |
| de | do | Out Red | 20 |
| 6 | do | Oak, White | 22 |
| do | 1. | Pine, Loblolly | 1 22 |

| Proservative | Process | Species | To No |
|-------------------------------------|---------------|-------------------------|-------|
| Zinc Creosote | Cord | Poplar | 26 |
| do | do. | Sycamore | 28 |
| de | 1. | Tamarack | 29 |
| do | Giussani | Pine | 23 |
| do | LOW Pressure | Oak, Red | 20 |
| 4 | Rutgers | Beech | 12 |
| do | Two Movement | Maple . | 15 |
| Zine & Copper Sulphote, Bariom Chlo | ride Thilmony | Pine, White | 25 |
| Zine Tannin | Wellhouse | Ash | 1 |
| do | do | Beech | 2 |
| de | de | Cadar | 4 |
| do | do | Cottonwood | 6 |
| 6 | do | Cottonwood, White | 6 |
| | do | Fir | 9 |
| 6 | 46 | Gum . | 10 |
| do | do | Gum, Sweet | 10 |
| do | do | Hemlock | 12 |
| de | de | Maple, | 15 |
| 6 | 6 | Oak, Black | 18 |
| 6 | 6 | Oak, Red | 20 |
| 10 | do | Oak Spanish | 2/ |
| 6 | do | Oak Turkey | 21 |
| 7. | do | Oak White | 22 |
| 10 | do | Oak, Willow | 22 |
| 4 | do | Pine, Colorado | 23 |
| 4 | 4 | Pine, Loblolly | 24 |
| 4 | 4 | Pine, Longleaf | 25 |
| 6 | do | Pine, Mountain | 23 |
| do | 16 | Pine, Red Norway | 23 |
| do | · do | Pine, Sap | 25 |
| 10 | 10 | Pine, Shortleaf | . 25 |
| 6 | 6 | Pine White | 23 |
| - do | 4 | Pine, White Tomorack | 29 |
| | | | 30 |
| 6 | 2 | Various | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 18 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------|------------|---------|-----------------|--------------------------------|--------------------------|------------|--------|--|-------------------|---------------------------|---------------|----------|--------|-------------------------|---------|----------------------|--------------------------------|------------|------------------------|------|----------------------|--------------------------|------|
| | 0 | ESCRIP | TION OF M | ATERIA | 4 | | | | SE | RVICE CON | DITIONS | 5 | | | | | | RES | ULTS | | | | REE |
| MBER | DIMENSIONS | FORM | PREPARATION | NUMBER OF PIECES IN TEST | AVG. ABS | #/au.FT. | DATE | LOCALITY | COMPANY | BALLAST | DRAIN- AGE | RAIL | SPIKES | TIE PLATES | TRAFFIC | DATE REPOR TED | TIME OF SERVICE YEARS | % RIMOV | CAUSE OF REMOVAL | CON | AVG LIFE YEARS | REMARKS | NUMB |
| | | | | | To the same | | | | | TABLE | 1-1 | 95H | | | | | | | | | | | |
| CRE | OSOTE - A | ULL C | FII | | | | | | | | | 1 | 1000 | | | | | - | | | | | |
| 1.1 | | | | 19 | - | 9.62 | 1910 | Lines East | C.B.+ Q. | Sheridan | | 90 | _ | All | | 1914 | 4 | 0 | | _ | _ | | 5.0 |
| 1.2 | | _ | - | 1 | _ | 9.62 | 1909 | Lines West | do | Burnt Clay and Cinders | - | 85 | - | Yes | - | do | 5 | 0 | - | - | - | - | 5.0 |
| 1.3 . | | - | | 15 | - | 9.62 | 1910 | do | do | Lyons Stone | Very Dry | 90 | - | do | - | do | 4 | 0 | - | - | - | - | 5.0 |
| | SOTE - AUE | PING | and the same | | | | 1 | | | | | | | | 1 3 | | | 1 | | | | and the same of the same | 1 |
| 2.1 | - | - | Well Seasoned | 274 | - | 5.00 | 1909 | Fulton. Ky | · /. C. | Gravel | - | 90 | - | Economy | - | 1913 | 4 | 0 | - | Good | | Continuous ongle bors | 12.0 |
| 2.2 | | | do | 274 | | 5.00 | 1910 | Greenville, Mis. | do | Dirt | | 75 | | do | | do | 3 | 0 | | do | | Weber Joints | 12.0 |
| - | EATED | | | - | | | 1909 | diam cont | C. 8. 70. | Cinders Frant | | 75-85 | | Yes | | 1914 | 5 | 76 | not | | | | 5.0 |
| 3.1 | | | | 54 | | 100 | 1910 | Lines East | do | Burnt Cley | 1 | 90 | | All | | do | 4 | 13.8 | do | | | | 5.0 |
| 3.3 | | - | | 30 | | | 1909 | Lines West | do | Conders Gravel | | 75-85 | | Yes | | do | 5 | 76.7 | do | _ | | | 5.0 |
| 3.4 | - | | | 15 | | | 1910 | do | do | Lyons Stone | 1 | 90 | | do | 7.55 | do | 4 | 20.0 | do | 100 | | 50% show ohecking | 5.0 |
| 7000 | CHLORIO | E | | | | | | | | | | 1 | | | | 131 | 1 | 710 | | | | | No. |
| 4.1 | | _ | - | 16 | - | 0.5 | 1910 | Lines East | C. B.+Q. | Grave/ | - | 90 | - | All | - | 1914 | 4 | 0 | _ | - | - | | 5.0 |
| 42 | - | - | Seasoned - lyr. | 15 | - | 0.5 | 1910 | Lines West | do | Lyons Stone | - | 90 | - | Yes | - | do | 4 | 0 | - | - | - | - | 5.0 |
| 4.5 | - | - | Seasoned | 275 | - | 0.5 | 1909 | Honkokes, 411. | 1.0 | Old Rock | - | 90 | - | 1 Treplated | - | 1913 | 4 | 0 | - | Good | - | Continuous angle bars | 12.0 |
| 4.4 | - | - | do | 274 | - | 0.5 | 23660 | Blooming ton Il. | do | Old Gravel | - | 75 | - | Sellers | - | do | 3 | 0 | _ | do | - | Weber Joints | 12. |
| 4.5 | | - | da | 274 | - | 0.5 | | Fulton, Ky | de | do | - | 90 | - | 2 Trepleted Economy | - | do | 4 | 0 | _ | do | | Continuous angle bors | 12.0 |
| 4.6 | | | do | 274 | | 0.5 | 1910 | The control of the co | do | New Gravel | 1 | 75 | - | Sellers | 0 | do | 5 | 0 | - | | | 40" angle bars | 12.0 |
| 47 | | | do | 274 | - | 0.5 | 1910 | Greenville, Miss. | do | Dirt | 100 | 75 | | \$ Treplated Economy | - | do | 3 | 1.0 | Broken | Good | | Weber Joints 15% decayed | 12.0 |
| 5.1 1 | CREOSOT | E - CAN | 1 | 148 | | as zine | 1909 | Lines East | C. B.+Q. | Conders Grave | - | 25-85 | 1 | Portly | | 1914 | 5 | 0 | | | 9 | | 5.0 |
| 5.2 | | | | 123 | | 30 Cressot | 1910 | do | de | Burnt Clay Grave/ | | 90 | | de | | do | 4 | 0 | | | | | 5.0 |
| 5.3 | | _ | | 88 | | do | 1909 | Lines West | do | Onders Granel | | 75-85 | _ | Yes | _ | do | 5 | 0 | | _ | - | | 5.0 |
| 5.4 | _ | _ | | 15 | _ | do | 1910 | do | 10 | Lyons Stone | - | 90 de | _ | do | _ | 10 | 4 | 0 | _ | - | _ | | 5.0 |
| ZINC | TANNIN - | WELLH | OUSE | 1000 | | | | | | 10000 | | | | , | | | | | | | | | |
| 6.1 | - | - | _ | - | - | - | 1886 | Santo Fe, M.M. | U.P. | TABLE | - 2- | BEE: | CH | - | - | 185-8 | 9-12 | 100 | - | - | - | Began to fail in 1893 | 2.0 |
| CRE | OSOTE | | 193 | | | | | | 19.1 | | | | | | | - | 107 | | | | | | |
| 1.1 | - | - | _ | 1000-3000 | Decree of the control of | - | 1885-6 | Prussia | Imperial Ri | - | Poor | - | - | - | - | 1895-6 | 10 | 63 | Decay | - | - | | 29. |
| 1.2 | | _ | - | do | de | - | - | do | de | - | 600d | - | - | - | - | 16 | 10 | 0 | _ | - | - | | 4 |
| 1.3 | 64×10×8-10 | | _ | 4000 | | - | - | Germany | do | - | - | - | _ | - | - | - | - | - | | | - | Name of the | 1.5 |
| 1.4 | do | | | _ | 66.0 | - | | do | Union Ry | | | - | | | | 1896 | - | - | 200 | | | | 13.0 |
| 1.5 | | | | | 79.2 | | 1855 | do | Cologne Hinden | | | | | | | 1880 | 20 | 46.9 | | | | | 29. |
| 1.6 | | | | 2/440 | _ | | - | France | H.Aden | | _ | | _ | | | 1895 | _ | _ | _ | | | | 10. |
| 1.8 | 1 | | | | _ | 6.8 | 1907 | | CR.IAP. | _ | _ | _ | _ | | _ | 1908 | , | _ | _ | _ | _ | | 1.00 |
| 19 | | _ | | | _ | _ | | Germony | German R.A | _ | _ | _ | _ | - | - | _ | _ | _ | | _ | 30 | | 2.0 |
| | OSOTE- | FULL C | ELL | | | | | | | | | 1 | | | | | | 4.1 | | | 119 | | |
| 2.1 | - | _ | _ | 206 | _ | 11.12 | 1909 | Lines East | C. B.+9 | Gunders grave | - | 75.85 | - | Partly | _ | 1914 | 5 | 0 | _ | - | - | | 5.0 |
| 2.2 | - | - | _ | 99 | - | 1 | 1909 | unes West | 14 | Conders grave | - | 90 | - | 4. | - | 1 | 5 | 0 | - | - | - | | de |
| 2.5 | = | = | = | 119 | = | 1 % | 1910 | 2 | de | Lyon's Stone | = | 90 | = | Yes | = | 1. | 4 | 0 | = | = | = | | 1. % |
| 2.4 | W - Includ | les Bee | ch, Elm, Gun | r Chesto | ut + Man | 10 | | 175 W per 5 | | | | | | | | | | _ | | | _ | | 1 |

| 1 | 2 | 7 | a | • | 6 | 7 | B | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 1 |
|-------|------------------|---------|--------------------|--|-----------|----------|---------|---------------------------|---|---|---------|--------|--------|---|---------------------------|--------|-------|--------|------|------|--------|--|-------|
| 2.5 | 7'x 9"x8-6 | Samed | Sessined | 250 | 2.560/ | 0675 Gal | 1911 | Windsoroho | | Bravel | 6000 | 90 | Cut | 5 20 10 10 10 10 | Heary | 1915 | 4 | 0 | - | - | - | Includes Gum | 3.00 |
| 2.6 | de | | Shamed | 255 | - | - | 1908 | Bronton N.J. | D. L. T W. | Stone | de | 101 | 100 | Make pler | A CONTRACTOR OF THE PARTY | de | 7 | - | - | - | 7 | Includes Birch + Maple | 44 |
| 1.5 | 5.1 . 10.2 . 5.5 | - | Seasoned-6 Me. | 356650 | 59-66 | - | - | France | Eostemly | - | - | Reils | serews | Roplar | - | - | - | - | - | - | 25-30 | Wear | 2. |
| | CREOSOTE - | LOWRY | | | | | | | | | | | | | | | | | | | | | |
| 5./ | | _ | - | 6288 | 2.5 Gal. | - | 1910 | Buffolo, NY. | M.Y.C | Stone + Gravel | - | 00+100 | Cut | 17% Mated | Heavy | 1912 | 2 | 0 | - | - | - | Tie plates with flange through middle | 19 |
| 3.2 | | _ | _ | 7488 | do | _ | 1. | Eric, Pa. | 4 | Cinders | _ | 80 | 1. | None | de | 1 | 10 | 0 | _ | - | - | 4. | 14 |
| | | _ | | 7964 | | - | 1 | | 4 | Gravel | _ | 00+100 | 4 | do | 10 | 1 | do | .0 | _ | - | _ | 4 | 14 |
| 3.3 | | | | 1000 | do | | - | Sandusky, M.X | Restaurance of the second | | | | | GR.Ploted | | 4 | de | 0 | _ | _ | _ | The plates with flange through middle | 14 |
| 3.4 | | 12.73 | | 5706 | do | | 1 | Normalk Dix | 4 | Cinders | 1 | 26 | * | 200000000000000000000000000000000000000 | | | | 0 | | | | 4 | 1 |
| 3.5 | _ | - | _ | 6000 | do | - | 1 % | Airline Dix | do | Gravel | 230 | 80 | de | None | | | 20 | 133 | 0.00 | | | A STATE OF THE STA | 1,305 |
| 3.6 | _ | - | | 6000 | 10 | - | 1 | Elkhart Div. | de | do | | 65. | 20 | Yes | | - | do | 0 | | | | Tieplates with flange through middle | 14 |
| 3.7 | 6:0:8 | - | Seasoned 8-18 Ma | 5000 | 2.75 | - | 1911 | Short line | 1.5.M.C. | Stone | Good | 80 | - | None | Heavy | 16 | / | 0 | | - | | | 3 |
| 3.8 | 7.9.86 | = | Seasoned Seasoned | 158000 | 3.5 Gal | = | 1913 | Patterson NJ | D. L. TW | 2. | 2 | 101-91 | Screw | 0.1.TW | = | 1915 | 544 | 0 | 0 | 0 | 0 | Includes Birch + Maple, Sep Piùc, 6 om | 1 |
| | CREOSOTA | ANDC | RUDE OIL | - | 0.0 00. | | 1 | . Kill Street | 10000 | | | | | yes our abt | | 120.13 | 374 | 100 | 130 | 150 | | Elm, Red Och | |
| 4.1 | CREOSOTE | - PUP | NA SAL | ASH for | No: 1-2 | , - | 1909-11 | Boders, Ill | C. B. + Q | Gravel | - | 75 | - | under joints | - | 1912 | - | 0 | - | - | - | | 5 |
| 5.1 | LIJEUSU/E | 7507 | COLUMN THE RESERVE | 274 | I | 5 | 1000 | Lula, Miss. | 1.0. | Gravel | _ | 75 | _ | sat sellers | _ | 1912 | 3 | _ | 1 | - | _ | 40" Tudor bors | 1/2 |
| 0./ | | | Seasoned | (C. | - | 3 | 10000 | CONTRACTORUS | 10000 | (PROVINCE AND | | 10730 | | , | _ | 1917 | 5 | 0 | _ | Good | _ | Weber angle bars | 1/2 |
| 5.2 | 2000 | | | 248 | | 334 | 1910 | Bloomington, III. | 1.0 | old Grave! | | 75 | 100 | do | 1 | 17/3 | - | | 1000 | 0000 | | Freder ungre burs | 10 |
| | LIQUID - U. | M. 10NG | 5 | 1 | | | 100 | Comment of the last | V dec 3 | | | 1 20 | | reduce. | | 100 | | 100 | | | | etam ciana at amatana danau | 1 |
| 6.1 | - | - | Seasoned | 49 | - | 0.287 | 1910 | Greenville, Miss. | 1. C. | Dirt | - | 75 | - | SOL Course | - | 1913 | - | 0 | - | Foir | - | Show signs of surface decay where covered by dirt. | 12 |
| | OIL - CRUD | = | | | | | | 1 | | | | | | | 11 | | 1 | | | | | | |
| 7.1 | | - | | 6 | _ | - | 1911 | Baders, III. | C. B. + Q. | Gravel | - | 75 | - | Yes except under joints | _ | 1912 | 1 | 0 | - | - | - | - | 3 |
| 200 | SALTS (AA | RSCHAL | L-HASSEL | MANN) | | | | | | | | | 0 | under Joinis | | | | | | | | | |
| 08.1 | | | | 98 | - | _ | 1902 | Aclicon Tex. | 60+95 | Sand | Poor | 60 | Cut | _ | Heory | 1905 | 3.75 | 100 | _ | - | 5 | Started to fail in 1904 | 11 |
| 0.7 | ···· | | | 10 | | 1 - 1 | 1 | Trans, rex. | - CIT | | | | | | | | | 1.5.7 | | 1 | | Second Se | 100 |
| 200 | UNTREAT | 20 | | | | 1 | | | | cinta carel | 1 2 4 | 15-85 | | a. | | 1010 | - | 000 | 100 | | 100 | | 3 |
| 9.1 | - | - | _ | 110 | - | - | 1909 | Lines East | C.B.+Q. | Burnt Chy. | | 90 | | Birthy | 100 | 1414 | 5 | 87.2 | 1900 | | | | |
| 9.2 | - | - | - | .23 | - | - | 1910 | 1 | 1 | Gravel | _ | 90 | - | do | | 10 | 4 | 20.1 | _ | - | - | | 3 |
| 9.3 | - | _ | _ | 58 | - | - | 1909 | Lines West | 1. | Burnt Clay | - | 75-85 | - | Yes | - | de | 5 | 71.0 | - | - | - | | 0 |
| 9.4 | - | _ | _ | 15 | - | - | 1910 | de | do | de | - | do | - | do | - | 10 | 4 | 0 | - | - | - | | 3 |
| 095 | | _ | _ | 100 | - | - | 1902 | Besument, Tex. | 6.C.+ S.F. | Sond | Foor | 60 | cut | None | Heavy | 1906 | 4.25 | 100 | _ | - | Mart 4 | 97% out in 1905 | 111 |
| | ZINC CHL | DRIDE | -9 | 1000 | | | 1 | | | 1 | Break A | | 1 | - | | | | 1 | | | 1 | | |
| | Zine chi | 011102 | | MAG / 700 | 24.2-59.6 | | 1885-6 | Prussia | Imper. R.R. | | Poor | | _ | - | | 1885.6 | 10 | 41 | Rot | _ | _ | | 25 |
| 10.1 | | | The second | VUUU NO 3000 | 74.2 320 | | 1 | | | | 1999 | | | 5.50 | | | 19.61 | NA 25% | | | | | 2 |
| 10.2 | | | | 80 | - | | 00 | - | word ned | | Good | | | | | do | 10 | 29.5 | 4 | | 13720 | | |
| 10.3 | - | - | _ | _ | 44 | - | - | Switzer land | Bahn | _ | _ | - | - | - | _ | - | - | - | - | _ | 10 | Life untreated 2% 3 Years | 2 |
| 10.4 | - | - | - | - | - | - | - | Germany | Imper. A.A | - | _ | - | - | - | - | - | - | - | - | - | 9 | General Statement | 100 |
| 10.5 | - | - | - | 4000 | - | - | - | do | do | - | - | - | - | - | - | - | - | - | - | - | 21 | Based on teremals to 1897 | 29 |
| | ZINC CHL | ORIDE - | BURNETT | | | | | | | | | 1.0 | | | | | | | | | | | 1 |
| 11.1 | | | 1 | 106 | - | 25 | 1909 | Lines East | C.B.+9. | Cinders, Gravel, | - | 75-85 | - | Antly | - | 1914 | 5 | 2.0 | Rot. | - | - | | 3 |
| 11.2 | | 1 | | 104 | - | 0.5 | 1910 | | do | Oinders | _ | 90 | _ | All | _ | 1 | 4 | 0 | _ | _ | _ | | 13 |
| | | | | | | | 1909 | | | THE PARTY NAMED IN COLUMN | | 25.05 | | Yes | | 100 | 6 | 1.67 | _ | _ | _ | 2 | 1 |
| 11.3 | | | | 60 | | 10 | 200 | | do | Burnt Clay | | | | | 1000 | 4 | 5. | 10000 | | | - | 1 | 1100 |
| 11.4 | _ | - | 1 | 44 | | do | 1910 | 40 | do | Lyons Stone | | 90 | | do | | do | 4 | 0 | | | | - 401/101 | 3 |
| 11.5 | - | - | _ | 99 | - | 0.41 | 1902 | Bouwort, Tox. | 6.C.4 S.F. | Sand | - | 60 | Cut | None | HONY | 1912 | 10 | 76 | - | - | | Began to fail 1911 | 1 |
| 11.6 | - | - | - | 5,876,173 | - | 0.5 | 1903 | - | 1.0 | _ | - | - | - | - | - | 1908 | 5 | 0 | - | - | 8510 | Includes Oak | 1 |
| 11.7 | - | - | - | 9937 | - | - | 1901 | Pittsburg, Pa. | B. Lines | - | - | - | - | - | - | 1906 | 5 | 0 | _ | - | - | | |
| 11.8 | - | - | _ | 13,835 | - | - | 1902 | the property of the same | do | - | - | - | - | - | - | do | 4 | 0 | - | - | - | - | 1 |
| 11.9 | | - | _ | _ | 34 30/ | - | | Germany | Union Ry | | 1 | - | | | 1000 | 1896 | _ | | 1 | 1_ | 9 | | 13 |
| | 6"x8"x8" | Spuca | Air Seasone | d -00 | | 100 | 1000 | THE RESERVE OF THE PARTY. | 100000000000000000000000000000000000000 | Count | Good | 90 | cut | W | Harry | 1915 | 4 | 0.2 | | | Good | Lremoved - broken | 6. |
| 11.10 | 0 40 40 | Spieza | An orangemen | 500 | | 0.5 | 1911 | Minnersku, Min | C.M. 951.F. | Grave/ | 0000 | 170 | | None | Treasy | 1419 | T | 2.5 | | | - | 200000 | 10 |

@ - Preliminary Vacuum 24 Inch for 45 Min - Max. @ - Average life astimated by Forest Service

| 21 21 21 22 23 24 24 25 25 25 25 25 25 | outled water dast 1.30 |
|--|--|
| CARBOLINEUM - AVENARIUS | oluther dale \$8.00 pike holes \$9.00 |
| CARBOLINEUM - AVENARIUS | oluther dale \$8.00 pike holes \$9.00 |
| 4.1 - Sessoned Mo of Honolula Manuful Yes - 1944 96 Decay around s TABLE 5 - CHESTHUT 1.1 19986 - Sessoned 88 1807 Baselon MA DLYW Store Good 101 Cut Williams - 1815 8 | oike holes 59.00 |
| CRESSOTE - FULL CELL 1/918-6" Steamed 88 - 1/807 Bearlan Not. D.L. TW. Stories Good 101 Cert Walkington - 1915 8 | |
| CREOSOTE - FULL CELL 1/9/8/6' Steamed 88 - 1/807 Beardon Not. D.L. PW. Storie Good 101 Cert Walkington - 1915 8 | _ 400 |
| 1.1 79866 | _ 400 |
| 1.2 CREQSOTE - LOWRY 2.1 Tight 6 1 — Seasoned 733 3.56al — 1912 Addison, N.J. D.L.TW. Stone Good 181 Sear D.L.TW — 1815 3 0 — — — — — — — — — — — — — — — — — — | _ 400 |
| 2.1 THE STORY SESSIFIE 3.1 - HEAVEN SESSIFIE 4.1 - HEAVEN SESSIFIE 5.2 - HEAVEN SESSIFIE 5.3 - HEAVEN SESSIFIE 5.4 - HEAVEN SESSIFIE 5.5 - HEAVEN SESSIFIE 6.6 - HEAVEN SESSIFIE 6.7 HEAVEN SESSIFIE 6.8 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.1 - HEAVEN SESSIFIE 6.2 - HEAVEN SESSIFIE 6.3 - HEAVEN SESSIFIE 6.4 - HEAVEN SESSIFIE 6.5 - HEAVEN SESSIFIE 6.6 - HEAVEN SESSIFIE 6.7 HEAVEN SESSIFIE 6.8 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.1 - HEAVEN SESSIFIE 6.2 - HEAVEN SESSIFIE 6.3 HEAVEN SESSIFIE 6.4 HEAVEN SESSIFIE 6.5 HEAVEN SESSIFIE 6.6 HEAVEN SESSIFIE 6.7 HEAVEN SESSIFIE 6.8 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.1 - HEAVEN SESSIFIE 6.2 HEAVEN SESSIFIE 6.3 HEAVEN SESSIFIE 6.4 HEAVEN SESSIFIE 6.5 HEAVEN SESSIFIE 6.6 HEAVEN SESSIFIE 6.7 HEAVEN SESSIFIE 6.8 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.9 HEAVEN SESSIFIE 6.1 HEAVEN SESSIFIE 6.2 HEAVEN SESSIFIE 6.3 HEAVEN SESSIFIE 6.4 HEAVEN SESSIFIE 6.5 HEAVEN SESSIFIE 6.6 HEAVEN SESSIFIE 6.7 HEAVEN SESSIFIE 6.8 HEAVEN SESSIFIE 6.9 H | |
| \$1 | |
| S.1 | |
| 41 - 1600 1 1600 1 160 1 | 100 |
| S.I | |
| St | - 4 |
| 5.3 4.28683 4.28683 4.28683 4. 5 8.3 Shoty 100.000.00 tr 0.5.4 4.28683 4.88684 4. 5 8.3 Shoty 100.000.00 tr 0.5.5 21280 1905 Menticky 1.C 4. 19 960 - 4.8 100.00 tr 0.5.5 1910 4.5 800 - 4.8 100.00 tr 0.5.5 10.00 tr 0.5.5 1 | 5.00 |
| 9.5.4 21280 1805 Menticky 1.C 1910 4.5 80.0 4.8 Includes Oak 1.05.5 1816 - 1805 Menticky 1.C 1816 Menticks Oak 1.05.7 7:4.8.6.6 1805 Menticks Oak 1.05.7 7:4.8.6.6 1. | Vellow Pive 1.10 |
| 0.56 | _ / |
| 5.7 7:48-8-6' - Sepannel 16 1812 8 these N.J. OLTW Stone 6 sed 101 Stone OLTM - 1815 3 | Yellow Pine 1.05+1.10 |
| 6.1 WOOD TAR CREOSOTE 2 - 1894 November 19 1.1 1.1 2 1.1 CHLORIDE - BURNETT - 1894 November 20 18 18 18 18 18 18 18 18 18 18 18 18 18 | 44.00 |
| 7.1 - 32 1814 Nerson, Od B.Lines 1914 Dayrhor - 5.5 Includes Oaks | |
| 7.1 - 32 1844 Nemork, Out B. Lines 1914 Augustur - 5.5 Includes Oaks | 20.10 |
| ZING CHLUNIUE - BUNNE!! | Yakin Aine 20.10 |
| 0.1 | and Name |
| ZINC CREOSOTE - CARD Spinal Lance | 1400 Nany 27.00 |
| 9.1 165 - 055 115 1994 Line Oat 1 C. 8.79 Capita Gray - 1865 - 1816 - 1814 5 182 Sylver | - 5.00 |
| | - 4 |
| CREOSOTE FULL CELL | 2. |
| 11 - 1 - 95 - 996 1000 (not Fact 0 0 m) Coden Sam 55 - Both - 1911 5 0 | 5.00 |
| 12 37 - de de Lunes Heis! de de - 40 - 1/25 - 4 5 0 | _ 4 |
| UNTREATED | |
| 21 56 4 Lines East d 4 - 4 - Partly - 4 5 946 Rot | - 6 |
| 2.2 - 50 - 4 Lines West 4 4 - 4 - 165 - 4 5 100 4 | _ 4 |
| 31 286 - 052116 4 Lines East 4 4 4 - 6 - Belly - 4 5 11.0 | |
| 31 286 - 50 Creo 4 Lines East 4 4 4 - 6 - 18014 - 4 5 1.35 | _ 2 |
| ZINC TANNIN - WELLHOUSE | |
| 41 87 1882 Tocko, MS ATYSE 1892 11.6 85 Rot - 11-12 14 Agas life un. | |
| 42 50 4 Lorung all 4 1997 15 660 4 source distrigue | d by rooks do |
| ZING TANNIN- WELLHOUSE | |
| 51 49 1 45 ant, 61 Arost 1997 15 84 801 | |
| TABLE 7 - CYPRESS | - 2.00 |
| CARBOLINEUM - AVENARIUS | 2.0,0 |
| 11 1997 3 0 - Seed | |
| O- Average life estimated by Forest Service | 31.00 |

| 1 | 2 | 5 | 4 | 5 | 6 | 7 | | 9 | 10 | " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|------|----------|-------------|---------------|---------|------|-----------|--------|---|---------------|-----------------|----------|-------------------|-------|-----------|---------------|------|--------|--------------|------------|------|-----|--|-----------|
| | ZINC CHL | ORIDE - | PRESSURE | | | 200 | | | | | | | 2100 | - | | | | | | | | | |
| 12.1 | - | _ | | 81002 | _ | - | 1852 | Germany | Hanover | _ | - | _ | _ | - | - | 1867 | 15 | 345 | Decay | - | 148 | | 240,2470 |
| 12.2 | _ | | _ | 600 | _ | - | 6 | de | Brunswick | _ | - | - | _ | _ | - | do | 15 | 42.0 | do | - | 13 | | do |
| | ZINC CRE | OSOTE - | ALLARDYC | E | | | 7 | | | | | | | | | | | | | | | | |
| 13.1 | - | - | | 50 | - | 3.0 Creo. | 1902 | Beaumant, Tex | 6.C.+ S.F. | Sand | Poor | 60 | Cut | None | Heavy | 1912 | 10 | 80 | - | - | - | 80% removed 1911 | 11.00 |
| | ZINC CRE | FOSOTE | - CARD | | | | 100 | | | | 1 | | | | | | 100 | | | | | | 0.00 |
| 14.1 | - | _ | _ | 433 | - | So creo. | 1909 | Lines East | C.B.+9. | Born Chy | - | 15.86 | - | Portly | - | 1914 | 5 | 0.4 | _ | - | - | | 5.00 |
| 14.2 | _ | _ | - | 370 | - | 1 | 1910 | 4. | de | Shoridan Grand | - | 90 | - | 111 | - | 1 | 4 | 0 | _ | - | - | | 5.00 |
| 14.3 | _ | _ | - | 37 | - | 10 | 1911 | do | 16 | do | - | 75 | - | Yes | - | 4 | 3 | 0 | - | - | - | - | 5.00 |
| 14.4 | - | - | _ | 240 | - | do | 1909 | Lines West | de | Burnt Clay | - | 75-85 | - | do | - | 1 | 5 | 0 | - | - | - | | 5.00 |
| 14.5 | - | - | - | 177 | - | do | 1910 | do | do | Lyons Stone | - | 90 | - | do | - | 1. | + | 0 | - | - | - | | 5.00 |
| 14.6 | 7:9:85' | HOWA | Seasoned | 1107 | - | 20 Creo | 1911 | Windsor, chio | 8.40. | Grave/ | Good | 90 | cut | Shoulder | Heavy | 1915 | 4 | 0 | - | - | - | Includes Gum | 1.98 |
| 14X1 | 6×8×8 | Sowed | Air Seasoned | 344 | - | do | 1912 | Lake, Wis. | C.M. TSt.P. | Cinder | 40 | 85 | do | None | Average | 1915 | 3 | 0 | - | - | - | Beech-Sawed Boxed Heart | 6.00 |
| | ZINC CH | EOSOT | F - RUTGE | R5 | | 0.00 | | | 770 | | | | | | | | | 150 | | | | | |
| 15.1 | | - | _ | 50 | - | 0.5ZINC | 1902 | Brownert, Tex. | 6.C.+ 5.F. | Sand | Poor | 60 | cut | None | Heavy | 1908 | 6 | 100 | - | - | 6 | All removed in 1908 | 11.00 |
| | ZINC TA | YMIN - Y | VELL HOUS | E | | | | | | | | | | | | -31 | 100 | | | | | | |
| 16.1 | - | - | - | 100 | - | 0.87 | 1902 | do | do | Sand | Poor | 60 | cut | None | Heavy | 1912 | 10 | 0 | - | - | - | 16 Partially decayed | 11.00 |
| | | | | | | | | TABLE | 3 - A | ED BIR | CH | | | | | | | | | | | Para de la companya del companya de la companya del companya de la | |
| | CREOSO | TE FUL | T CETT | | | | | | 100 | | | | | | | | | | | | | | - |
| 1.1 | - | - | - | 45 | - | - | 1910 | Honover, Ill. | C.B.+Q. | Sheridan 6 mm | - | 90 | - | 111 | - | 1914 | 4 | 0 | - | - | - | - | 5.00 |
| 12 | _ | - | - | 30 | - | - | 4 | Standing, TH. | do | 26 | - | 4 | - | 10 | - | 40 | 4 | 0 | - | - | = | | 5.00 |
| 1.5 | _ | _ | -, | 14 | - | - | 1911 | Boders, Ill. | do | Grave! | - | 75 | - | Sal Joins | - | do | 3 | 0 | | | | | 5.00 |
| 1.4 | - | | seasoned lyr. | 59 | _ | - | 1910 | Barr, Colo. | do | Lyons Stone | Kery Dry | 90 | - | Yes | _ | 1912 | 2 | 0 | _ | _ | - | | 5.00 |
| | UNTREAT | ED | | 1 | | 10 9 | | A comment | 9 3000 | | | | | 2000 | | 2000 | | 0.00 | | | | Avg. Life Less thon 4 yrs. | Acces ! |
| 2./ | | - | _ | 91 | _ | - | 1909 | Lines East | C.B.+ 9. | Burnt Clay | _ | 75.05 | - | Partly | - | 1914 | 5 | 100 | _ | - | - | Avg. Lite Less than 4 yrs. | 5.00 |
| 2.2 | | - | _ | 49 | - | _ | 1910 | - | 10 | Sheriden Gravel | - | 90 | - | All | _ | de | 4 | 1 | | - | | 2 | 5.00 |
| 2.3 | _ | _ | - 4 | 48 | - | V-2 | 1909 | Lines West | 1. | Bernt Clay | - | 15-85 | | Yes | | 4. | 5 | 1 | | - | | 2. | 5.00 |
| 2.4 | | - | | 30 | _ | _ | 1910 | do | do | Lyons Stone | | 90 | | 10 | | do | 4 | 96 | - | - | | | 5.00 |
| | ZINC CHL | OHIOE . | BURNETT | | | | | 4 | | | 1.00 | | | | Annual Inches | | | 1 | | | | | Jana 8 |
| 3.1 | - | | | 45 | | 0.5 | 1910 | | 6.8+9 | Sheridon Graval | | 90 | - | All | | 1914 | 4 | 0 | | | | | 5.00 |
| 32 | 1000 | 1 | Successed Inc | 28 | 3 | 0.5 | do | Blanding, Ill. | 1 | do | | 4 | | 4 | 100 | 10 | 4 | 0 | | | | The state of the s | 5.00 |
| 3.3 | | | Seasoned Lyr | 30 | - | 0.5 | 4 | Borr, Colo | 10 | Lyons Stone | Kery Dry | do | - | Yes | - | do | 4 | 0 | | 0.00 | 100 | | 5.00 |
| 1 | ZINC CRE | OSUIE | I | 435 | | aszine | 1000 | | 2010 | cinders smeet | _ | **** | | - | | 1010 | - | | -1.1 | _ | 1 | | 6.0 |
| 4.1 | | | | 276 | 1000 | 30 creo | 1909 | | C. Land Steel | Grave/ | | 75-85 90 90 | | Fartly | | 1914 | 5 | 0 | Split | | - | | 5.00 |
| 4.2 | E | | | 12362 | | - | 1909 | do | do | Onders Grave! | | | | Yes | | 1 | 1000 | 0 | | | | 24 % split | 5.00 |
| 4.3 | | | | 238 | | 10 | 1910 | Lines West | 10 | Lyons Stone | | 90 | | do | | 10 | 5 | 0 | _ | _ | _ | 3% Split | 500 |
| 7.7 | 1000 | | 100 | 122 | | 1 | 1310 | | | CEDAR | | 10 | 153 | | | 1 | ~ | 0 | | 1 | | 3% Spill | 5.00 |
| | UNTRE | TFD | | | | _ | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 1 | | | | | | | | | | | | | |
| 1.1 | _ | 1- | - | 329,774 | _ | _ | 1905€ | Nebrosko | C.B Q. | _ | | _ | _ | _ | | 1910 | 4 | 17.5 | _ | - | _ | Includes Pine and Tamprack | 1.10 |
| 1.2 | _ | - | - | 430,300 | | _ | 1901 | Wyo. + Mant | 06 | _ | _ | _ | _ | - | - | 4 | 9 | 11.5 | _ | - | _ | de de Fir | 1.10 |
| 1.3 | - | - | - | 83,200 | 1 | - | 1900 | The second contract of | 6.T | - | _ | _ | _ | _ | - | 1 | 10 | 6.1 | - | - | - | | 1.10 |
| 14 | - | - | _ | 11,117 | - | - | 225 | West Mich. | C.R. Find. | _ | _ | _ | _ | - | - | 1914 | 16 | 100 | _ | - | - | Includes Oak | 1.10+1.15 |
| 1.5 | - | - | - | 397,440 | - | - | 19254 | The second second second | 1 | _ | _ | _ | _ | _ | _ | 1910 | 607 | 27.6 | _ | - | - | do Hemlock and Tomarock | A |
| 1.6 | | - | _ | 110,880 | - | _ | 1099-a | 200000000000000000000000000000000000000 | Rutland | - | - | _ | _ | - | - | 1910 | 101.11 | 56.0 | - | - | - | Includes Hemlick Tomarack Sprice | 1.10 |
| 1.7 | 7:8:8 | - | - | 1433 | - | - | 1904 | | O.N | Gravel | 6000 | G.N. 68 | 96152 | None | _ | 1914 | 10 | 28.8 | Rot | - | - | Includes Tamarack | 40.00 |
| 1.8 | 4 | - | - | 965 | - | - | 10 | 10 | do | 10 | 1 | 4 | 4 | | _ | do | 10 | 38.8 | do | - | - | do do | 40.00 |
| 1.9 | 6-8-8' | Saured file | . = | 500 | = | = | 1902 | Lynden Wis | CM. ost. P | cinders | 2 | 85 | Commo | None | Heavy | 1915 | 13425 | JR.O None | Rot + Wear | Food | = | | 6.10 |
| 1.12 | 1 4 | Newn | 1 = | 500 | 1 = | 1 = | 1913 | Milmoukee Wis | 1 4 | - = | = | 850055 | 4 | Sellers | Heavy | 4444 | 3 | 4 | = | 4 | = | | 2 |
| 1.13 | de | 1 4 | 1 - | 1 300 | 1 - | 1 - | do | de | 1 4 | - | | 65 | 2 | None | do | 14 | 13 | 14 | - | 1 26 | - | | 4 |

| 21 22 23 24 25 31 41 42 43 44 45 46 7 | CREOSOT CREOSOT | - - - - - - - - - - - - - - - - - - - | | 5 500 - 15 10 29 3 | | | 1876 1874 1910 do | Brook, N.J. Lehigh and Suspekanna Ornston | 10 CRR.SH. 10 C.B.+Q. | Sheridan Gravel | - - | <i>15</i> | - - | <i>IS</i> | - - | 1915 | 15 | 100 | | mil Cut | | 23 10% removed 1888 - Lastones removed in 1895 Includes Codar In fairly good condition 24 yrs | 15.00 |
|--|--|---|---------------|--------------------------------------|---------|------------|----------------------------|--|--------------------------------|-------------------------|----------|-----------|--------|--------------|--------|-------|-------|-------|-----|--------------------|-----|--|--|
| 21 22 23 24 25 31 41 42 43 44 45 46 27 424 425 9426 | CREOSOT OIL-CRU UNTREA TX9'X9' TX9'X9' | | | - 15 10 29 3 114 | 111111 | 11111 | 1879 1910 do | Brook, N.J. Lahigh and Susquehanna Ovvision Hanover, Ill. Blanding, Ill. | 1. C.B.+Q. | Sheridan Gravel | | _ _ | _ | - | _ | | 15 | 200 | _ | Zif | _ | removed in 1895. Includes Cedar | 15.00 |
| 22 25 24 25 31 41 42 43 44 45 46 2 425 424 425 | 01L-CRU UNTREA 729'29' 728'29' do | | | - 15 10 29 3 114 | 111111 | 1 111 1 | 1879 1910 do | Brook, N.J. Lahigh and Susquehanna Ovvision Hanover, Ill. Blanding, Ill. | 1. C.B.+Q. | Sheridan Gravel | - | - | - | = | _ | | - | 200 | _ | - | - | removed in 1895. Includes Cedar | 15.00 |
| 2.8 2.4 2.5 3.1 4.1 4.2 4.3 4.6 2.6 2.6 2.7 4.24 4.25 9.426 | 01L-CRU UNTREA 729'29' 728'29' do | | | 10 29 3 114 | 1 111 1 | 1 111 1 | 1910 do | Lahigh and Suspension Oversion Honover, Ill. Blanding, Ill. | C. 8.+Q. | | _ | - | - | - | - | 4 | _ | 100 | - | - | - | In fairly good condition 24 yrs | |
| 24 25 31 41 42 43 44 4.5 46 47 4.24 4.25 9.426 | 01L-CRU UNTREA 729'29' 728'29' do | | | 10 29 3 114 | 1111 | 1 11 1 | do | Hanover, III. Blanding, III. | C. 8.+Q. | | _ | 1 | | 1 | | 1000 | | ,,,, | | | 1 | | A COLUMN TO A COLU |
| 24 25 31 41 42 43 44 4.5 46 47 4.24 4.25 9.426 | 01L-CRU UNTREA 729'29' 728'29' do | | | 10 29 3 114 | 1.11.1 | 1 11 1 | do | Hanover, III. Blanding, III. | | | | | | | | | | | | | | In fairly good condition 24 yrs Some grounds for believing Some ties still in service | 15.00 |
| 24 25 31 41 42 43 44 4.5 46 47 4.24 4.25 9.426 | UNTREA | | 11 1 111 | 10 29 3 114 | 101 1 | = - | do | Blanding, TH. | | | | | 1.00 | 411 | | me | | _ | | t sail | 100 | Some Fred Still In Service | 10000 |
| 2.5 3.1 4.1 4.2 4.3 4.4 4.5 4.6 7 4.24 4.25 9 4.26 | UNTREA | | 11111 | 3 114 | 1 1 | = | 1.12 | The second secon | de | | | 90 | = | All | | 1414 | 4 | 0 | _ | - | - | | 500 |
| 3.1 4.2 4.3 4.4 4.5 4.6 4.7 4.24 4.25 9 4.26 | UNTREA | | 1 1 1111 | 3 | = + | = | 40 | Berr. Colo. | 17.7 | do | - | do | - | 1. | - | 1. | 4. | 1. | - | - | - | - | 5.00 |
| 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | UNTREA | | 1 1111 | 114 | , | - | | 100000000000000000000000000000000000000 | de | Lyons Stone | Hery Dry | 1 | - | Yes | - | 10 | 1. | 4. | - | - | - | | 5.00 |
| 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | 72929' | 1111 | | 114 | 1 | _ | 100000 | | | | | 100 | | | | and. | | | | | | | |
| 4.2 4.3 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | 72929' | 1111 | 1111 | 1 1 2 2 2 2 2 3 3 | | | 1911 | Boders, Ill. | do | Gravel | - | 75 | - | ender joints | - | 1912 | / | 0 | - | - | - | - | 5.00 |
| 4.2 4.3 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | - 7×9×9' 7×8'×9' | 11111 | HE | 1 1 2 2 2 2 2 3 3 | | | land. | 1 | | | | | | | | | | | | | | - | |
| 4.3 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | - 7×9×9' 7×8'×9' | 1111 | Ξ | 25 | - | - | 1909 | Lines East | do | Burnt Clay | - | 75.85 | - | Portly | _ | 1914 | 5 | 54.2 | Not | - | - | - | 5.00 |
| 4.4 4.5 4.6 4.7 4.24 4.25 0 4.26 | 7×8"×9" | 111 | = | | _ | - | 1910 | do | 40 | Grave! | - | 90 | - | All | - | 10 | 4 | 40 | 1. | - | - | | 5.00 |
| 4.5 4.6 4.7 4.24 4.25 4.25 | 7×8"×9" | _ | _ | 60 | - | - | 1909 | Lines West | 40 | Goders Grand | - | 75.05 | - | Yes | - | 16 | 5 | 58.5 | 4 | - | - | | 5.00 |
| 4.6 2 4.7 4.24 2 4.25 0 4.26 | 7×8"×9" | _ | | 29 | - | - | 1910 | do | 10 | yours Stone | - | 90 | - | do | - | 10 | 4 | 3 | do | - | - | | 5.00 |
| 4.7 4.24 4.25 9 4.26 | do | | - | 6675 | - | _ | do | Lafayatta | 6.H.+.S.A | Grave! | - | 00 | Screw | Chrk. | - | 6 | 45 | 0 | _ | Good | - | | 7.00 |
| 4.24 2 4.25 0 4.26 | | _ | - | 500 | _ | - | 1905 | Boy Her 4 | do | de | - | - | - | Glenden | _ | de | 9 | 31.8 | - | - | - | 249% out die to wreak | 7.00 |
| 4.25 | 20000 | - | _ | 500 | _ | - | do | do | do | do | - | _ | - | None | _ | do | 9 | 37.8 | | - | _ | 31.6% 10 | 7.00 |
| 0 4.26 | 1.4 40 | _ | _ | 2290 | - | - | 1909 | 4. | de | 4 | _ | 80 | Screw | Clark | - | 1 | 5 | 0 | _ | Good | - | May need renewaly next year | 7.00 |
| A STATE OF THE REAL PROPERTY. | 10 | - | _ | 3637 | - | - | 10 | i. | 1. | 1. | _ | 4 | 4 | do | _ | 4 | 5 | 0 | _ | 10 | _ | 4. | 7.00 |
| 9 4.27 | - | Hown | - | 282 | - | - | 1895 | Wathins Cutoff | de | Dirt | _ | - | _ | Yes | _ | 4 | 19 | 36.5 | _ | _ | _ | Teche Cypress | 7.00 |
| | - | de | - | 568 | - | - | 1. | 4 | 1. | 1. | - | _ | _ | None | _ | 4 | 19 | 99.0 | _ | _ | _ | de de | 7.00 |
| 9 4.28 | - | 4 | _ | 44 | - | - | 4 | 4. | 4 | Rock | _ | _ | _ | Yes | _ | 4 | 10000 | 100 | | _ | _ | Hermentau Jo | 7.00 |
| 2 4.29 | - | de | - | 75 | - | _ | 4. | de | 1. | Earth | _ | _ | _ | None | _ | 4 | 19 | 57.5 | _ | _ | _ | 4 4 | 7.00 |
| 9 4.30 | - | Sawed | - | 641 | _ | - | 4 | do | 4 | Rock | - | _ | _ | Yes | _ | 4 | 19 | 100 | | _ | _ | Calcasieu de | 7.00 |
| 9 4.31 | - | de | _ | 374 | - | _ | 4 | 4 | 1. | Earth | _ | _ | _ | 1. | - | 1 | 19 | 91.4 | _ | _ | _ | 4 4 | 7.00 |
| 0 4.32 | - | do | _ | 654 | _ | - | 1. | 1. | 1. | do | _ | _ | _ | None | _ | 4 | | 75.7 | | | _ | 4 4 | 7.00 |
| 4.53 | _ | - | Well Seasoned | 274 | _ | _ | 1909 | Lule, Miss. | 1.0. | New Grave | _ | 75 | | t Ticalade | | 4 | _ | | | | | Domaged by desoilment | 12.00 |
| 434 | _ | _ | de | 274 | - | _ | 4 | de | 1. | de | _ | 1. | _ | do | 201 | 4 | 2 | | | 1234 | | 40" tudor angle bars. | 12.00 |
| 4.35 | _ | _ | do | 274 | _ | _ | U-55 2 | Greenville, Miss. | 1. | Dirt | _ | 10 | | t ne plated | | 1915 | | 0 | | SONWAN | = | Weber Joints | 12.00 |
| 4.36 | _ | _ | - | 242328 | _ | _ | 1905-4 | Missouri | C.B. 9 Q. | | _ | _ | | Zebnamy | | 72500 | 6-7 | 10465 | 100 | driger - | | Includes White Ook | 1.10 |
| 4.57 | _ | _ | _ | 175500 | 200 | 100 | 1907 | Louisiana | CRI.TP. | | | - 1 | | - | - | | 300 | 18 | _ | | | Includes White Ook, Pine + Gum | 1.10 |
| 4.38 | 4 | - | _ | 236/60 | _ | | 1905 | Arhansas | M.H.TLO. | 1 | | | | | | 00 | 3 | 19 | | | | | 1000 |
| 4.59 | - | _ | | 274 | | | 1910 | Greenile, Miss. | I.C. | Dirt | | 75 | | 4 mindeter | | 40 | 5 | 62 | _ | Samuel | | Includes White Ook + Red Oak | 4 |
| | ZINC CHE | ORIDE | -BURNETT | 2.0 | | | /// | prezimit, mo. | 2.0. | 0,,, | | 13 | | # Diplated | _ | 1913 | 3 | 0 | - | Secretary Decayles | _ | Weber Joints | 12.00 |
| 5.1 | _ | _ | | 15 | | 0.5 | 1910 | Hanover, Ill. | C. B. + Q. | Sheridan Gravel | | 00 | | | | | | | | | MA | | |
| 5.2 | | | | 10 | | | 4 | 100000000000000000000000000000000000000 | de | A STATE OF THE STATE OF | | 90 | | All | _ | 1914 | 4 | 0 | _ | - | - | | 5.00 |
| 5.3 | | | Seasoned Lyr | 30 | | 1 | 2 | Blanding, Ill. | | Lyons Stone | V | 4 | | - | - | - | 4 | 0 | - | | - | | 5.00 |
| 200 | ZINC CRE | DSOTE . | | 00 | 200 | - | ~ | Barr, Colo | 4 | Lyons Stone | Yery Dry | 4. | | Yes | _ | 1 | 4 | 0 | - | - | - | | 5.00 |
| 6.1 | _ | | 1 | 394 | | ns zine | 1000 | 1 Face | 0000 | anders Grave | | 20.00 | | | | 200 | 13 | | | | | | |
| 6.2 | | 120 | | 7.33 | - | 3.0 0 rev. | 1909 | Lines East | C.Brq. | Bunt Clay | - | 76.05 | - | Partly | - | 1914 | .5 | 0 | - | - | - | 1. | 5.00 |
| 6.3 | 22. | -21 | | 24 | = | de | 1910 | 40 | 1 | Stavel | _ | 90 | - | All | - | 4 | 4 | 0 | - | - | - | - | 5.00 |
| 6.4 | | _ | | 208 | | 4 | 1909 | Lines West | 1. | Onders Gravel | _ | 75-85 | - | Yes | - | 4 | 5 | 0 | - | - | - | | 5.00 |
| 01. | | | | 47 | - | 10 | 1910 | 10 | 10 | Lyons Stone | 2500 | 90 1 | _ | 1. | - | 4 | 4 | 0 | - | - | - | | 5.00 |
| | INTEE | TEO | - | | 1 | | | | | -617 | RESS- | REL | _ | | - | | | | | | | | - |
| 7.1 | UNTREA | | 100000 | 1200 | | 2000 | | | 222 | 100 | | | | | | | 10 | | | - | | | |
| " | | | | 1200 | _ | _ | 10000 | Louisiana | 1.C. | | | _ | - | - | | 1909 | 14 | 4 | _ | - | - | - | 12.20 |
| | @ Aven | age life | Cestimatea | by Fos | rest se | rvice) f | or In | dex Nos 4 | 200 | A A OT . | | / | - | | | | | | | | | | |
| | | | | do | | | | | . EO an | 4 4.67 66 | moinea | was | | 97 rea | | | | | | | | | |
| | 0 | do | | 1. | | | | 10 4 | 28 and | 4.29 | m oinea | do | 8. | 95 de | | | | | | | | | 1 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------|-----------|----------|------------|-----------------|-------|---------|---------|---|-----------|-------------------------------|----------|--------|--------|---------------|----------|------|------|------|--------|--------------------------|------|--|-------|
| _ | | | | | | | | | - CYI | PRESS-Y | ELLO | w- | | | | | | | | | | | |
| | UNTREA | 750 | | | | | | | | 1 | | 1 | | | | | | | | | | - | |
| 8.1 | _ | | - | 1679 | _ | - | 1906 | Hemphis | 1.C. | - | _ | - | _ | _ | _ | 1909 | 3 | 35 | _ | _ | - | | 12.20 |
| 9.2 | 7×9 | - | _ | 48000 | - | - | 1902 | do | do | - | - | _ | - | - | _ | 1. | 7 | 40 | _ | _ | _ | | 1. |
| 9.3 | 1. | - | - | 19200 | _ | - | 1900 | de | 1. | _ | _ | - | - | _ | _ | 1. | 9 | 60 | _ | _ | _ | - | 1 |
| 9.4 | do | - | - | 67200 | _ | - | 1899 | do | 4 | - | - | - | _ | _ | _ | 1 | 10 | 60 | _ | _ | _ | | 4 |
| 9.5 | 6×8 | _ | - | 34000 | - | - | 1901 | de | 4 | _ | _ | _ | _ | - | _ | 1 | 8 | 60 | _ | _ | _ | | . 1. |
| 8.6 | 7×9 | - | - | 25600 | _ | - | Before | vicksburg | 1. | - | - | - | - | - | - | 1 | Ower | 80 | - | - | - | | 1 |
| 3.7 | 10 | - | - | 25600 | - | - | do | de | 1 | - | - | - | - | _ | _ | 1. | de | 100 | - | - | - | | 1. |
| | | | | - | | | | TABLE | 8 E | LM-WHI | TE | | - | | | | | | | | | | |
| | CREOSO | E FU | LL CELL | | - | | | | | | | | | Bull | | | (In) | 190 | | | 201 | | 1 |
| 11 | - | - | - | 106 | - | 12.97 | 1909 | 7.100.000 | C. B.+Q. | Surat Clay | - | 75-85 | - | Party | - | 1914 | 5 | 2.8 | Broken | - | - | | 5.00 |
| 2 | _ | - | _ | 99 | _ | de | 1910 | do | 26 | Grave! | - | 90 | - | All | - | 6 | * | 0 | - | - | - | | de |
| 1.3 | - | - | - | 58 | - | do | 1909 | Lines West | de | Onders Gravel Burnt Clay | - | 75.85 | - | Yes | _ | 1 | 5 | 0 | | - | - | - | do |
| .4 | | - | - | 60 | - | do | 1910 | do | de | Lyons Stone | - | 90 | - | do | - | 4 | 4 | 0 | - | - | - | - | do |
| | CRUDE O | 74 | | | | | | | , | | 1 _ 1 | 100 | | | | | | | | | | | |
| 2.1 | _ | _ | - | 2 | - | - | 1911 | Boders, Ill. | de | Grave! | - | 75 | - | Encept joints | - | 4 | 3 | 0 | - | - | - | - | do |
| | UNTREA | TED | | | | 100 | | | | Conters Convel | | 15.00 | | | | | 5 | | - 1 | | | / | 1 |
| ./ | - | | - | 89 | _ | - | POSICIO | 11 X P P P 11 X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 14 | Cinders Gravel | _ | 75-85 | - | Partly | - | do | 5 | 75.2 | Rot | - | - | | 1 |
| 2.2 | = | _ | _ | 30 | - | - | 1908 | de | 4 | Gravel | _ | 90 | - | On Curves | - | 40 | 6 | 100 | 4 | - | - | 76% Rot - 20% Broken - 4% Burned | 4 |
| .5 | 1 | | _ | 25 | _ | _ | 1910 | do | d. | Sheridan Gravel Onders Gravel | - | 75-85 | - | All | - | 40 | 4 | 52.0 | 40 | - | - | | 14 |
| 14 | | | | 48 | | = | 1909 | Lines West | 4 | Burnt Clay | | 90 | _ | Yes | - | do | 5 | 70.0 | 4 | - | - | | 4 |
| 5.5 | ZINC CH | 10000 | BURNETT | 30 | _ | - | 1410 | 40 | 1. | Lyons Stone | Very Dry | 90 | | do | - | do | 4 | 3.0 | do | - | - | | do |
| ., | ZIMC CH | UNIDE | BURNETT | 77 | _ | 0.5 | 1909 | Lines East | 4 | Onders Gavel | | 75-85 | _ | and. | | 1 | - | 20 | | | 1 | | , |
| 4.1 | | = | | 146 | | 1. | 1910 | 10 | do | Sheridan Bravel | | 90 | | Partly | | do | 5 | 2.6 | - | | | acult theter totals | 1 |
| 2000 | | | | 43 | | 1 | 1909 | Lines West | do | Onders Gravel | | BENCH! | | Yes | | de | 4 | _ | | _ | | 2 Split - I broken - I shaky | 4 |
| 9.4 | | | - E | 30 | Ξ | 10 | 1910 | do | do | Lyons Stone | Very Dry | 90 | | 1 | O SECOND | do | 5 | 0 | | | | | 1 |
| 7 | ZINC CRE | OSOTE. | CARD | 00 | | | 1110 | | | Lyens Stone | neig big | /- | | - | | 00 | 4 | | | | | | 1 |
| 5.1 | Zine circ | | - | 444 | _ | as zine | 1909 | Lines East | 1 | Onders Gravel | - | 75.85 | _ | Partly | _ | 1. | 5 | 30 | | 50 | | No. | 1. |
| 5.2 | | | | 195 | | do crea | 1908 | 40 | 1 | Burnt Clay Bravel | | 90 | | On Curves | | do | 6 | 0 | | | | | 1 |
| 5.3 | _ | _ | _ | 149 | _ | 1 | 1910 | 4 | do | do | | 90 | | All | | 1 | 4 | | | | | | do |
| 5.4 | _ | _ | _ | 165 | _ | 10 | do | de | 10 | Pling driven | | 66 | _ | None | _ | do | 4 | 0.6 | | _ | 1 | | 4 |
| 5.5 | _ | - | _ | 244 | _ | do | 1909 | Lines West | de | Onders, Gravel, | _ | 75:85 | _ | Yes | _ | do | 5 | 2.8 | _ | _ | _ | _ | de |
| 5.6 | _ | _ | _ | 121 | _ | 10 | 1910 | do | 4 | Lyons Stone | Very Dry | 90 | _ | do | _ | de | 4 | _ | | _ | _ | | do |
| 100 | | | | | | | | | | ELM- | | - | | 100 | | | | | | | | | |
| | CRESOL - | CALCIUN | 1 - NO STE | AMING | 1 | | | | | | | | | Serence of | | 1 | | | | | | | |
| 6.1 | _ | - | seasoned | 9 | - | 0.5 | 1910 | Greenville, Miss | 1.0 | Dirt | - | 75 | - | 1 Tienblad | _ | 1913 | 5 | 0 | - | show Surface Decay | - | Show decay where in contact with corth - Weber Joints. | 12.00 |
| | | | | | | | | TABL | F 9 - | FIR-RE | 0 | | | | | 100 | | | | Decay | | Carin - Weber Coints. | |
| | CREOSO | TE -F | ULL CEL | ¥ | | 1 | | | | 1000000 | | | 0.00 | 10 - 11 | | | | | | | | | |
| 11 | 7'x8"x8' | - | _ | | | | | Butte, Mont. | | Rock | Poor | 90 | Single | Soldie 5.7 | Heavy | 1911 | 1 | - | _ | - | - | | 24.00 |
| | ZINC CHE | ORIDE . | BURNETT | - ZINC C | REOSO | TE-ALLA | ROYC | E- CREOSO | TE-RUE | | / | | | | | | | | | L Y | | | |
| 21 | - | - | - | 61 | - | - | 1906 | Sheridan, Wyo | C.B. + Q. | Bollentine Gravel | - | 85 | - | Sellers | - | 1914 | 8 | 19.7 | Decay | - | - | Includes Lodgepole Pine | 5:00 |
| | | | | | | | 1 | | | FIR- | | | - | | | | | | | | | | |
| | COPPER | SULPHA | TE. BOILE | The same of the | | | 1 | | la dila d | | | | | 1. | | | | | | | | | |
| 7./ | _ | - | - | 36640 | - | - | 1850 | Berlin, Germany | P.M. R.R. | - | - | - | _ | - | - | 1066 | 16 | 66.2 | - | - | 14 | | 2.40 |
| | COPPER | SUL PHAT | E-STEEP | | | | | | a de la | | | | | | | 200 | | 100 | | | | | |
| 41 | | - | _ | 60000 | _ | - | 1851 | do | L B. R.R. | _ | _ | - | - | - | - | 1868 | 17 | 69.0 | _ | - | 13.9 | - | do |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | |
|-------|-----------------------|----------|--------------------------|------------------|-------|-------|---------|---------------|-------------|--------|-----------|-------|----------------|--------------|-------|------|-----|-------|----|--------|-------|---|----|
| 5.1 | _ | _ | E- PRESS | URE 111,044 | _ | | 1849-50 | Germany | M. W.R.R. | 1 | | | | _ | _ | 1866 | 16 | 20.9 | _ | _ | 16 | | 1 |
| 6.1 | CREOSOT | - | | ,,,,,,,,,, | | | | | | 50 | | | | | | | /- | | | | |) — — — — — — — — — — — — — — — — — — — | - |
| | SALTS - | | ALL HASSE | | - | - | - | 2 | GYARR. | - | - | - | | - | _ | - | - | - | - | - | 14-16 | | 1 |
| 7.1 | PRESERVA | TIVE NOT | KNOWN | 15597 | - | - | 1902 | - | C. B. + Q. | _ | - | - | - | - | _ | 1908 | 6 | 100 | - | - | - | Dead failure | 1 |
| 8.1 | UNTRE | ATED | GEE CED | 315808 AR TAB | NE 4- | 12) | 1906 | Wyoming | 26 | - | - | - | - | - | - | 1910 | 4 | 1.75 | - | - | - | Includes Pine | 1 |
| 9.7 | 1-11 | - | - | 882 407 | - | - | - | Germony | Six Ry's | _ | - | - | - | _ | _ | 1880 | _ | - | _ | - | 7.2 | _ | 1 |
| 9.2 | - | - | - | 79200 | - | - | 1856-7 | 2 | - | - | - | - | - | - | - | 4 | 11 | 98.9 | - | - | 7.0 | _ | 1 |
| 9.3 | - | - | - | 146800 | - | - | 1854 | 4 | Schleswig | - | - | - | - | - | - | 4 | 15 | 90.7 | - | - | 8.6 | - | |
| 9.4 | - | - | - | 93543 | - | - | 1856 | de | L. Dresden | _ | - | - | - | - | - | 4 | 12 | 100 | - | - | 7.9 | | 1 |
| 9.5 | VARIANIS | - | - | 68291 | - | - | 1864 | de | T.Inter | - | - | - | - | - | - | 6 | 13 | 82.8 | - | - | 9.4 | _ | 1 |
| 10. | VARIOUS 65 10 18 8 | | -3323 | 02/24/ | | | _ | , | _ | | 47 | | 1 | Mary 1 | | | | | _ | | 14 | 13 Railroads - Includes Pine | |
| 10.1 | | | E - BURNE | 83/84/ | - | | | de | | _ | - | - | - | - | - | | | - | | - | 17 | S Hamilands - Incident Time | 1 |
| 11.1 | ZINCO | HLUNIO | E - OUNNE | 12,000 000 | _ | 0.27 | 1895 | _ | S.P. | - | | - | 251 | _ | _ | 1908 | 13 | _ | _ | ay Rel | 10-12 | Inoludes Pine | |
| 11.2 | _ | | | 4,836,668 | _ | 0.27 | 1899 | | 6.8.79 | - | _ | _ | | 3 | | 1 | 9 | _ | | -g-ner | 10-12 | de Rol when congress | 4 |
| 11.3 | 100 | | _ | 4,000,000 | _ | 0.25 | 1902 | _ | U.P. | _ | _ | | | | _ | 4 | 6 | | _ | _ | 10-12 | de with saith | |
| 11.4 | 2 | | _ | _ | _ | 0.78 | 1904 | | B.N. | _ | 1 | _ | _ | | _ | 4 | 4 | 0 | _ | _ | _ | d | П |
| 11.5 | = | _ | _ | 161515 | _ | | 1854.5 | Germany | Rh Emd. Ry. | - | - | - | = | - | _ | 1879 | 24 | 46.3 | - | - | 22.8 | Life untrested 7.2 lears | 1 |
| | ZINC C | VLARIO | | | | | | | | | 4 | | | 0 | | | | | | | 1 | | 1 |
| 12.1 | - | _ | _ | _ | | _ | - | Switzerland | S.N0.8 | _ | - | - | - | - | _ | _ | _ | - | - | - | 12-14 | 4 78 | 1. |
| | ZINC T | ANNIN- | WELLHOU | SE | | 0- | | | 100.000 | | | | | | | 100 | | | | 120 | | | |
| 13.1 | 72828' | - | _ | - | - | 0.78 | 1886 | - | U.R | - | - | - | cut | - | - | _ | - | - | _ | - | 6.8 | Split in Spiking | |
| - | | | | - | | | | | | -FIR. | DOUGL | AS | | | | - | | | | | | | + |
| | CREOSO | TE - F | ULL CELL | | | | | | | | | | | | | | | | | | | | 1 |
| 14.1 | 7:9.8 | Sawrt | Seasoned | 173 | - | 6.2 | 1906 | Maywood, Wash | N.P. | Gravel | Good | 85 | Cot | Flat | Heary | 1915 | 8.3 | 21.3 | - | Foir | - | _ | 12 |
| 14.2 | 4 | 6 | 4 | 46 | _ | 4 | 4 | 4 | . 4 | 4 | 4 | 4 | 3.ren | 4 | 4 | 4 | 4 | 15.8 | - | - | - | _ | |
| 14.3 | 4 | 6 | 4 | 100 | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | SOME | Sellers | 4 | 4 | 4 | 6.0 | - | - | - | Rail Cot | |
| 14.4 | 4 | 4 | 4 | 71 | - | de | 4 | 4 | 4 | 4 | 16 | 6 | Cot | None | 6 | 4 | 4 | 7.0 | - | - | - | Turned over | 1 |
| 14.5 | 4 | 6 | 4 | 52 | - | 4 | de | 4 | 4 | 4 | de | 6 | 4 | Sekers | 4 | 4 | 4 | 0 | - | - | - | Some spike prevent west freint | 1 |
| 14.6 | - | - | ·- · | 4385 975 | - | 8-10 | de | | O.Artico | - | - | - | - | | - | 1908 | 2 | 0 | 5- | - | - | | 1 |
| 4.7 | CREASO | | Hel Seasoned PEN TANK | 74 | - | 7.456 | 1905 | Elsbury, Ho | 2.8+9. | - | - | - | - | Sellers | - | 1914 | 8.5 | 1.4 | - | - | - | Treplated Etyro after Laying | 1 |
| 411 | - | | Well Seasoned | 32 | - | 3.99 | do | 4 | do | - | - | _ | - | do | _ | 4 | 8.5 | _ | - | - | _ | do | |
| | CREOSO | | | 40 | _ | 5.755 | 4 | 4 | 4 | | 1 | | | 4 | _ | | | 0 | _ | | | 4 | |
| 4×2 | UNTREAT | TED | Wall Soa aned | 40 | | 3.733 | | ~ | | | _ | | 15.0 | ~ | | 4 | 85 | | | - | _ | | |
| 15.1 | 7:9'18' | Hown | Green | 95 | - | - | 1907 | Plains, Ment | N.P. | Grave! | Excellent | 72+85 | Sorew by-10 | See it marks | Heavy | 1915 | 8.3 | 99.0 | - | - | 7.63 | Rail changed to 85# in 1910 Patters - Walkywater tieplates | 2 |
| 15.2 | 6 | de | 4 | 94 | _ | _ | 4 | 4 | 4 | 2 | -6 | 85 | 10-14 Cot | Walkrupter | 4 | 4 | 4 | 00.0 | _ | - | 7.58 | _ | L |
| 16.1 | 4 | 4 | 4 | 108 | _ | _ | 4 | 4 | 4 | 4 | 4 | . 4 | got 4 | Sellers | 4 | 4 | 4 | 97.2 | | - | 7.78 | _ | |
| 16.2 | 4 | Sauri | 4 | 264 | _ | _ | 7.5 | Maywood, Wash | 4 | 4 | Good | 4. | Ost. | 4 | 1 2 | 4 | 4 | 67.0 | 2 | - | 1.10 | _ | |
| 16.3 | 4 | 4 | 4 | 46 | = | _ | 4 | 4 | 4 | 4 | 4 | 4 | SOLOW | 2 | 4 | 3 | 4 | 85.8 | | - | _ | | |
| 16.4 | 4 | 4 | 4 | 47 | _ | - | 4 | 4 | 4 | 4 | 4 | 4 | 30 mm | 4 | 1 | 4 | 6 | 85.1 | _ | 1 | _ | _ | |
| 16.5 | 4 | 4 | 4 | 100 | | - | 4 | 4 | 4 | 4 | 4 | 4 | Cot | 4 | 4 | 4 | 4 | 70.0 | _ | Same | - | _ | |
| 16.6 | 4 | 4 | 4 | 100 | _ | _ | 4 | 4 | 4 | 4 | 4 | 4 | cot | None | 4 | 4 | 4 | 99.0 | _ | 16 | - | _ | |
| 6.7 | 4 | Hemn | 4 | 91 | _ | - | 1907 | Plains Mont | 4 | 4 | Excellent | 4 | Cut | Sellers | 4 | 4 | 4 | 100.0 | _ | 1- | 756 | | |
| 32737 | | 100000 | | | | | | | | | | | | | | | | | | | | | |

14 29.70 2.40 1.00 1.10

2.48

29.70

1.00

2.00

4.

25.00

5.10 4

25.00

| - | | 5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 2/ | 22 | 25 | |
|------|----------|----------|---------------------------|------------------|---|----------|------------|----------------|----------------------|------------|---|-------|--------------------|--------------|---------|-------|------|----------|------------|------------------------|---------|-------------------------------------|-------|
| 16.9 | 72928 | Hewn | Seasoned | 32 | _ | - | 1907 | Plains Mont | N.P. | Gravel | Excellent | 72 | Sylen | Oak Wood | Hoavy | 1915 | 8.3 | 99.0 | Derailand | Bor | 7,63 | 23 | 24 |
| 6.10 | 4 | 4 | 4 | 90 | _ | - | 4 | 4 | 4 | 4 | 4 | 85 | at | Helhoupler | 4 | 1 | 4 | 94.4 | - | 7007 | 7.58 | | 25.0 |
| 6.11 | 4 | 4 | 4 | 90 | _ | _ | 4 | 4 | 4 | 4 | 2 | 4 | 4 | Sellers | 4 | 2 | de | 98.9 | _ | _ | 7.56 | | 1 |
| 6.12 | 4 | 4 | | 90 | _ | | 4 | 4 | 4 | 4 | 1 | 4 | 4 | de | do | 4 | 4 | 928 | - | 122 | 7.56 | | 4 |
| 6.13 | 4 | 4 | 4 | 180 | | _ | 4 | 4 | 4 | 4 | 4 | 4 | Fort | 4 | 4 | 4 | 4 | 98.9 | _ | State of | 7.78 | | 1 |
| 6.14 | 4 | 4 | 4 | 89 | _ | _ | 4 | de | 4 | 4 | 2 | 4 | Cot | N.P. 21 | 2 | 4 | 2 | 95.5 | 200 | Carl | | | 14 |
| 6.15 | 4 | Soun | 4 | 100 | | | 1906 | Maywood, Hack. | 4 | 4 | Good | 4 | Cat Down | Flat | 4 | 4 | 4 | 740 | - | Good Sight Dealy | 7.56 | | de |
| 616 | 4 | 6 | 4 | 58 | | | 4 | regnete, min. | 4 | 2 | 4 | 4 | Screw | None | 1 | 4 | 2 | 950 | = | Diazy | - | _ | 4 |
| 6.17 | 4 | 4 | 4 | 96 | | | Thorse, | 2 | 4 | 4 | 4 | 4 | 100.00.10 | Sellers | 1 | 4 | 70.7 | 69.8 | | - | - | | 4 |
| 5.18 | 4 | 4 | 4 | 91 | _ | | 4 | | 4 | | 100000000000000000000000000000000000000 | | Seat 7 | 1430.040 | 4 | 100 | 4 | DOMEST ! | - | J.44 | - | - | de |
| 5.19 | 4 | 4 | 4 | 550 | | 100000 | 4 | 4 | | 4 | 4 | 4 | Cot. | 4 | | 4 | 4 | 64.8 | - | Sight Decay | - | - | 16 |
| 5.20 | 4 | 4 | 4 | 99 | | - | de | 4 | de | 4 | de | 4 | THE REAL PROPERTY. | 4 | 4 | 4 | 4 | 73.4 | - | - | - | | 4 |
| :21 | 1 | 4 | , | 284 | - | - | 4 | 4 | 4 | | 4 | de | 4 | None Flat | 4 | 4 | 4 | 95.0 | - | Some Decay | - | Badly railworn | 4 |
| | 626-1028 | Heron | Upperled - | 64 | = | - | 4 | 1 de 1 | In 1984 Total Street | 2 | de | 4 | 4 | | | 4 | 4 | 71.8 | - | - | - | Ties cut in Summer months show | 4 |
| 23 | 4 | | | 3.552.553 | | - | 1910 | Deleunt Wash | WY.TH. RY | 4 | 4 | - | seren, | None | Light | 4 | 4 | 0 | - | - | - | 3 partly dreayed | 41.00 |
| 24 | ~ | de | Well Stagened | 100 | _ | - | 1906 | Magwed Hash. | N.P. | de | 2 | 85 | #Cot | Flat | Hesvy | 4 | 8.3 | 0 | - | - | - | Cannot locate | 25.0 |
| 5000 | 7'x8'x8' | - | Will S Busched | 89 | _ | - | 1905 | Steberry Mo | 28.19 | | | - | - | 7 | - | 1914 | 8.5 | 44.9 | - | - | - | Treplated 22 yes ofter laying | 5.1. |
| 25 | | Smit | - | 137 | - | - | 1911 | M Breger lower | C.K+st.P | Ginder | Good | 65 | Cut | None | Average | 1915 | 4 | 0 | - | - | - | | 0.1 |
| 26 | ZINC CHE | ORIDE - | BURNETT | 500 | - | - | 1912 | Greten SP. | 26 | do | Fair | 90 | 4 | Sellers | 1 | do | 5 | 0 | - | - | - | _ | 4 |
| 1 | 7"x9"x8" | Sown | Seasoned . | 217 | - | 0243 | 1895 | Yarious Places | 5.P | 10% Grave | - | 75-76 | Sist. | 50% Servis | Heavy | 1914 | 13 | 100 | All Couses | _ | | 1.16 -1 -11 - 10 . | |
| 2 | 4 | 4 | 1 | 4043 | | 4 | 1896 | 4 | 4 | 12 % Earth | _ | 4 | 4 | 1 | 1 | 4 | 13 | 100 | | | 11.34 | Arg. life stimated by Frest Service | 32.0 |
| 3 | 4 | 4 | 4 | 1941 | _ | 4 | 1897 | 4 | 4 | 2 | _ | 4 | 2 | 2 | 4 | 4 | 13 | 100 | 4 | - | 10.74 | 2 | - |
| 4 | 4 | de | 4 | 20536 | _ | 4 | 1898 | 4 | 4 | 2 | 1 | 2 | 4 | ~ | 1 | , | 14 | 1000 | 4 | - | 100.500 | ~ | 4 |
| 5 | 4 | 4 | 4 | 12951 | _ | 4 | 1899 | 4 | 4. | 4 | _ | 4 | 4 | - | 2 | 4 | 14 | 100 | 4 | - | 11.21 | 4 | 4 |
| 6 | 4 | 4 | 4 | 26/46 | | 4 | 1900 | 26 | | | 1 | | - | 4 | 2 | 4 | | 1 | 4 | - | 10.46 | 4 | - |
| 7.7 | 4 | 4 | 4 | 43681 | | 4 | 1901 | 1 % | 4 | 4 | | 4 | 1. 16 | | | 4 | 13 | 100 | 4 | - | 9.31 | 4 | 4 |
| 8 | de | 4 | 4 | 52204 | _ | 4 | 124.124.13 | 4 | 4 | | | - | 4 | 4 | 4 | 4 | 13 | 89.57 | 4 | - | 10.95 | 4 | 4 |
| 9 | 4 | 2 | 2 | 44056 | | 1000 | 1902 | 4 | 4 | 4 | | * | 4 | 4 | 4 | 4 | 12 | 99.3 | 4 | - | 9.45 | 4 | d |
| 10 | 4 | 190 | 4 | 42541 | - | 4 | 1905 | 90 | 4 | 4 | _ | 4 | 4 | 4 | 1 | 4 | 11 | 79.6 | 4 | - | 9.72 | 4 | 1 |
| 11 | 4 | 4 | 4 | 58983 | - | do | 1904 | de | 4 | 4 | - | 4 | 4 | 2 | do | 4 | 10 | 55.3 | 4 | - | 9.44 | 4 | 4 |
| 12 | | | 100 | 725-2630,000 (3) | - | | 2000 | 4 | 4 | 4 | - | de | 4 | 2 | 4 | 16 | 9 | 65.7 | 4 | - | 8.45 | 4 | 4 |
| 7.15 | 4 | 4 | 4 | 48478 | - | 4 | 1906 | 4 | 4 | 4 | - | 4 | 4 | 2 | 4 | 6 | 0 | 47.9 | 4 | - | - | _ | 4 |
| 2007 | 4 | 4 | 4 | 28673 | - | 4 | 1907 | 4 | 4 | 4 | - | 4 | 1 | 4 | 10 | 4 | 7 | 59.0 | 4 | - | - | _ | 6 |
| 7.14 | 4 | 4 | 4 | 44689 | - | 4 | 1908 | 6 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 | 6 | 23.4 | 4 | - | - | _ | 4 |
| 97.0 | | de | 4 | 62146 | - | 4 | 1909 | 4 | 4 | 4 | - | 4 | d | 4 | do | 4 | 5 | 7.4 | 4 | - | - | _ | 4 |
| 7.16 | 4 | 6 | 4 | 134774 | - | 4 | 1910 | 6 | 4 | 4 | - | 4 | 4 | 4 | 4 | 4 | 4 | 0.9 | 4 | - | - | - | 4 |
| 7.17 | 4 | 4 | 4 | 144449 | - | 6 | 1911 | 4 | 4 | 4 | - | 4 | 6 | 6 | 4 | 6 | 3 | 0 | 4 | - | - | _ | 4 |
| 18 | 4 | 4 | de | 142111 | - | 4 | 1912 | 4 | 4 | 4 | - | 4 | 6 | de. | 4 | 4 | 2 | - | 4 | - | - | _ | 4 |
| 19 | 4 | 4 | 4 | 154273 | - | 4 | 1913 | . 4 | 4 | 4 | - | 6 | 4 | 4 | 4 | 6 | 1 | - | 4 | - | - | _ | 4 |
| 20 | 4 | 4 | 4 | 112155 | - | 4 | 1914 | 4 , | 4 | 4, | - | 4 | 1 | 4 | 4 | 4 | 0 | - | 4 | - | - | _ | 4 |
| 21 | 4 | 4 | 4 | 90 | - | 0.786 | 1907 | Plans, Mont | H.P. | Gravel | Excellent | 25 | Screw | Sellers | 6 | 1915 | 8.3 | 11 | - | - | - | More railwarn then the antrested | 25.0 |
| 22 | 4 | 4 | 1100 | 107 | - | 4 | do | 16 | 4 | 4 | do | 4 | Street +Cot | 4 | 6 | 1 | 4 | 3.7 | - | - | - | No decay in 1915 | 4 |
| 23 | - | | Hell Soosoned | 91 | - | 0.262 | 1905 | Elsberry Ma | C.B.+9. | - | - | - | - | do | - | 1914 | 85 | 5.2 | - | - | - | Treplated Et yes ofter laying | 5.1 |
| 9.1 | ZINC C | - | E-BOILEL Seasoned ZENo | 61 | - | - | 1904 | Sheridan My. | - | 4 | Poor | _ | _ | | 4 | 100.0 | | - | Willed . | | | | |
| | ZINC CI | | E- ALLARO | | | | | - india . My. | ~ | | 7007 | | | - | Heavy | 1912 | 8 | 30 | Mishoway | - | - | All togo out in 1913 | 5.0 |
| */ | - | - | Well Seasoned | 41 | - | OZ9 Zing | 1905 | Elsberry Mo | 4 | _ | - | - | - | Sellers | - | 1914 | 8.5 | 1.8 | - | - | - | Treplated 25 yes after laying | 5.1 |
| | ZINC C | HIORI | E-BOILE | 50 | | | | | F | IR-GR | AND | | | | | | | | - | | | | |
| x2 | 6:6-10:8 | | unpected seasoned-lyr | 1 6 | - | - | 1910 | Delment, Work | WY+ NOD | | Good | - | cut | None | 1:11 | 1010 | , | | | | | 1.11 -1.1 | |
| | | 1000 | scusomed-141 | | | | 7,0 | Demoni, Polit | | IR-ORE | | - | cur | None | Light | 1914 | 4 | 0 | Good | _ | - | 2 partially split | 41.0 |
| | CARBO | LINEUM | - | | | | | | - | 1 | 10// | | | | | | | | - " | | - | | |
| x/ | | | Son Oried goda | 300 | _ | 1.2 | 1000 | Dodsons, Ore. | 1000.00 | Gravel | 0.1 | | _ | - | 11 | in | | | 100 | | | 1 | |
| - | 1 Prah | the Dans | las Fir | 300 | | 1.2 | 1101 | Louisons, Ure. | war. ny rate. | Oravel | Bood | 75 | - | - | Hovy | 1911 | 2 | 0.2 | - | - | - | | 3.0 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--------|----------|------------|-----------------|---------------------|----------|-------------|---------|-----------------|--------------|---------------|------|-------------------|-------|------------|-----------|------|-----|-------|-----------|--------|-------|--|------|
| | CREOS | | | | | 200 | | | PAR | | | L.A. | | | | | | | | | | | |
| 0 19.1 | 7×9×8' | samed | sundried 90de. | 1000 | - | 8.0 | 1909 | Dodsons, Ore. | O.W.Ry+N.Co. | Brave! | 600d | 75 | _ | - | HERVY | 1914 | 5 | 0.2 | - | - | _ | | 3.0 |
| | UNTRE | ATED | | | | | 1 | | | | | | | | 1000 | | 100 | | - | | | | 1000 |
| 20.1 | _ | Sawed | Sundried 90 do. | 1006 | - | _ | 1. | 1 | 1. | 4 | 4 | 1. | _ | _ | 10 | 1915 | 4 | 0 | - | _ | _ | 25% show surface decay | 1 |
| 20.2 | - | do | Not Seasoned | 1007 | - | _ | 10 | 4 | 10 | 1. | 4 | 1 | _ | _ | 16 | 16 | 4 | 0 | _ | Poir | _ | | 1 |
| | ZINC CH | LORIDE | -BURNETT | | | | 1000 | | 1000 | | 7.3 | | | | (- 6 6 7 | | | | | 10000 | 199 | | 1 |
| 21.1 | _ | sawel | Sandring 90de. | 977 | - | 0.25 | 1909 | 4 | 4 | 4 | de | 1. | _ | _ | 1. | 1914 | 5 | 0.4 | | _ | _ | | 1 . |
| 21.2 | - | 10 | Not Seasoned | 975 | - | 1 | de | de | 4 | 4 | 1. | 10 | _ | _ | 1. | 4 | 5 | 0.4 | _ | _ | _ | | |
| 21.3 | - | 16 | Sundried- 6me. | 1969 | _ | 1. | do | do | do · | 6 | 1 | 1 | _ | _ | 1. | 4 | 5 | 04 | _ | - | _ | | |
| 21.4 | - | - | _ | 45 Mi | - | - | 1903 | Nevada | O. Sh. Line | _ | _ | - | _ | Waltoupter | - | 1 | 11 | 55.0 | _ | 30/1/2 | 7108 | Wolheugler Tieplates shorten life | 32 |
| 21.5 | - | - | _ | 3.6 Mi | _ | _ | 10 | 4 | 4 | _ | - | - | _ | do | 2 | 1 | 11 | 50.0 | _ | _ | do | doe or 10 mounts | 1 |
| 21.6 | _ | _ | - | 18 Mi. | - | - | 1 | utoh | 4. | _ | _ | - | _ | _ | _ | 4 | 11 | 84.0 | _ | _ | 61012 | Soil seemed to neutrolize Znc Chloride | |
| 21.7 | - | - | - | 20.Mi | - | _ | 1 | Beppo, Utah. | 40 | _ | _ | _ | _ | _ | _ | 1 | 11 | 70.0 | _ | - | _ | Salty nature of subsoil odds from | |
| 21.8 | - | - | _ | 6. M. | _ | _ | de | Loy, Utoh | 10 | _ | _ | - | _ | _ | | de | 11 | 900 | _ | _ | 7 | Maximum life 12 years | |
| 21.9 | - | _ | _ | 46 Mi. | | | 1 | Hogup, Utoh | do | _ | _ | _ | _ | _ | _ | do | 11 | | - | Good | _ | Show some rot where gravel bolast used | |
| 21.10 | - | - | _ | 3 MI. | _ | _ | 1 | Ogden, Utoh | do | _ | _ | _ | _ | Waltenpter | _ | 10 | 11 | 97.0 | | _ | 6 | The remainder removed in 1914 | |
| 2/.// | - | _ | - | 300 000 | _ | 0.25 | 1905-14 | Main Line | 4 | _ | | _ | - | | _ | | | _ | | | 749 | 97% of failures due to decay | |
| | ZINC CH | LORIDE | | peryear | | 612.5 | - | | - | | | 0.00 | | | | | | | | | | The britains due to decay | |
| 221 | | | | 5414 | 1 | _ | 1903 | Brush-store | C.B.+Q. | 5/09 | _ | 15 Orig. | | Brtly | | 1912 | 9 | 54 | Al couses | | | Triangular ties | 5 |
| | SALT TR | EATED | GREAT SAL | Same Control of the | UTAH) | 22.5% | 50110 | Colo. | 0.2.7 9. | 3 | V | OS New | 200 | | | | | | W 222063 | 1- | | manyonar Fies | 3 |
| 3./ | _ | | 1 - | 15000 | _ | | | Groot Salt Lake | 0.9.2 | | 1000 | _ | | | 1 | 1904 | 5 | lana. | | | | Charles of the control of the | |
| | | | | 10.575 | | | | TABLE | | SUM-REL | 2 | | | | | //07 | | | | | | Show no advantage over untreated thes | 32 |
| | CREOSOT | E - FU | L CELL | 172 17 | | | | | | | | | | | | | | | | | | | |
| 11 | _ | - | - | 85 | _ | 9.83 | 1909 | Lines East | C.B.+9 | Onders Gravel | _ | 75-65 | _ | Partly | _ | 1914 | 5 | 0 | _ | _ | _ | | 5. |
| 12 | - | - | - | 48 | - | 4. | 1 | Lines West | 1. | do | _ | 40 | _ | Yes | _ | 4 | 5 | 0 | | _ | _ | | 5. |
| 1.3 | 6"8"8" | Sowed | - | 28 | 33.51 | 12.52 | 1905 | Say View + | G.HTS.A | _ | _ | _ | Seraw | _ | _ | 4 | 9 | 42.8 | 1 | _ | | Started to fail 1908 | 7. |
| 14 | * | 1 | - | 39 | 4 | 4 | 4 | do do | 4 | _ | _ | _ | _ | Glendon | * | de | 9 | 33.3 | _ | - | - | do 1912 | |
| 1.5 | 4 | 1. | _ | 45 | do | 1. | 1. | 4 | 4 | _ | _ | _ | _ | None | _ | 4 | 9 | 53.3 | | | | 10 1912 | |
| 16 | 4 | 4. | _ | 26 | 38.45 | 14.45 | 1 | 4 | 4 | _ | _ | _ | screw | _ | _ | 4 | 9 | 7.7 | | _ | | No steaming | |
| 7 | do | 4 | _ | 29 | de | 4 | 1 | 10 | 4 | _ | _ | _ | _ | Glendon | _ | 4 | 9 . | 17.2 | | (33) | | 4. | |
| 1.8 | 4 | 4 | _ | 53 | 10 | 4 | 1 | 1 | 4 | | | | | None | _ | 4 | 9 | 21.2 | | | | 4 | 1 |
| | CREOSO | | ISSANI | | | 122 | 1889 | | | | | | | Migriy Co. | | - | | | | - | | | |
| 2./ | _ | - | | 43 | _ | _ | 4 | Acific Mo. | St.L.+5.F. | | _ | _ | | | | 1. | 9 | 18.6 | - | - | _ | Includes Red Oak | 30 |
| 2.2 | - | - | - | 18 | _ | _ | 4 | 1. | do | | | | | | | do. | 9 | 27.7 | _ | | | do Incomplete record | " |
| | CREO SOT | E- NO . | STEAMING | | 100 | | - | | | | | | | 1 | | | | | 1 | | | 4 | |
| 3.1 | | | | 85 | 1 | | do | do | do | | 45 | | 1 | _ | _ | do | 9 | 3.6 | _ | | 24 | 2 | |
| | CREOSOTE | -LIVE S | TEAM IN SUP | 171-4730-510 | ED COILS | | | | | | 1 | | | | _ | 00 | 7 | 50 | _ | _ | | | |
| 4.1 | _ | | | 24 | _ | | 4 | 4 | 10 | | _ | _ 1 | - | - | | 10 | | 42 | | | 10.3 | | |
| | CREOSO | TE - BI | THEL | - | | | - | - | | | | _ | | | 1820 | 00 | - | 7.2 | - | | | 2 | |
| 5.1 | - | T | | 76 | - | | 4 | 1 | 40 | | | | | 100000 | | 3 | 0 | 1 | | | | | |
| , | CREDE | OTE - RU | FPINE | 70 | | - | - | 40 | | _ | | - | | | - | - | 9 | 1.3 | _ | - | - | 4. | |
| 6.1 | | | Stasoned Byra | 74 | 9.55 | _ | 1000 | St. Clair, Mo. | 2 | Const. | and | 25000 | 11 | Manage | Mari | 77 | | | | | | a.v.(| |
| 6.2 | | | | 247 | 9.88 | | 1000 | 31. Clair, 190. | 1. | Gravel | Good | 3500 \$ 35 Har | cut | None | Heavy | de | 8 | 0 | _ | Good | - | Rail changed 1909 | - |
| 6.3 | do | Winter Cut | | 1275-522 | 2000 | | de | | | 4. | 4 | 4 | de | 4. | 2. | de | 8 | 0 | - | do | - | do Includes Red aut | 130 |
| 0.5 | PRESER | 1 | NAMANO! | 40 | _ | - | 1905 | Pacific, Mo. | 4 | _ | - | - | | - | - | de | 9 | 7.5 | | - | - | - | |
| | | | DIAMOND V | 1000 | The same | The same of | | | 100000 | | | | | 100 | | | 320 | | | | | | |
| 7.1 | 74948' | Henn | | 500 | | | | Ph Hampet, + | | 5/09 | | | Cut | Glendon | | do | 7 | 0 | | Good | | | - 3 |

7° 8° Herm — 500 | ASSON VALOUR | TWY | Her, TAX.

O Maximum Pressure 100 ° per Sq. In. -Time 1.2 Hours

O Preliminary Scowning & Scours. - Prehamonery Vacuum 25 inch 1.25 Hours - Hoximum Pressure 100 ° per Sq. In. For 2.75 Hours

O Lett in Lake to an months - Preferation of saline constituents of water only 3 to 4 modes - Occasio on this were solvable

O Preliminary Pressure of 20 ° for 0.5 Hours-Maximum 011 Pressure 180 ° 4 175° F. For 2 Hours - Final Vacuum of 24 inch for 1.5 Hours

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | .10 | // | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|-------|------------|---------|--------------------------|-----------|--------|-----------|------|-----------------------|-------------|---------------|--------|-------|-------|-----------|-------|------|-----|------|------------|------|------------------|--|--------------|
| | TREAT | TENT N | OT KNOWN | , | | 1 | | | | | 1000 | | | | | | | | | - | - | | |
| 8.1 | 1000000 | | | 1 | - | | 1905 | Pocific, Mo. | 511 +SF | | | 1000 | | - | | | | 1.00 | | 1 | | | 200-0 |
| | UNTREA | TED | | | - | | 1100 | 120116,170. | 3/2.73.7. | | _ | - | - | - | - | 1914 | 9 | 100 | _ | - | - | - | 30.00 |
| 9.1 | Diring. | | | 100 | | 1000 | 1000 | 1.34 5.4 | 40-0 | Content from | | 00 | | - 1 | | 100 | 100 | | - , | | | | |
| 92 | | _ | | 11.000 | - | | 1000 | Lines Fost | C.B.+9. | Burnt Clay | - | 75.85 | - | Partly | - | de | 5 | 87.2 | Not | - | - | | 5.00 |
| | | - | | 54 | | _ | 10 | Lines West | do | 4 | - | do | - | Yes | - | de | 5 | 80.8 | de | - | - | - | 10 |
| 9.3 | | - | _ | 31 | _ | - | 1908 | 2 . | 10 | Grave/ | - | 90 | - | Oscurves | - | 1 | 6 | 100 | do | - | - | Track elevated 1910 Allout in 1911 | do |
| 94 | 6.8.8' | Sawed | _ | " | _ | _ | 1905 | SON LOOK, TEX | 6.H.+S.A | - | - | - | Seren | - | - | 4. | 5 | 100 | 10 | - | 2.6 | | 7.00 |
| 9.5 | | - | _ | 16 | - | - | 1905 | do | 4 | _ | - | - | - | Glendon | - | 1 | 3 | 100 | de | - | 2.4 | | do |
| 9.6 | _ | - | - | 14 | - | - | 80 | - | - | _ | - | - | - | Hone | - | do | 3 | 100 | do | - | _ | | do |
| | ZINC CA | LORIDE | - BURNET | 7 | | | | | 10000 | | | | | | | | | | | | | | |
| 10.1 | _ | - | _ | 75 | - | 0.5 | 1909 | Lines East | C.B.+ 9. | Charles Grave | - | 75.85 | - | Portly | - | 10 | 15 | 6.6 | Roty Split | _ | - | | 5.00 |
| 10.2 | - | _ | _ | 12 | - | do | 1911 | 1. | 1. | Gravel | - | 75 | - | wall wint | _ | do | 3 | 0 | _ | _ | _ | | 10 |
| 10.3 | | _ | _ | 43 | - | 10 | 1909 | Lines West | 10 | Burnt Clay | _ | 75.85 | _ | Yas | - | de | 5 | 20 | Rot | _ | | | do |
| 10.4 | 6.8.8' | Sawed | - | 40 | 0.7285 | 0.2758 | 1905 | Son Leon, Tex. | 6.H.+5.A. | _ | _ | 1- | Scren | - | _ | 1 | 9 | 800 | _ | _ | 20 | Arg. Life estimated by Forest Service | |
| 10.5 | do | de | _ | 45 | do | 4 | 1 | do | do | _ | _ | - | _ | Glendon | _ | 4. | 9 | 93.2 | _ | | 7.0 | d. | 100 |
| 10.6 | de | do | _ | 44 | do | do | 10 | de | do | _ | _ | _ | _ | None | | 4 | 9 | 79.5 | N. C. | | 6.7 | | 100 |
| 10.7 | do | 4. | _ | 32 | 0.8107 | 0.3047 | 10 | do | do | | | _ | Seren | _ | | | 9 | 875 | | | 7.3 | | 20 |
| 10.8 | 1. | do | _ | 34 | | 4. | 1. | 10 | 4. | _ | | | _ | Glender | | 1 | 9 | 920 | | | 7.0 | 1 51 11000 | 16 |
| 10.9 | do | 4 | _ | 49 | 2 | 10 | do | do | 4. | | | | | None | | 1 | 9 | 89.0 | | | | do Failure started 1909 | 10 |
| -250 | ZINC CH | EOSOTE | - | 1 | | | | | | _ | | | | 7,000 | - | | , | 27.0 | - | - | 7.3 | do do | 10 |
| 011.1 | 62828' | Sawed | seground lyr | 12 | MIZING | 0.27 zinc | 100 | , | - | | | | | | | | | | | | | | |
| 011.2 | do | | Action to the control of | 16 | | aggereo. | do | de | de | _ | - | - | Screw | - | _ | 4. | 9 | 25.0 | _ | - | - | | 7.00 |
| 011.3 | 1.35 | 4 | 4 | | 1- | 1 | 1 | 4. | 4 | _ | - | _ | - | Glendan | - | 40 | 9 | 56.3 | - | - | - | The second secon | 10 |
| 011.3 | 40 | 40 | 4 | 17 | 4 | 10 | 4 | 4 | do | - | - | - | - | None | - | 10 | 9 | 35.3 | _ | - | - | Started to fail 1910 | 4 |
| | ZINC CR | EOSOTE | -CAND | | | | | | 100 | | | | | | | | | 100 | | 107 | | | |
| 12.1 | _ | - | - | 4/4 | - | 30 Creo. | 1909 | Lines East | C.B.+Q. | Burnt Clay | - | 75-85 | - | Partly | - | do | 5 | 1.0 | Split | - | _ | 2% more split or broken | 5.00 |
| 12.2 | _ | - | | 232 | - | do | do | do West | 4. | 10 | - | do | - | Yes | _ | 10 | 5 | 05 | _ | - | - | | de |
| 12.3 | _ | - | _ | 194 | - | do | 1908 | to East | 4 | Grave/ | - | 90 | - | 1. | - | 10 | 6 | 0.5 | - | - | _ | | 1. |
| | 1000000000 | 0.0000 | | | | | | | | - 6 | UM - 5 | WEL | T- | | | | | | | | | | - |
| | ZINC CR | EOSOTE | - ALLARDY | CE | | | | | | | | | | | | | | | | | | | |
| 13.1 | - | - | _ | 10 | - | 30 Crea. | 1902 | Browmont, Tex. | 6.C. 75.F. | Sand | Poor | 60 | cut | None | Heary | 1912 | 10 | 65 | _ | _ | _ | started to fail 1905 | 11.00 |
| | ZINC TA | NNIN- V | VELL HOUS | SE | | | 100 | | | | | | | 1000 | | | | | | | | 0.22 .2 .2 , , , , , | 11.00 |
| 14.1 | | _ | _ | 51 | - | _ | 1882 | Topeka, Kos. | 4.T+5.F | _ | _ | - | _ | _ | _ | 1891 | 9 | 80.5 | _ | _ | | | 2.00 |
| - | | | | | | | 100 | , , | | | UM- | - | | | | 1011 | 1 | 20.5 | | | | | 2.00 |
| | WOOD TA | R CREO | SOTE | | | 160 | | | | | | | | | | 1 | | | | | | | |
| 15.1 | 1 | _ | | 18 | _ | _ | 1902 | Phila. + Chester | A. lines | | 1000 | - | | _ | _ | 1914 | 12 | 44 | 0 | | 5 | 4.4 | |
| | CREOSO | E | | | | | | | 74.45.45 | _ | | | | | _ | 1114 | 12 | | Decoy | _ | 3 | Not complete | 20.10 |
| See. | - | | 1.7 and 1 | 8 | | | | | | | | | | | | 1 | | | | | | | |
| 125.2 | CREOSO | | | | | | 1 8 | | | | | | | | | | | | | | | | 400+1.00 |
| 16.1 | | _ | | 1.650,000 | | 6.3 | 1904 | | ****** | | | | | | | | | | | | | | |
| | CREOSO | | | ,,000,000 | | 0.0 | 1704 | - | C.C.C. +SIL | _ | _ | - | - | - | _ | 1908 | 4 | - | _ | - | Estante 16yrs | Included oak | 1.00 |
| See | | | | | | | | 1 | | | | | | 1 | | | | | | | | | 1 |
| | Beech Inc | | ord A. | | Nos 2. | | | | 100 | 2002 9 | | | | | | | | 1 | | | | Constitution of the second | |
| 0/7./ | - | | | 203 | - | 5.0 | 1909 | Kankokee, III. | 1.6. | Old Rock | - | 90 | - | Fednemy | - | 1915 | 4 | 0.49 | Broken | Good | - | Continuous Angle bars | 12.00 |
| | CRUDE O | 12- 801 | LED | | | | | | 1 | | | | | | | | | | | | | | |
| 18.1 | - | _ | - | | - | - | 1902 | Bearment Tax. Div. | 6.C. + 5.F. | Sond | Poor | 60 | Cut | None | Heavy | 1912 | 10 | 0 | _ | - | - | | 11.00 |
| | | | | | | | | | | | | | 9 | | | | 120 | | | | | | ALC: UNKNOWN |

[@] Preminary Air 75 per Sq. In for 0.5 Hours - Max Oil Pressure 175 per Sq. In. for 2 Hours Final Vacuum 24 Inch for 20 Mmutes

| , 1 | SOTE | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | " | 12 | 13 | 14 | 15 | 160 | 17 | 18 | 14 | 20 | 11 | 22 | | 23 | - | 2. |
|-----|----------------------------------|---|--------------------------|-----------------------------|---|------------------------------|------------|--|-----------|-------------------------|----|----------------|----|--------|-----------------------------------|------|---------|-------|----|------|----|---|----|---|--------------------------|
| 7.2 | | | Air Seasoned 40 40 40 | 390 280 432 14 497 | | 5.00 5.00 5.00 5.00 | 1907 10 | Hetchinson Ko. Ale Plevne Ko. Kotchinson ca | #.T. S.F. | Feck Cinters Pock | | 90 85 90 | | 7/4 +9 | 1 94 181 3003 486 4 704 161 | 1919 | 7 7 7 5 | 0 0 0 | = | 1111 | - | = | | | 45. 45. 45. 45. |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | - | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q Prelin 2) Prelin 3) Tons | | | | | | | - | | * | | | | | | | | | | | | | | | - |

| 1 | 2 | 5 | 1 | 5 | 6 | 7 | 8 | , | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 2 | • | 24 |
|--------|---------|----------|---|---------|---------------------------|---|------|-------------------|---------------|---------------|-------|-------|----------|---------|-------|------|------|------|----|----|--------|------------------------|-------------|------|
| | YULCAN | ZED | The Lot | | - | | 1 | | | | | | | 1 24 | | | | | | | | | | |
| 019.1- | _ | Sawed | Seasoned 6.40. before y after treatment | 100 | _ | _ | 1897 | Mortal 4 Va. Dir. | N. S. | _ | _ | _ | _ | _ | _ | 1914 | 9 | 100 | _ | _ | 4.5 | Started to fail 1889 . | Allout 1906 | 16.0 |
| 0 19.2 | _ | Hewn | recolment | 100 | _ | | 4 | 1. | do | _ | _ | _ | _ | _ | _ | 1. | 0 | 100 | _ | - | 2.85 | 1. 1899 | 1. 1905 | 6 |
| 0 19.3 | _ | Sawed | 46 | 25 | _ | _ | 4. | 1 | 4 | _ | _ | _ | _ | Servis | _ | 1. | 12 | 100 | _ | _ | 6.72 | do 1899 | do 1909 | 1 |
| 0 19.4 | | Hewn | 4. | 25 | _ | | 4 | 4 | do | | | 2 | | -6 | _ | 4 | 8 | 100 | _ | _ | 2.96 | do 1899 | 4 1905 | 1 |
| | ZINC CI | | E - BURNET | | | | | | - | | 1 | | | | | 1 | | | | | | | | - |
| 500 | | | 43 104-2 | | | | | | | | | | 177 | | | | | | | | | | | |
| 20.1 | 1 | 1 | 1 2000 | 3 | 1 | | 1902 | a 1 72- | G.C.+S.F. | Sand | Poor | - | cut | None | Heavy | 1912 | 10 | 35 | | - | 1 | started to fail | - 1011 | 11.0 |
| 20.2 | | 100 | _ | | | 1 | THUL | Bayment Bx. | 1.6. | Contract. | ,00, | | 201 | none | muy | 1712 | | 33 | | | 10112 | Started to run ! | | 33. |
| 20.2 | ZINC CA | - | _ | | _ | - | _ | | 7.6. | | | - | | | - | _ | _ | _ | | - | IUNIE | | | 33. |
| | ZINC CA | 1203011 | 1 | ****** | | 1.5 | 1904 | | 000-01 | | | 1 | 200 | 12.5.1 | | 1908 | 4 | | | | Fehre | 1-11-01 | | 100 |
| 21.1 | | | | 695,324 | - | 0.5 | 1904 | | C.C.C. TSH.L. | _ | _ | - | _ | _ | _ | 1900 | 7 | 0 | - | | Estim. | Inoludes Oak | | 1.0 |
| | | | WELL HOU | | | | | | | | | | | | | | 1 | - | | | | 1111111 | | 1 |
| 22.1 | - | Hewn | sessened 6 Mo. behire + after Trailment | 100 | 4.22 | - | 1897 | Norfolk Va. Div. | N. 5 | _ | _ | - | - | Servis | - | 1914 | 15 | 51 | - | - | 13 | started to fail in | | 16,0 |
| 0 22.2 | - | do | ** | 25 | - | - | 1 | 1 | - | | - | - | - | 10 | - | 4. | 15 | 64 | - | - | 16 | 1. | 1907 | 1 |
| 022.3 | - | Sawed | de | 100 | 1.56 | - | 1 | 4 | 4 | _ | _ | - | - | 4 | - | 1- | 17 | 77 | - | - | 14 | 4. | 1905 | 1 |
| 0 22.4 | - | do | do | 25 | - | - | 16 | 4 | 4 | | | 1- | - | do | - | 10 | 15 | 100 | - | - | 12 | do | 1903 | 1 |
| | | | | | | 1 | | TA | BLE 1 | GUM- | TUPL | 10 | | | | | | | | | | | | - |
| | CREOSO | TE - FUL | L CELL | | | | | | | | | | | 1000 | | 1 | 1 | 4 | | | | | | 1 |
| 11 | - | - | - | 97 | - | 10.99 | 1909 | Lines East | 6.8.79 | Burit Clay | _ | 75.85 | - | Portly | - | 1914 | 5 | 0 | - | - | - | - | | 5.0 |
| 1.2 | - | - | - | 54 | - | de | 1. | Lines West | 40 | 10 | - | 10 | - | Yes | - | de | 5 | 0 | - | - | - | | | de |
| 1.5 | 6 8 8 8 | Sawed | seasoned lyr | 35 | 29.82 | 11.21 | 1905 | San Laon, Tax. | 6.H.+5.A | _ | - | - | Sien | - | - | 1. | 9 | 24.5 | - | - | - | _ | | 7.0 |
| 1.4 | 1. | 4 | 4 | 36 | 4. | 1. | 1 | do | 4 | _ | _ | - | - | Glendon | - | do | 9 | 30.6 | - | - | - | | | 1 |
| 1.5 | de | de | de | 44 | de | 10 | 1. | 4. | 4. | - | - | - | | None | _ | 4 | 9 | 38.6 | - | - | - | | | |
| 316 | 4 | 4 | 4. | 23 | 35.14 | 13.21 | 4 | 1 | 4 | - | - | - | Screw | - | - | 4. | 9 | 4.5 | - | - | - | _ | | do |
| 0 1.7 | 4. | | 4 | 50 | 1. | 4 | 4. | de | 4 | - | _ | _ | _ | Glenden | _ | 1 | 9 | 167 | _ | - | - | | | 1 |
| @ 1.8 | 1. | 1. | 4 | 35 | 1. | 1. | | 4 | do | _ | - | - | - | None | _ | 10 | 9 | 28.6 | _ | - | - | | | 1 |
| | UNTRE | ATED | 120 | | | | | | | | 103 | | | | | - | | | | | | | | |
| 2.1 | _ | | - | 88 | _ | _ | 1909 | Lines East | C.B+Q. | Onders Grand | _ | 75.85 | - | Partly | _ | 1914 | 5 | 978 | _ | - | _ | | | 5.0 |
| 2.2 | _ | _ | | 47 | _ | _ | 1. | Lines West | 1. | do | _ | do | _ | Yes | _ | 10 | 5 | 94.2 | _ | _ | _ | | | de |
| 025 | 6.8.8 | Sowed | | 13 | _ | _ | 1905 | 1 | GH.TS.A. | _ | _ | _ | Screw | _ | _ | 1909 | 4 | 100 | _ | _ | 2.6 | | | 20 |
| 024 | 4 | 10 | _ | 15 | _ | _ | do | do leon, Tex | 4 | | | | | Glendon | _ | 1910 | 5 | 100 | _ | - | 2.6 | | | di |
| 025 | 1 | 1 | | 14 | 100 | | do | 4 | 4. | | | | 1000 | None | 100 | 16 | 5 | 100 | | | 2.5 | | | do |
| | | HLORIO. | E - BURNE | | | | 00 | | 4, | | - | 17/ | 7-30 | ,,,,,, | 1 | | | | | | 2.0 | | | 1 " |
| 31 | 2000 | 1 | T DOMME | 76 | - | 0.5 | 1000 | Lines East | 1000 | Onders Brave! | - | 75.85 | | Partly | | 1914 | 5 | 1.32 | | | | | | 5.0 |
| 3.2 | | | | 41 | | 1.0 | 1907 | Lines West | 1.014 | Burnt Clay | | 10 | | Yes | | 4 | 5 | 200 | | | | | | 10.0 |
| 0 3.3 | 6.6.8 | | | 30 | 0.5955 | 0.2239 | 1905 | | GH. 75.A | - | _ | 133 | Seren | 100 | | 2 | 1000 | 366 | | | 70 | started to fail in | 1010 | 1 |
| | | Samed | | 1000000 | | | 1400 | Senteon, Tox. | | | | - | A COUNTY | 4.1 | 1000 | | 9 | | | - | | | | 7.0 |
| 3.7 | 4 | de ' | _ | 37. | 4 | 1 | 130 | 4 | 4 | _ | _ | - | - | Glandon | - | 40 | 9 | 89.2 | | - | 70 | do | 1910 | 1 |
| 0 3.5 | | 4 | - | 46 | 40 | 10 | 4 | 4 | 4 | - | - | - | - | None | - | 20 | 9 | 91.5 | - | - | 7.0 | do | 1910 | 1 |
| 003.6 | do | de | | 22 | 0.6224 | 100000000000000000000000000000000000000 | 10 | 4 | 4 | _ | 1 | - | Scrow | - | - | 4. | 9 | 100 | - | 1- | 72 | 10 | 1910 | 1 |
| 0037 | 4. | 4 | - | 33 | - | 10 | 1. | 4 | 4 | - | - | - | - | Glendon | - | 4 | 9 | 90.9 | _ | 1- | 79 | . 4. | 1910 | 1 - |
| 0038 | | do | - | 30 | de | do | de | 1. | do | _ | - | - | - | None | _ | 10 | 9 | 85.5 | - | - | 8.0 | 10 | 1911 | |
| | ZINC C | REOSO | TE - CARL | 1 | | | | | 4.3.01. | | 1 - 1 | | - | | - | 200 | | | | | | | | 1 |
| 4.1 | - | - | _ | 435 | - | 3.0 Creo. | 1909 | | C.B.+ 9. | Burnt Clay | - | 75.85 | - | Partly | - | 1914 | 5 | 1.0 | - | - | - | - | | 5.0 |
| 4.2 | | - | _ | 237 | - | 1. | 40 | Lines West | 1. | 1. | - | 1. | - | Yes | - | 4 | 5 | 0 | - | - | - | 2% split and bro | | 1 |
| 0 4.3 | 6.8.8 | Sawed | - | 12 | 0.59552inc 0.538 Creo. | 2.02 Creo | 1905 | Sen Loon, Tax | B.H. 75.A | - | - | - | seren | - | - | 40 | 9 | 855 | - | - | 24 | Started to fail in | 1910 | 7.0 |
| 44 | | do | - | 14 | de | de | do | 4 | 4. | | - | - | - | Glendon | - | 4 | 9 | 520 | - | - | - | 1. | 1911 | 1 |
| 045 | · do | do | _ | 16 | 10 | 4 | do | 1 | 4 | _ | - | - | - | None | - | do | 9 | 75.0 | _ | - | 79 | do | 1912 | 1 |

| , 1 | 2 | 5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|------|----------------------|------------|---|---------|-----|-------------|-------|---------------------------|------------|---------------|----------|-------|-----|--------------|----------|---------|------|-------|-----------|------------------|-------|--|-------|
| - | - | | | | | | | | | HACKBE | FRRY | | | | | | | | | | , | | |
| | | | | | | | | | | 1 | | | | | | | | | | | | The second second | 1 |
| 40 | ZINC CH | LORIDA | E - BURNE | | | 300 | | Gilletto, Nyo. | C.B+Q. | | _ | _ | _ | _ | _ | 1910 | 16 | 75 | _ | Fair | - | Ideal Climate | 33.00 |
| 5.7 | - | - | | 60 | - | | 1014 | Silvene, nyo. | 2.274. | | | | 199 | | | | | 1 | | 131 | | | 6 |
| | ZINC C | REOSOT | E - CARD | | | os zine | | | | a | and | 85 | | None | Heavy | 1914 | 3 | 0 | _ | Perfect | - | | 5.0 |
| 6.1 | - | - | _ | 45 | - | Jocreo. | 1911 | Utica Neb. | TAP | E 12 F | JEMIN | | | 1,21,2 | , | | | | | 1 | | | |
| | | | | | | | | 1 | INDI | EIL | LITZU | 6/1 | | | | 75.5 | | | | | | | |
| | CREOSO | TE - F | ULL CELL | | | The Part of | 100 | | | Aides Come! | | 15:45 | | a. v. | _ | 1914 | 5 | 0 | | _ | _ | | 5.00 |
| 11 | - | - | - | 87 | - | 7.87 | 1909 | Lines East | C.B.+Q. | Burnt Clay | _ | 100 | - | POINTY | - | 4 | 4 | 0 | | | | - | 1. |
| 1.2 | - | - | - | 50 | - | 4. | 1910 | 4. | 4 | Grave/ | - | 90 | - | All | | | | 0 | | | | | 1. |
| 3 | _ | - | _ | 17 | - | . 4 | 1911 | do | 4 | | - | 75 | - | inter joints | | 4 | 3 | 1750 | | | | | de |
| 14 | _ | - | _ | 46 | - | 4 | 1909 | Lines West | 4 | Onders Brand | | 85.90 | - | Yes | - | 4 | 5 | 0 | - | - | | | 1. |
| 5 | - | _ | _ | 52 | _ | 4 | 1910 | 4 | do | Lyons Stone | Yery Dry | 90 | - | do | - | do | 4 | 0 | - | - | | | |
| | CREOS | TE | | | | 100 | 100 | | | | | | 1 | | | 1000 | | 1 | | | 200 | Not within but railent and in use as | |
| /x/ | 64848' | Hown | | 400 | - | - | 1880 | Mediney, Mass. | KY. NH.+H | Grave/ | Good | 56 | Cut | - | MainLine | 1914 | 22 | 100 | Rail Cut | - | 20 | Not ratten but raileut one in use as sign post - Last removed in 1912 | 38.00 |
| 9000 | 8 -0 -0 | // | | | _ | _ | 1888 | | | _ | _ | - | - | _ | - | 1911 | - | 100 | - | - | 20 | | 5,0 |
| X2 | 1 | | | 5000 | _ | _ | 1872 | Chicago, I II. | C.R.I.+P. | Grave/ | - | - | - | - | Heavy | 1882 | 10 | 50-70 | Ray recay | Bor | - | Not properly treated | 2.4 |
| ~ 3 | - | | ENTANK | 0000 | | | | | | | | E33 | | | 100000 | | 100 | | | | | Market Street | 1 - |
| | | | | 53 | - | 14.5 | 1907 | James ville Wis | CTN.W. | Gravel | 6000 | 90 | aut | Halhaupter | Light | 1915 | 8.5 | 0 | - | 669 | - | 38% Partly decayed | 26. |
| 2.1 | 6.8.8 | Hewn | Herious Sabson. | 33 | - | 1 | 1,,,, | Companie / III | 2000 | 21012 | 200 | | | | | 1 | | | | 100 | 1 | | |
| | CREOS | | FELEY | | | | 1869 | | 68+9 | 1 | _ | _ | _ | _ | _ | 1908 | - | - | - | - | 5-12 | Failure - Ory rot | 1.3 |
| 3./ | - | - | | 25000 | - | _ | 1001 | - | 2.0.4 | | 1 | | | | | 1 | | | | | | | |
| | MERCU | AIC CHI | PRIDE - KY | | | | | | 0-2 | | | | | | - | 1908 | _ | _ | - | - | 10:14 | Splintered | 1.0 |
| 41 | _ | - | _ | 100,000 | _ | - | 1884 | - | B.TM. | _ | - | | | | _ | ,,,,, | 1 | | | | | The state of the s | |
| | SALTS | (BARS | CHALL HA | SSELMAN | (NY | | 000 | - 1 | | | March 1 | | 2.1 | None | _ | 1910 | 6 | 100 | _ | - | 3.25 | Ang. Life estimated by Ferret Service | 11.0 |
| 5.1 | _ | - | _ | 100 | - | - | 1902 | Beaument, Rec | 6.C. 75 F. | Sand | _ | 60 | Cut | Home | | 7,50 | " | 1.00 | | | 2,000 | 872 007 18 1403 | 2000 |
| | UNTE | EATEL | 1 | | | | 100 | the same | 10000 | airden and | | 75.85 | | a | | 1010 | - | 844 | 1 | 1 | | | 5.0 |
| 6.1 | - | - | _ | 85 | - | - | 1909 | Lims East | 6.8.40. | Cinders Grand | - | 75.85 | - | Party | _ | 1914 | 5 | 1000 | | 15 | | 24% decayed but not removed | 1 |
| 6.2 | _ | - | - | 25 | - | - | 1910 | 1. | 10 | Gravel | _ | 90 | - | All | - | * | 4 | 7.8 | _ | - | | 24 and get out has your over | 1 |
| 63 | _ | - | _ | 47 | - | - | 1909 | Lines West | do | Burnt Clay | - | 40 | - | Yes | - | 14 | 5 | 70.2 | | | | | 1 |
| 6.4 | _ | - | _ | 30 | - | - | 1910 | 10 | 1. | Lyons Stone | - | 90 | | | - | 1 40 | 4 | 15 | _ | - | 1- | | 1 |
| See | cedar II | dex Nos | 1.5 and 1.6 | | | | 1 | | | | | | 100 | 1 | 100 | 1 | | 1.7.3 | | | | | 11.0 |
| 6.5 | | 1 _ | _ | 101 | _ | _ | 1902 | Beaumont, Tex | 6.C.75.F. | Sand | Poor | 60 | Cut | None | Heavy | 1909 | 2 | 100 | - | 1- | - | | 11.0 |
| 0.0 | | | 10000 | | | | | | | | | | | 1 | | | | | | | | | |
| | | | | | | 5 | 1 | | | | | | | | | 1 | | | 1000 | 1 | | | |
| | 6.8.8 | Same | Sooked 29Ho | 20 | _ | 1 - | 1907 | bnesville, Wis | C.TNW. | 10 | de | 90 | de | do | Light | 1915 | 8.5 | 90 | Decay | Austly Occase | 65 | | 26. |
| 6.6 | The same of the same | | | | NE: | | 1 | 4 | 1. | 4 | de | 4 | de | 4 | de | 4 | - | 100 | 1 | - | 6.8 | | 1 |
| 6.7 | - | 1. 4 | Statemen Volle | | _ | | 14 | 10 | 10 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 4 | - | 6.6 | _ | 1 |
| 6.8 | 10 | Fall House | 1 | * | 100 | | 1 | 4 | 16 | 4 | 1. | 1 | 4 | 4. | 4 | - | 4 | 100 | 16 | | 6.6 | - | - |
| 6.9 | 1. | Water Ja | do 25M | | - | | 1 | 4 | 4 | 4 | . 4 | 4 | 4 | 1 | do | 1 | 4 | 100 | 16 | - | 6.45 | | - |
| 6.10 | 1 | Fall do | de 26M | | - | | 100 | 100 | 4 | 1 | 4 | 4 | de | 4 | de | 4 | 4 | 95 | do | BAL | 6.3 | - | |
| 6.11 | 1 | Minter de | | | _ | _ | 1 | 4 | 10 | 4 | 1 | 1 | de | 4 | 1 | 1 | 1 4 | 170 | 10 | do | 7.14 | | |
| 612 | 1 | 1. 1 | | | - | - | do | 40 | -0 | - | - | " | " | | | 1 | | 1 | | 100 | 1 | | |
| | ZINC | CHLORI | DE - BURI | 1 | | 1 | 1 | | | Conders Grave | | 25.85 | - | Portly | _ | 1914 | 5 | 14 | - | - | - | | 5. |
| 7.1 | - | - | - | 70. | - | 0.5 | 1901 | Control of the same | | | | | | All | | 1 | 1 | 0 | - | - | - | - | |
| 7.2 | - | - | - | 56 | - | 1. | 1910 | and the second second | 4 | Gravel | | 90 | | 1 500 | | 11 (55) | 5 | 0 | - | _ | - | | |
| 7.5 | - | - | - | 43 | - | 1. | 1909 | The state of the state of | 1. | Burnt Ckay | _ | 85-90 | | Yes | | do | 100 | 0 | | | | | |
| 7.4 | - | - | - | 45 | - | 1 | 1910 | | 1. | Lyons Stone | Very Dry | 90 | - | 4. | - | 00 | 4 | | | Soun | J _ | Found on old siding not in use for | 2. |
| 75 | - | - | - | - | - | - | 1850 | Vermont | Ver. Cent. | - | - | 1- | - | - | - | 1882 | 1000 | | | 3000 | | 20 years | . 1. |
| 76 | - | - | _ | 11595 | - | - | 1896 | Lines West | Po System | - | - | - | 1- | - | - | 1905 | 8 | 22 | - | | | | . 1 |
| 7.7 | | - | - | 7/3 | - | - | 1898 | 1 10 | 1 | - | - | 1- | - | - | - | do | 1 | 8 | - | | _ | | 1 / |

| | | | | | | | | 9 | 10 | " | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 20 | 25 | 242 |
|-------|----------|--------|---------------|-------------------|---|--|---------------|-------------------|--|---------------|----------|---------------------------|----------|------------------------|--------|----------|-------|----------|-----------|------|-----------|---------------------------------------|-------|
| 1 | 2 | 5 | 4 | 5 | 6 | 7 | 8 | | | | -/ | | | | | 1905 | 6 | 0 | _ | - | - | | 1.30 |
| 7.8 | | _ | - | 2048 | - | - | 1899 | Western Lines | Pa. System | - | 100 | | | | | 4 | 5 | 0 | _ | _ | - | | |
| 29 | _ | - | - | 521 | - | - | 1900 | _ | _ | - | | | | | | 4 | 9 | 0 | _ | - | - 1 | | 1. |
| 710 | _ | _ | | 698 | - | - | 1896 | Chicago, Ill. | Pa. System | _ | - | | | | | 4 | 8 | 30 | - | - | - | | de |
| 7.11 | 23 | _ | - | 3499 | - | - | 1897 | - | ~ | - | _ | | (5) | | | (00) | 7 | 0 | _ | _ | _ | | 4 |
| 712 | | _ | _ | 275 | - | - | 1898 | _ | 4 | - | - | - | = | - | | 4 | 6 | 0 | _ | | - | | 1. |
| 713 | | _ | _ | 1000 | - | - | 1899 | - | 1. | - | - | - | - | | | 1906 | 18 | _ | | _ | _ | | 1 |
| 7.14 | _ | _ | - | 5934 | - | 0.22 | 1888 | Evanston, Ill. | CTN.W. | -, | - | - | - | | | 1912 | 10 | 30 | _ | _ | _ | started to fail 1908 | 11.00 |
| 7.15 | | | _ | 100 | _ | 0.62 | 1902 | Beaumont, Tex. | G.C.+ S.F. | sand | Por | 60 | Cut | None | Heavy | 0.000 | 10.74 | 50 | | | | 46% more decoyed | 1.0 |
| | | | | 2.184.336 | _ | 0.50 | 1905 | - | C.T.N.W. | - | - | - | - | | | 1908 | 5 | 16.0 | | 60% | | | 26.0 |
| 7.16 | 67878' | Henn | preled and | 25 | _ | 0.26 | 1907. | bnesville, Wis. | 1. | Grave/ | Good | 90 | Cut | Walkoupter | Light | 1914 | 7.5 | 1.750.00 | Detay | | | | 5.0 |
| 7.17 | 61818 | nemi | seasoned BNo. | 8 | _ | - | 1909 | Ticono, III. | C. B. 74. | - | - | - | - | - | - | 4. | 3 | 0 | | - | | some decay on top - sides and | 2.4 |
| 7.18 | - | | Scusomen | 2000 | _ | _ | 1866 | Chicago, Ill. | C.R.I.+P. | Fine Oravel | - | - | Cut | - | Heavy | 1881 | 15 | 25 | | Fair | | Rail worn 78" | 1 |
| 7.19 | - | - | _ | 2000 | | _ | | Mouch Chunk | CRR ANU | Stone | - | - | - | - | _ | 1883 | 16-17 | - | - | Good | | null work 78 | - |
| 720 | | | - | 705 | | | | | 1 | | | | | | | Jan. | | | | | | Avg. 1. 1 estimated by Farest Service | 11.0 |
| | ZINC CR | FOSOTE | -ALLARD | | | 0.24 Zinc | 1900 | Beaument Tex | 6.C.+ S.F. | Sond | Poor | 60 | out | None | Heavy | 1911 | 9 | 100 | - | - | 9 | Avg. Tik estimated by rates Seine | 11.0 |
| 8.1 | - | - | _ | 50 | - | 3.00 Creo. | // | | | | 1 | | | | | 1.0 | | 1 | | | | | 5.0 |
| | ZINC CR | FOSOTE | - CARD | 20 | | 052116 | iano | Lines East | 0.8.+0 | Onders Bravel | - | 75.85 | - | Partly | - | 1914 | 5 | 0 | - | - | - | 1% split | 1000 |
| 9.1 | - | - | _ | 511 | - | 30 Creo | 1910 | | 4 | Gravel | _ | 90 | - | All | - | 1 | 4 | 0 | - | - | - | | - |
| 9.2 | - | - | _ | 298 | _ | 1 | 1909 | | 4 | Anders Gravel | _ | 75.85 | _ | Yes | _ | 4 | 5 | 0 | - | - | - | | 1 |
| 95 | - | - | | 277 | - | 4 | 60000 | The second second | 1 | Lyons Stone | Very Dry | 00 | _ | 10 | - | 1 | 4 | 0 | - | - | - | | 1: |
| 9.4 | - | - | - | 210 | _ | 1 | 1910 | ACCOUNTS OF | ALCOHOL: | Sand | Poor | 60 | cut | None | Heavy | 1912 | 10 | 88 | - | - | 5 | Any. life estimated by Forest Service | 11. |
| 9.5 | - | - | | 49 | - | 0.3Zinc | 100000 | Beaumont, Tex | The Control of the Co | 1 | 1 | 0.5550 | 5% Corre | AS Mallead | 100000 | 1915 | 3 | 0 | = | Good | - | Includes Hemlock | 6 |
| 9.6 | 6"x8"x8 | Heyn | Seusyned | 1000 | 三 | 20 Creo. | 1911 | Sardwell Wis | CH TSAR | Bravel | 6000 | 100 | - | do | Heory | do | 5 | 0 | - | - | - | | |
| 9.7 | SINC AN | | DE OIL | , | | 1.6 | 1 | | | . , | | | 1 | Except under joints | 100 | 1912 | 1 | 0 | _ | - | - | | 5 |
| 10.1 | _ | - | - | 5 | - | - | 1911 | Boders, Ill. | C.B. +Q. | Grave! | - | 75 | | under joins | | 111 | | 100 | | | | | |
| | ZINC TA | WHIN - | WELLHOU | SE | | | | | 1 | | | | 0 30 | | 1 | 1905 | 8 | 30 | - | - | - | | 1. |
| 11.1 | | _ | _ | 1287 | - | - | 189 | _ | 5C.+5.R. | | - | - | - | - | | do | 15 | 100 | | - | 10.71 | | 29 |
| 11.2 | | | _ | 200 | - | - | 1892 | : Honna | Pa. Systen | Rock | - | - | - | - | - | 1898 | 12 | 63.1 | Various | 1 | 11.8 | | 2 |
| 11.3 | | | - | 2/850 | _ | - | 1886 | 6 W. Mo. River | C.R.I. + P. | Various | - | - | - | - | - | 1896 | 7 | 0 | | | _ | | |
| | | - E | _ | 200 | - | - | 1891 | Pittsburg Pa | A. Systen | _ | - | - | - | - | - | 1 4 | | 100000 | | | | Includes Tamarack | 1 |
| 11.4 | | | | 72194 | _ | - | 1886 | 9/ Illinois | C.R.I.P. | Poor | Poor | - | - | - | - | 1 | 7-12 | 70 | necau | | 11 | 4 | 1 |
| 11.5 | | | | 564/73/ | - | 0.50 | 1880 | 5 - | 1. | - | - | - | - | | - | 1908 | - | | RailCut | | A DEED TO | | |
| 11.6 | _ | - | _ | 150,000 | | 0.30 | 1000 | | U.P. | - | - | - | - | - | - | do | - | - | Roll Work | - | 12-15 | Raplocement began in 1909 | 11 |
| 11.7 | - | - | - | 100 | | 0.54 | | 2 Berumant, Tex | G.C.T.S.F | - | - | - | - | - | - | 1911 | 8 | 21 | - | - | 1 | | 2 |
| 11.8 | | - | molet + | The second second | | 0.532 | 0.30 | | | Gravel | Good | 90 | Scren | Sollers | Light | 1915 | 7.5 | | - | - | - | | 1 |
| 11.9 | 6"18"18" | Henn | | | | 0.564 | 20 1.5000 | do | 1 | do | 1 | 1 | 4 | do | de | 1 | 4 | 0 | - | 1- | - | 7.5 % | |
| 11.10 | do | do | do 16.5 | W 100 CO | - | The state of the s | | | 1. | 4 | 1 | do | 4 | de | do | de | 1. | 0 | - | - | 1- | 7.0 /0 | |
| 11.11 | de | do | 10 16M | | - | 0.408 | | 7 | 1 | 1 | 1 | de | de | 4 | de | de | de | 0 | - | - | - | 1010 | 1 |
| 11.12 | do | do | do 151 | C Dist | - | 0.464 | | do | 1 | 1 | 1 | de | de | de | do | 4 | do | 0 | - | - | - | 19.9% | 8 45 |
| 11.13 | do | do | do 14 h | | - | 0.426 | - | | 1 1 2 | de | 1 | 4 | de | 1 | de | de | 4 | 0 | - | - | - | 21.9% | |
| 11.14 | do | do | do 121 | | - | 0.376 | 100 | 4 | 4 | 1000 | 1 | 00 | do | - | do | 4 | de | 100 | - | - | - | - 10.0% ds | |
| 11.15 | 1 | do | do 111 | . 41 | - | 0.340 | 6 1 6 7 | | de | do | | 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 | do | de | de | | 1773 | - | - | - | 8.5% | |
| 11.16 | do | 10 | de 111 | 10 | - | 0.384 | 2 0 | 1 23 | do | 40 | 1 | ~ | | de | 1 | 46 | | | _ | - | - | 4.0% de | |
| 11.17 | 10 | do | Spronted 17/ | 10 24 | - | 0.720 | 9 0 | 4 | 10 | di | de | 4 | de | 1 | 100 | 11 12 12 | | 1 | _ | | - | 5.0% 1 | |
| 11.18 | do | 10 | do 161 | 10. 25 | - | 0.60 | de | de | 4 | de | do | - | * | 4 | 4 | 4 | | 1600 | _ | - | - | 12.8% de | |
| 11.19 | 10 | 1 | 1 121 | 17 | - | . 0.592 | 2 4 | do | do | do | do | 100 | de | 1 | 4 | 46 | 11 | | | | _ | 12.0.0 | |
| | | 10 | Souked \$ 17 | 601 | - | 0.516 | 2 1 | 1 | 4 | 16 | do | de | 06 | do | 26 | de | | 100 | | | | . 12.5% Partly decayed | |
| 11.20 | | 1 4 | Statement in | | - | 0.46 | | | 1 | 4 | 16 | de | de | do | 1 0 | de | | 1 | | | | 15.0% 4 | |
| 11.21 | do | | do 16.51 | | _ | 0.56 | | . 4 | 1 | 4. | 1 | 1 | 1 | 10 | 1 4 | 1 | | 0.000 | - | 7 | | 7.5% | |
| 11.22 | 10 | 10 | 1. 161 | 11 11 12 22 | - | 0.42 | Total Charles | GP LIE To Jones | 1 | 1 | do | do | do | do | 1 4 | 1 40 | 1 4 | 0 | - | 1- | | 7.0 % | |

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| ı | 11.24 | 6.8.8 | Hewn | Relad + 15 Ma | 40 | | | 8 | chaesnile His | | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
| | 11.25 | 4 | 1 | 4 14 M | 1111111 | _ | 0.5/2 | 1907 | , | C.7 N. W. | 6 ravel | 6000 | 90 | Cut | Sallers | Light | 1915 | 7.5 | 0 | - | 6000 | - | 5.0% Partly decayed | 26.00 |
| . | 11.26 | 2 | | | 40 | - | 0.428 | 1 | de | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | U | - | 1 | - | 10.0% | 4 |
| | 11.27 | 2 | 1 2 | 4 1216 | 40 | - | 0.452 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 20 | 26 | 4 | 4 | 5.0 | - | 4 | - | 5.0% . 4 | 4 |
| | 11.28 | | " | 4 11Ms | 40 | - | 0.352 | 46 | 40 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | - | 4 | - | 10.0 % d. | |
| | 10.000 | 4 | 1 | de 11.Mo | 39 | - | 0.448 | de | 4 | 4 | 4 | 4 | .4 | 4 | 4 | 4 | 4 | 4 | 0 | - | 4 | - | 2.5% 4 | . 4 |
| - 1 | 11.29 | de | de | Seamoned 17 Mo | 25 | - | 0.728 | 4 | 4. | 4 | 4 | 4 | 16 | 4 | 4 | 4 | 4 | 6 | 0 | _ | 2 | - | 4.0% 4 | 4 |
| - 1 | 11.30 | 4 | 1 | L 1416 | 25 | - | 0.584 | de | Ø6 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 0 | _ | 6 | - | | 4 |
| - 1 | 11.31 | 4 | 4 | do 10 No | 40 | - | 0.512 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | do | 0 | - | 6 | _ | 7.5% Partly decoyed | 4 |
| | 11.32 | 4 | 4 | Souther 16Mo | 44 | - | 0.476 | 4 | 4 | de | de | 4 | 4 | 4 | 4 | do | 6 | 6 | 2.0 | _ | 4 | _ | 16.0% & | 4 |
| | 11.33 | de | 4 | Scotomed 17No. | 39 | - | 0.516 | 4 | 4 | 4 | 4 . | 4 | 16 | 4 | Holoupter | 4 | 4 | 4 | 0 | _ | 4 | _ | 17.9% 4 | 4 |
| | 11.34 | de | de | de 16 Mo | 41 | - | 0.556 | 4 | do | 4 | 6 | 4 | 6 | 4 | de | 4 | 4 | 4 | 0 | - | 4 | _ | 4.4% 6 | 1 |
| | 11.35 | de | 4 | 4 15 No | 45 | - | 0.452 | 4 | 26 | 4 | 4 | 4 | 6 | 4 | de | 4 | 4 | de | 0 | _ | 1 | | 7.77 | 2 |
| - 1 | 11.36 | 4 | 4 | do 1410 | 39 | - | 0.448 | 6 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 0 | _ | 2 | _ | 26.0% Partly decayed | 7 |
| - 1 | 11.37 | 4 | 4 | 4 13Me | 40 | - | 0.388 | de | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 1000 | 4 | 0 | _ | 2000 | | 5.0% 4 | |
| | 11.38 | 4 | 4 | 4 12Mo | 40 | _ | 0.376 | de | 4 | 4 | 4 | 4 | 1 | 4 | 4 | - | 4 | 7 | 100 | | 4 | | | 4 |
| | 11.39 | 6 | 4 | de 11110 | 40 | _ | 0.428 | 4 | 6 | 4 | 4 | 4 | 1 | -, | 4 | 4 | 4 | 1 | 2.5 | - | 06 | - | 25% 4 | 4 |
| | 11.40 | 4 | 4 | 40 10 Mo | 40 | _ | 0.388 | | 4 | 1 | 7 | 1 | 4 | * | | | de | 4 | 2.5 | - | 6 | - | 2.000 | 6 |
| | 11.41 | 4 | 1 | Unacide co | 25 | | 0.564 | 4 | | 4 | *, | 4 | 4 | 4 | 4 | 4 | 16 | 6 | 0 | - | 4 | - | 17.5% 4 | . 4 |
| | 11.42 | 1 | 1 | September 1 | 21 | | 10 To | 4 | 4 | 4 | | 4 | 4 | de | 4 | 6 | 4 | 4 | 0 | - | 16 | - | 32.0% % | de |
| | 99991.54 | | 2 | de 13 No | 170000000000000000000000000000000000000 | - | 0.484 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | - | 4 | - | 4.8% 4 | 4 |
| | 11.43 | de | 46 | 6 10Me | 40 | - | 0.544 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 0 | - | 4 | - | 7.5% % | 6 |
| | 11.44 | | . 4 | Seasoned 15 Mo | 49 | - | 0.500 | 4 | 26 | 4 | 4 | 4 | 4 | 6 | 4 | 6 | 4 | 4 | 0 | - | 4 | - | 8.2% 4 | de |
| | 11.45 | 4 | 4 | Sessines 10 Mo | 53 | - | 0.356 | 4 | .4 | 4 | | 4 | 2 | 4 | 4 | 4 | 6 | 4 | 0 | _ | 4 | - | 26.5% de | 6 |
| | 11.46 | 4 | 4 | 04 | 51 | - | 0.356 | 4 | 4 | 4 | 4 | 4 | 46 | 4 | 4 | 4 | 4 | 4 | 0 | - | 4 | _ | 392% 2 | 1 |
| | 11.47 | 4 | 4 | 4 | 51 | - | 0.436 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | _ | 4 | _ | 17.6% 6 | 4 |
| - 1 | | | | | | | | | - | | HEMI | OCK- | WE | STE | FRN | | | | | | - | | | - |
| | 1015 | UNTREA | TEO | 1 | | | | 1 | | | | | | | | | 200 | | | | | | | |
| | 15.1 | 7 49 48' | Hown | Green | 100 | - | - | 1907 | Maywood, Mash | N.P. | Grave/ | Good | 85 | Cut | Plates | Heavy | 1915 | 8.5 | 100 | Decay | Poor | 7.30 | <u> </u> | 25.00 |
| 18 | 12.2 | do | Sawn | do | 103 | 1 | - | 1906 | do | do | do | do | 85 | do | Note | do | 0.73326 | 8.5 | 100 | _ | | 7.30 | | |
| | | | | | 111111111111111111111111111111111111111 | | | - | | | | | | | 7 1 | | | 0.0 | | | - | 7.30 | | do . |
| - | - | CREASE | 75 - 6 | ULL CELL | | | | | TABL | E 13 | HICKO | RY-P | IGN | VT | | 4 | | | | | | | | |
| | 1.1 | CHEUSU | 12-76 | LL CELL | | | | | -1 1 -1 | 44.4 | | | | | | | | | | | | 1 | | |
| | 1.2 | | | seasoned lyr | 4 | - | - | 1000 | Blanding, Ill. | | Shendonerand | - | 90 | - | All | - | 1912 | 2 | 0 | - | - | - | _ | 5.00 |
| | 1955 W. C. | - | | after treatment | 14 | - | - | do | Borr, Colo. | 4 | | Yery Dry | 40 | - | do | - | 06 | 2 | 0 | - | - | - | (| d |
| | 1.3 | - | - | _ | 6 | - | - | 46 | Hanover, Ill. | 4 | Sheridan Grand | - | de | - | do | - | de | 2 | 0 | _ | - | - | | 4 |
| | | UNTREAT | 50 | | | X D | | | | | | | | / | | | | | | | | | | |
| 1 | 2.1 | C. (50.50 to 10.00 to | 20 | | | Marine (| | 1000 | 1 | | Carles Grand | | 20.00 | | | | | | 000 | | | | | |
| | 0.000000 | - | - | _ | 65 | - | - | 1900 | Lines East | 4 | Onders Graval Burnt Clay | - | 25:05 | - | Partly | - | 1914 | | 53.8 | - | - | - | | 4 |
| | 2.2 | _ | - | - | 30 | - | - | 4. | do Wast | de | 4, | - | de | - | All | - | 26 | 5 | 70.0 | - | - | - | - | 2 |
| - 1 | 2.3 | _ | - | _ | 9 | - | - | 1910 | do Fast | d | Brard | - | 90 | - | de | - | 4 | 4 | 14.0 | - | - | - | | 4 |
| | 2.4 | - | - | _ | 15 | - | - | 4 | & West | 4 | 4 stone | - | do | - | 4 | - | 4 | 4 | 0 | - | - | - | 9-split-6 Birtly rotten and split | 4 |
| | 1 | | | | | | | | | | No. | | - | | | -1 | | | | | 3 | | | |
| | | ZINC CH | LORIDE | - BURNE | 7 | | | | V 7 | | | | | | | | | | | | | | | |
| | 3.1 | _ | - 1 | _ | 4 | _ | 05 | 1910 | Blanding Ill | 1 | Grave | | 90 | _ | All | | 1912 | 2 | 1 | | | | | |
| | 3.2 | | | Seasoned lyr | 15 | | 2 | | Barr, Colo | 2 | Mons Stone | and the same of | 4 | 1000 | 0.000 0.000 | - | 10000 | 2 | 0 | | - | _ | | 4 |
| | 33 | | = | ores treatment | 5 | | 2 | | | | - / | 3019 | 100 | - | 2 | - | 2 | 2 | 1000 | - | - | - | _ | 6 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | " | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|--------------|----------|--------------|------------------------------|-------|-----|---------|------|------------------------|-------|---------------|-----------|-------|-------------|-----------------------|-------|------|------|------|-----|----|--------|--|-------|
| | ZING CH | EOSOT | E-CARD | | 100 | | | | | | | | | 100 | | | | | | | | | |
| 41 | _ | I - | _ | 164 | _ | 0.52ine | 1909 | Lines East | C.B+Q | Conders Grove | _ | 15.85 | _ | Betty | _ | 1914 | 5 | 1.0 | _ | | _ | | 5.00 |
| 4.2 | - | - | - | 89 | _ | 4 | 1 | de West | do | de | _ | 85.90 | _ | All | _ | 6 | 5 | 0 | | | | | 2 |
| 43 | - | - | - | 20 | - | 4 | 1910 | 4 Fast | 4 | Gravel | _ | 90 | - | 4 | | 1 | 4 | 0 | _ | _ | - | | 1 |
| 4.4 | - | - | - | 16 | - | 4 | do | 4 West | 4 | Lyon Stone | Very Dry | 90 | _ | 4 | - | 4 | 4 | 0 | _ | - | - | _ | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | 100000 | | | | | | - | TABL | - 14 | JUNIPL | R | | | | | - | | | | - | | | |
| 01.1 | CREOSO | Hewn | SPESONED IONO | 25 | | 8 | 1897 | Horfall to Ove | N.+S. | 400 | | | | a. h. 10 | | | | | | | | 4. h. t 6:1 10.00 | 5.3 |
| The state of | | The state of | Aled 5 Ma after treatment | | | | 1000 | 1 | | - | _ | _ | _ | One half Tieplated | - | 1914 | 15 | 44 | - | - | 17 | Harted to fail in 1909 - 2º corre | 16.00 |
| 1.2 | | do | do | 75 | - | 8 | - | do | do | - | - | - | - | 20 | - | 1 | 15 | 4 | - | - | - | Started to fail in 1911 | 4 |
| | UNTRE | ATED | | | | | | | | | | | | | | | | | | | | | |
| 02.1 | - | Hewn | seasoned 13 MG | 50 | - | - | 1897 | Harfolk 16 DIK | N.+5 | _ | _ | - | _ | _ | _ | 1914 | _ | 100 | _ | | | Started to fail 1901 Allout 1908 | 1000 |
| 922 | | de | Sassoned /4 Hs | 100 | - | - | 1 | 4 | 4 | - | - | _ | _ | Falt | | 4 | 15 | 87 | | = | 12.9 | do 1908 | 16.00 |
| 02.5 | - | 4 | 4 | 100 | - | - | 4 | 2 | 4 | - | - | - | - | Lystdips | - | 2 | 15 | 78 | _ | = | 13.2 | do 1908 | 4 |
| 024 | - | 4 | 2 | 100 | - | - | 4 | 4 | 4 | _ | _ | - | - | - | _ | 4 | 15 | 77 | - | - | 13.9 | do 1908 Ties covered Below | 2 |
| 0 2.5 | - | 26 | 4 | 100 | - | | 4 | 4 | 4 | - | - | - | Golde | - | _ | 1 | 15 | 75 | _ | - | 13.0 | storled to tail 1907 gof the in | 2 |
| 0 2.6 | - | 4 | 4 | 100 | - | - | 4 | 26 | 4 | - | - | - | _ | - | - | 4 | 15 | 73 | _ 1 | - | 13.2 | Storted to tool 1907 for the in aspect speed to ends of the following the top of the | 2 |
| 0 2.7 | - | 4 | 4 | 120 | - | - | 4 | 4 | 4 | - | - | - | - | - | - | 4 | 15 | 29 | - | - | 140 | | 4 |
| 0 2.8 | - | 4 | 4 | 100 | - | - | 4 | 4 | 4 | - | - | - | _ | - | - | 6 | 15 | 62 | _ | - | 14.6 | started to fail 1905 | 4 |
| 02.9 | - | de | 4 | 125 | - | - | 4 | 6 | 4 | - | - | - | - | Servis | - | 4 | 13 | 100 | | - | 11.3 | do 1905 alloutique | |
| 02.10 | - | 1 4 | 2 | 200 | - | - | 1 | 4 | 4 | - | - | - | - | - | - | 4 | 15 | 81 | - | - | 12.2 | 4 1901 | 4 |
| | | | | | | | | | | LAR | CH | | | | | | | | | | | | |
| | ZINC CHE | ORIDE | - IMPRESA | VATED | | | 7 | | | 27111 | Ĭ | | | | | | | | | | 1 | | |
| 3.1 | - | - | - | - | - | - | - | Swiss Hord Ost Bahn | - | - | - | - | - | - | · — · | - | - | - | - | - | 15-17 | - | 2.00 |
| | | 1000 | | | | | -1 | | | LAR | CH- N | VES: | TER | | | - | | | | | X | | |
| | UNTREA | TED | | | | | | | | | | | -/- | í l | | | | - | | | M | 3 | |
| 4.1 | 7"19"18" | - | Seasoned | 27 | - | - | 1907 | Hains, Mont. | N.P. | Gravel | Excellent | 85 | Serry | Woodent | - | 1915 | 8.33 | 100 | - | _ | 6.89 | 19 | |
| 4.2 | 4 | - | Great | 96 | _ | - | 4 | de | do | do | 4 | 6 | 1 | 4 | _ | 2 | 4 | 100 | | | 100000 | _ | 25.00 |
| 4.3 | 4 | - | Seasoned | 90 | - | _ | 4 | do | 4 | 6 | 4 | 4 | at | Wolfenter | _ | 200 | 1000 | 100 | 15 | | 6.89 | | 4 |
| 44 | 4 | - | Green | 91 | _ | _ | 4 | 4 | 4 | 4 | 2 | 4 | do | | | 1 | 4 | 100 | - | - | 7.15 | | do |
| 4.5 | 4 | - | Soosaned | 90 | - | - | 4 | 4 | de | 4 | 4 | | | Sellens | | 1 | 4 | | - | - | 7.15 | | 4 |
| 46 | 4 | _ | Green | 90 | | - | 4 | 4 | 4 | 1.84 | | 4 | de | Sellers | | 1 | 2 | 100 | - | - | 7.55 | | 4 |
| 4.7 | 4 | _ | Seasonal | 90 | - | _ | | 190 | | de | 4 | 5 | de | 4 | - | 4 | 4 | 100 | - | - | 7.52 | _ | de |
| 4.8 | 2 | _ | Green | 91 | | | 4 | 4 | 6 | de | 4 | 4 | 4 | 4 | - | 4 | 4 | 100 | - | - | 7.33 | _ | 4 |
| 49 | 4 | | | 90 | | _ | 4 | 26 | do | 4 | de | 4 | do seren | 2 | - | 4 | 4 | 100 | - | - | 7.36 | | 4 |
| 13/40Y.T | 1 2 | _ | Seasoned | 91 | - | - | 4 | ~ | de | 4 | 4 | 4 | rcot | 6 | - | 4 | 4 | 98.9 | - | - | 7.42 | _ | 4 |
| 4.10 | 4 | _ | Green | | - | 1 | 4 | 4 | de | 4 | 4 | 4 | 4 | 4 | - | 4 | 2 | 100 | - | - | 7.36 | _ | 4 |
| 4.11 | 4 | _ | Seasoned | 90 | - | - | 26 | 6 | 4 | do | 4 | 4 | Screw | 4 | - | 4 | 4 | 98.9 | - | - | 7.78 | - | 4 |
| 4.12 | 4 | - | Green | 92 | - | - | 4 | 2 | de | 4 | 4 | 4 | de | 4 | - | 4 | 4 | 98.9 | - | - | 7.78 | - | 4 |
| 4 4 | | - | Seasoned | 91 | - | - | 4 | 4 | de | 4 | 4 | 1 | 01 | NONAL | | / | | | | | 37000 | | |
| 4.13 | 4 | | Constants | | | | ~ | -4 | | | | 4 | Cut | 147.1621 | | - | 4 | 100 | - | - | 7.34 | | 4 |

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| / | 2 | 3 | 4 | 5 | 6 | 7 | 8 | - 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | - | | | |
|------|----------|---------|------------------|-------|----|----------|--------|----------------|---------|------------|----------|------|--------------|--------------|-------|------|-------|-----|----|------|-----|--|-------|
| | ZINC C | CHLORI | OE - BURI | YETT | | | | 1 1 9 | | | | | ., | - | 1 | 1 | 10 | 14 | 20 | 21 | 22 | 25 | 24 |
| 5.1 | 7 .9 .8 | Hemn | seasoned | 101 | - | 0.786 | 1907 | Plans Mont | NP | Graval | Faciliat | 85 | Sien | 2/600 | Herry | 1914 | 7.3 | 0 | _ | 1 | 1 | Parket condition | 1 |
| 5.2 | 1. | 4. | 4 | 92 | - | do | 4 | * | 4 | de | 4 | do | 2007 | 4 | 4 | 4. | 1 | 27 | _ | - | - | d. | 25.0 |
| | | | | | | | | | | TABLE ! | 5-MAR | PLE | | | | | | | | | | | |
| 0 | CREOSOT | | | | | | | | | | | | | | | | | | | | | | |
| 91.1 | 6.8.18. | - | 6-16 Nos | 50 | - | 12 | 1911 | Hartford, Wis. | CHISH | Gravel | Good | 90 | Serew | Plot | Heavy | 1914 | | 0 | - | - | - | 14% Forthy spit | 27.0 |
| 1.2 | 4 | - | 4 | 50 | - | 1 4 | 4 | 4 | .4 | 16 | 4 | 4 | Cot | None | 4 | 4 | 3 | 0 | - | - | - | 14% 4 | 4 |
| | CREOSOT | E - RUL | PING | | | | | | | | | 0.18 | | | | | | X | | | | | - |
| 02.1 | 6:8:8' | _ | Seasoned Hos | 50 | _ | 49 | 1 | , | , | , | | , | | -// | , | | | | | | | | |
| 2.2 | de | - | 6-10 1905 | 50 | _ | 12 | 4 | 4 | 4 | 2 | 4 | 4 | Screw Cut | Flat None | .4 | 4 | 3 | 0 | - | - | - | 15% Portly split | 1 4 |
| - | | | | | | | - | ~ | ,,, | ~ | | ~ | 201 | /MA | - ~ | 4 | 3 | 0 | - | - | - | 15% 4 | 4 |
| | ELM Ind | | | | | | | | | | | | | | | | | | | | | - | 1 |
| 1 | 217 110 | m 6 | i' l | | | | | | | | | | | | () | | | 9 8 | | | | | - |
| | OIL, SEA | II-REFI | NED-FULL | CELL | | | | | | | | | | | | | | | | | | | |
| 3.1 | 6"8".8" | _ | Segrand 6-18 Mas | 50 | - | 12.6 | 1911 | Hartford, Wha | CHISTA | Gravel | Good | 90 | Screw | Flot | Heavy | 1914 | 5 | | | | | 4 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. | 1 |
| 3.2 | 4 | - | d. | 50 | - | 12.6 | 4 | 4 | . 4 | 2 | 4 | 4 | Cut | None | 4 | | 3 | 0 | - | - | - | 8 % 15% Partly Split | 27.00 |
| 3.3 | 4 | - | 4 | 50 | - | 0.5 | 6 | 4 | 4 | 4 | 1 | 4 | 4 | de | 4 | 4 | 3 | 0 | - | _ | = | 2 | - |
| 54 | de | - | .4 | 50 | - | 0.5 | 4 | de | 4 | 4 | 2 | 4 | Ann | Flot | 4 | 2 | 3 | 0 | _ | _ | | 2 | 1 |
| 3.5 | 4 | - | 4 | 50 | - | - | 1867-8 | Mrch Chank | CRA SKU | Rock | - | - | _ | _ | | 1883 | 16-17 | _ | | Good | _ | | 2.40 |
| | UNTRE | TEO | | | | | - | | | | | | | | | | | | | | | | 2.40 |
| 4.1 | 628'28' | _ | Not seasoned | 50 | _ | - | 1911 | Hartend Wis | CHASIP | 6 iorel | Good | 90 | Strew | Flot | Houry | 1914 | _ | | | | | 22 2 1 1/ 1 - 1 | |
| 4.2 | 4 | - | 4 | 50 | - | _ | d. | 4 | 4 | 2 | 4 | 4 | cot | None | 4 | 1814 | 3 | 0 | _ | _ | - | 92 % Portially desyed | 27.00 |
| | | 22. 72 | 13.0.25 | | | | | V 7 | | | | | | ,,,,,, | V | ~ | 9 | | - | | | ~ | ~ |
| 100 | ZINC CR | EOSOT | - CARD | | | | | | | | | | | | | | | | | | | | |
| 5.1 | 7.9.9. | - | - , | 596 | - | = 1 | | Brehmer No | 4 | Burnt Clay | - | 85 | - | None | - | 1914 | 6 | 0 | _ | _ | _ | 2 Curve-Loid in out | 0.00 |
| 052 | 2 | - | Seasoned 6-10 No | 50 | - | 0.5 2 Me | 1911 | Hortford # 5. | 4 | Gravel | Good | 90 | Seren | Flat | Horry | 4 | 3 | 0 | _ | ~ | _ | 16% Portly Split | 27.00 |
| 5.3 | 4 | - | 4 | 50 | - | 4 | 4 | * | 4 | 6 | 4 | 90 | Cot | None | 4 | 4 | 3 | 0 | - | - | - | de | 4 |
| | ZINC CH | E0507 | E-TWO A | OVEME | NT | | | | | | | | | | | | | | | 1 | | | |
| 6.1 | 6"48"8" | _ | Secured 6-18 Me | 50 | _ | _ | 4 | 4 | 4 | 4 | 4 | 4 | Seron | Flot | 4 | 1 | | 1 | | | 100 | | |
| 62 | 4 | - | 4 | 50 | - | - | 4 | * | 4 | 4 | 4 | | | Nene | 4 | 4 | 3 | 0 | _ | - | _ | 2% Party drond 8% partly spit | 4 |
| | ZINC TA | NNIN- | WELL HOUS | E | | | | - 3 | | | | | | | | | | | | | | ~ | |
| See | ASH Indi | | | | | | | | | | | | | | | . 3 | | 1 | | | | | |

0- Max Pressure 195# per Sq In-Max Temperature 130°F Time 2.5 Hours Final Vacuum 20 Inch Timo 15 Minutes.
8- Prelim Pressure 90 for Sq In for 30 Min-Max Pressure 140 for Sq In at 180°F for 3.83 Hours - Final Vacuum 28 Inch for 15 Minutes.
8- Prelim Vacuum 26 for 30 Minutes - Hos Pressure 200 ff per Sq In at 180°F for 3 Hinutes.
8- Prelim Vacuum 26 for 30 Minutes - Hos Pressure 200 ff per Sq In at 190°F for 3 14 Hours.
8- Prelim Vacuum 26 Inch for 1 Hour- Now Pressure 195 for Sq In at 190°F for 4.8 Hours. - Final Vacuum 26 Inch for 30 Minutes

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

| | | | | | | | | TABLE | 16-1 | MAPLE 1 | HARD | 1 | | | | | | | | 1 | | | |
|--|------------------------------------|-----------------------|---------------------------------------|---|---|---|--|--|---|--|----------------------------|--|-------------|--|---|---|--------------------|---|--------------|-----------------|---|---|---|
| | CREOSO | TE - FO | LL CELL | | | 1000 | | | | | | 198 | | - | 13 10 | | 8.3 | | - | | | | |
| 1.1 | _ | | | 30 | _ | 5.92 | 1909 | Lines East | C.B. 79. | Cinders Gravel | - | 75.85 | - | Partly | _ | 1914 | 5 | 0 | - | - | - | | 5.00 |
| 1.2 | _ | - | | 18 | _ | 1. | 10 | de West | 1. | 1. | - | 85-90 | - | Yes | _ | 1. | 5 | 0 | - | - | _ | | 4 |
| 1.3 | _ | _ | _ | 50 | _ | 1 | 1910 | de East | 1. | Gravel | _ | 90 | _ | All | - | 1. | 4 | 0 | _ | - | _ | | 1 |
| 1.4 | _ | _ | _ | 15 | _ | 1 | .4 | de West | 4 | Lyans Stone | Very Dry | 90 | _ | Yes | _ | 1. | 4 | 0 | - | - | _ | | 4. |
| 1.5 | | | | 15 | - | 1 | 1911 | 1. East | 1 | Gravel | _ | 75 | _ | Except ions | _ | do | 3 | 0 | _ | _ | _ | | do |
| | UNTREA | TED | _ | | | | | | | 2000000 | 10000 | 100 | | and joss | | | | 1 | | 1 | | | |
| 2.1 | Dirinen | 120 | A | 51 | | - | 1909 | do East | 4 | Conders Gravel Burnt Clay | | 75-85 | | Bertly | | 10 | 5 | 96.0 | _ | _ | _ | | 1 |
| 2000 | | _ | _ | 30 | | | 1 | do West | 1 4 | Burnet Clay | | 85.90 | | Yes | | 1 | 5 | 86.6 | | | _ | | 1 |
| 2.2 | 15-20 | 13.7 | - | 24 | | | 1910 | & East | 4 | Bravel | | 90 | | All | | 1. | 4 | 80.0 | _ | _ | _ | | 1 |
| 2.3 | - | _ | | 0.000 | | | , | | | | Va 0 | 90 | | Yes | | 10 | 4 | 20.0 | | | | | do |
| 2.4 | | | | 15 | - | _ | 100 | de West | 4 | Lyons Stone | Very Dry | 10 | | 123 | _ | | 7 | 20.0 | | | | | ~ |
| 21/2 | ZINC CH | LORIDE | - BURNET | 300 | | | | | | | | | | 411 | | 1912 | | 0 | 1 - | _ | and I | 1% split | 1 |
| 3.1 | - | - | - | 30 | - | 0.5 | 1910 | Hanover, Ill, | 1. | Sheridan Bravel | - | 90 | - | All | _ | | 2 | | 1000 | | | 1 / Spin | - |
| 3.2 | _ | - | | 20 | _ | 40 | 4 | Blanding, Th | 1. | 4. | - | 80 | - | - | | - | 2 | 0 | | _ | | | |
| 5.5 | | | Seasoned Lyr Ofter Treatment | 15 | - | 1. | 4 | Barr, Colo. | 1 | Lyons Stone | Yery Dry | 90 | - | Yes | - | - | 2 | 0 | | _ | _ | | |
| | ZINC CRE | FOSOTE | - CARD | | | | | | | | 19 | | | | | 1000 | | | | | | | |
| 41 | _ | - | - | 386 | - | 20 Creo | 1909 | Lines East | 10 | Burnt Clay | - | 75.85 | - | Britis | - | 1914 | 5 | 0.5 | - | - | - | - | - |
| 42 | _ | _ | _ | 207 | - | 4 | 10 | do West | 10 | do | - | 85.90 | - | 103 | - | 4 | 5 | 0 | - | | - | | - |
| 4.3 | - | - | - | 175 | _ | 10 | 1910 | 1. East | 4 | Gravel | - | 90 | - | All | - | 10 | 4 | 0 | - | - | - | - | 1 |
| 44 | _ | _ | - | 65 | _ | 4 | 4 | do West | 4 | Lyons Stone | - | 90 | - | Yes | _ | 4 | 4 | 0 | - | - | - | _ | - |
| 4.5 | - | _ | - | 540 | - | 4 | 1911 | Utico, Nab. | 1. | Burnt Clay | Good | 15 | - | 1. | Plenty | 4 | 3 | 0 | - | - | - | In perfect Condition | |
| | | | | | | | 1000-0 | | | - 1- 1 | | | . 4 | 441 | Heavy | 1915 | 2 | 0 | _ | Good | _ | for 4-7 yes more | 6.0 |
| | 72929 | Sowed | Scasoned | 596 | _ | a5ZING | 1908 | Braymar, Mo | C.M. + St.P. | Burnt Bumbo | Fair | 85 | Cut | None | neavy | | | | | 1 | | for 4-7 yrs more | 0.0 |
| 4.6 | 7:9:9 | Sowed | Scasoned 8 Mo. | 596 | - | 20 Creo | 1908 | TABLE | | MAPLE | | 1 03 | - | None | neavy | | _ | | | | | for 4-7 yrs more | 0.0 |
| | | | | 596 | _ | aszine 20 creo | 1908 | | | MAPLE | | | CUI | None | neavy | | _ | | | | | for 4-7 yrs more | 0.0 |
| | | | 8 Mo. | 596 | 1 | 17.80 | 1908 | TABLE | 17_ | | | 15:45 | _ | Partly | _ | 1944 | 5 | 0. | | - | _ | for 4-7 yel more | |
| 4.6 | | | 8 Mo. | | 1 11 | zocreo | | TABLE | 17_ | MAPLE | | | | | | | | | = | - | - | For 4-7 yri more | 5.0 |
| 4.6 | | | 8 Mo. | 88 | 1 111 | 17.80 | | Incs East | 17 | MAPLE Conders Gravel Durnt Clay | | 75:45 | | Partly | | | 5 | 0. | Ξ | 1 - 1 | | Far 4-7 gri more | 5.0 |
| 1.1 1.2 1.8 | CREOSO — | | 8 Mo. | 88 48 | 1 1111 | 17.80 | 1901 | Lines East | 1819 | AMAPLE Conders Grand Burnt Clay | | 75:85 85-90 | | Partly All | | 1914 | 5 5 | 0. | === | 1111 | 1111 | For 4-7 yell more | 5.0 |
| 1.1 | <u>CREOSO</u> | - - - - - | 8 Mo. | 88 48 50 | 11111 | 17.80 4. | 1901 | Lines East J. West d. East | 1810 | Conders Gravel Burnt Clay Le Gravel | - - - - | 75:85 85-90 90 | | Partly All | | 1944 | 5 5 4 | 0 0 | Ξ | 1111 | 1111 | For 4-7 yell more | 5.0 |
| 4.6 1.1 1.2 1.8 1.4 | CREOSO — | - - - - - | 8 Mo. | 88 48 50 15 | 1 1111 1 | 17.80 4. | 1901 | Lines East J. West d. East J. West | 1810 | Conders Gravel Burnt Clay Le Gravel | - - - - | 75:85 85-90 90 | | Partly All to | | 1944 | 5 5 4 | 0 0 | 1111 | 1111 | 11111 | Fu 4-7yli more | 5.0 |
| 1.1 1.2 1.8 | CREOSO | 01E - FU | 8 Mo. | 88 48 50 | 1 1111 1 | 17.80 4. 4. | 1901 | Lines East J. West d. East | 2810 | MAPLE Conders Gravel Const Cay Gravel Lyons Stone | - - - - | 75;85 85-90 90 90 | | Partly All | | 1944 | 5 5 4 4 | 0 0 0 | 1111 | 11111 | 1,1111 | Fu 4-7yli more | 5.0 |
| 4.6 1.1 1.2 1.8 1.4 | CREOSO | 01E - FU | 8 Mo. | 88 48 50 15 | 1 1111 1 | 17.80 4. 4. | 1901 | TABLE Lines East J. West d. East J. West Baders, Til. | 2810 | MAPLE Conders Grand Bravel Lyons Stone Gravel | - - - - | 75-85 85-80 90 90 | | Partly All to | | 1944 | 5 5 4 4 | 0 0 0 | 1111111 | 1111 | 11111/1 | For 4-7 yell more | 5.0 |
| 4.6 1.1 1.2 1.3 1.4 2.1 | CREOSO | 01E - FU | 8 Mo. | 88 48 50 15 4 | 1 1 1111 1 | 17.80 4. 4. | 1909 | Lines East d. West d. East l. West Baders, 711. | 2840 | MAPLE Sinders Gravel Lyons Stone Gravel Lyons Stone Gravel Orders Gravel | - - - - | 75;85 85-90 90 90 | | Partly All Jo do Refresh | | 1944 | 5544 5 5 | 0 0 0 | 1111 1 11 | 11111 1 11 | 11111/1 11 | Fu 4-7yli more | 5.0 |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 | CREOSO | 01E - FU | 8 Mo. | 88 48 50 15 4 57 28 | 1 1111 1 11 | 17.80 4. 4. | 1909 1910 1911 | TABLE Lines East d. West d. East l. West Baders, Til. Lines East A. West | 2840 | MAPLE Conders Gravel Gravel Lyons Stone Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel | - - - - - - | 75.85 85.80 90 90 10 75 | | Partly All Jo de Partly Rartly All | 111111111111111111111111111111111111111 | 1944 | 5544 5 55 | 0 0 0 0 0 97.0 95.0 | | 111111 | 1111/1111 | Fu 4-7yli more | 5.0 |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 | CREOSO | 011L | 8 Mo. | 88 48 50 15 4 57 28 25 | 1 1111 1 1111 | 17.80 4. 4. | 1909 | TABLE Lines East J. West J. West J. West J. West Lines East Lines East Lines East Lines East | 2870 | MAPLE Conders Gravel Gravel Lyons Stone Gravel Orders Gravel Bont Cay do Gravel | | 75-85 85-90 90 90 75 25-85 | | Partly All de Partly All de | 1111 1 1111 | 1944 | 5544 5 554 | 0° 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1111 1 1111 | 111111 | 1111 1 1111 | Fu 4-7yli more | 5. |
| 4.6 1.1 1.2 1.8 1.4 2.1 | CRUOE | 0/L | ## A ## | 88 48 50 15 4 57 28 25 14 | 1111 1 1111 | 17.80 4. 4. | 1909 1910 1911 | TABLE Lines East d. West d. East l. West Baders, Til. Lines East A. West | 2870 | MAPLE Conders Gravel Gravel Lyons Stone Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel | | 75.85 85.80 90 90 10 75 | | Partly All Jo de Partly Rartly All | 111111111111111111111111111111111111111 | 1944 | 5544 5 55 | 0 0 0 0 0 97.0 95.0 | | 111111 | 1111 171111 | Fu 4-7yli murc | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 3.4 | CRUOE | 0/L | 8 Mo. | 88 48 50 15 4 57 28 25 14 | 1 1111 1 1111 | 17.80 4. 4. | 1901 1, 1910 1, 1911 1909 1, 1910 1, 1910 | TABLE Lines East J. West J. West J. West Lines East Lines East J. East J. East J. East J. East J. East J. East | 2 C810 | MAPLE Conders Gravel Gravel Lyons Stone Gravel Orders Gravel Gravel Lyons Stone Lyons Stone Lyons Stone Lyons Stone Lyons Stone | | 75 #5 85 #0 90 90 75 75 25 #5 4. 90 90 | 1111 1 1111 | Partly All Jo Jo Partly All All Jo | 1111 1 1111 | 1944 | 5544 5 5544 | 0 0 0 0 0 97.0 93.0 76.0 100. | = | 1111 1 1111 | 11111 171111 | Fu 4-7yli more | 5.0 |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 3.4 4.1 | CRUOE | 0/L | ## A ## | 88 48 50 15 4 57 28 25 14 7 | 1 1111 1 1111 1 | 17.80 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. | 1909 1910 1910 1909 1910 1909 | TABLL Lines East 4. West 4. East 1. West Baders, Ill. Lines East 4. West 4. West 4. West 4. West 4. West | 17 | MAPLE Conders Grand Gravel Lyons Stone Gravel Conders Gravel Conders Gravel Lyons Stone Conders Gravel Lyons Stone Conders Gravel Conders Gravel Conders Gravel Conders Gravel | | 75-85 85-80 90 90 75 25-85 4. 90 90 | | Partly All Jo Barry Barry All Jo Barry All Jo Barry | 1111 1 1111 | 1944 | 5544 5 5544 5 | 0 0 0 0 0 97.0 93.0 76.0 100. | - Split | 111111 | 11111 171111 | | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 3.4 4.1 4.2 | CRUOE | 0/L | ## A ## | 88 48 50 15 4 57 28 25 14 T | 11 1111 1 1111 11 | 17.80 A. | 1909 1910 1910 1909 1910 1909 1909 | TABLE Lines East 4. West 4. West 5. West Lines East 4. West 4. East 4. West 4. East 4. West 4. East 4. West 5. West | 2810 2 2 4 4 4 4 | MAPLE Conders Gravel Lyons Stone Gravel Lyons Stone Gravel Lyons Stone Gravel Lyons Stone Control Lyons Stone L | | 75-85 85-80 90 90 75 25-85 4. 90 90 | 1111 1 1111 | Partly All Jo do Partly All An | 1111 1 1111 | 1944 | 5544 5 5544 55 | 0. 0 0 0 97.0 93.0 76.0 100. | Split Rot | 1111 1 1111 | 111111111111111111111111111111111111111 | ien split | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 3.4 4.1 4.2 4.3 | CRUOE | 0/L | ## A ## | 88 48 50 15 4 57 28 25 14 7 75 41 50 | 111111111111111111111111111111111111111 | 17.80 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. | 1909 1910 1911 1909 1910 10 1909 1910 1910 1910 | TABLE Lines East 4. West 4. East 4. West 5. West Lines East 4. East 4. East 4. East 6. West 7. L. East 6. West 1. East 1. East 1. East | 2000 12 12 12 12 12 12 12 12 12 12 12 12 12 | MAPLE Confers Grand Durat Day Gravel Lyane Strane Gravel Lyane Strane Gravel Lyane Strane Gravel | | 75 45 85 40 90 90 10 75 25 45 40 90 90 | 1111 1 1111 | Partly All Jo do Rectly All Jo de Partly All Jo | 1111 1 1111 | 1944 | 5544 5 5544 554 | 0. 0 0 0 0 97.0 93.0 74.0 100. | - Split | 1111 1 1111 | 1111 1111 17111 | | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 4.1 4.2 4.3 | CREOSC CRUDE UNTRE. | OIL ONIDE | O Mo. | 88 48 50 15 4 57 28 25 14 T | 111111111111111111111111111111111111111 | 17.80 A. | 1909 1910 1910 1909 1910 1909 1909 | TABLE Lines East 4. West 4. West 5. West Lines East 4. West 4. East 4. West 4. East 4. West 4. East 4. West 5. West | 2810 2 2 4 4 4 4 | MAPLE Conders Gravel Lyons Stone Gravel Lyons Stone Gravel Lyons Stone Gravel Lyons Stone Control Lyons Stone L | | 75-85 85-80 90 90 75 25-85 4. 90 90 | 1111 1 1111 | Partly All Jo do Partly All An | 1111 1 1111 | 1944 | 5544 5 5544 55 | 0. 0 0 0 97.0 93.0 76.0 100. | Split Rot | 1111 1 1111 | 1111 1111 1111 | ien split | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 4.1 4.2 4.3 | CREOSC CRUDE CRUDE UNTREA | OIL ONIDE | O Mo. | 88 48 50 15 4 57 28 25 14 7 75 41 50 | 1111 1 1111 1111 | 17.80 h. | 1909 1911 1909 1910 14 1910 14 14 1910 14 | TABLL Lines East 4. West 4. East 1. West Lines East 4. East 4. East 4. East 4. East 4. East 4. West 4. East 4. West 4. East 6. West | 2000 12 12 12 12 12 12 12 12 12 12 12 12 12 | AMPLE Conders Grand Gravel Lyans Stone Gravel Lyans Stone Gravel Lyans Stone Gravel Lyans Stone Conders Gravel Lyans Stone Conders Gravel Lyans Stone Lyans Stone Lyans Stone Lyans Stone Lyans Stone Lyans Stone | | 75 85 90 90 90 10 75 75 85 85 90 90 90 | 1111 1 1111 | Partly All Jo Bortly All Jo Bo | 1111 1 1111 | 1944 | 5544 5 5544 5544 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Split Rot | 1111 1 1111 | 1111 1111 17111 | ien split 2% Decayed | 5. |
| 4.6 1.1 1.2 1.3 1.4 2.1 3.2 3.3 4.1 4.2 4.3 | CREOSC CRUDE UNTRE. | OIL ONIDE | O Mo. | 88 48 50 15 4 57 28 25 14 7 75 41 50 | 1 1111 1111 11111 1 | 17.80 4. 4. 4 | 1909 1910 1911 1909 1910 10 1909 1910 1910 1910 | TABLL Lines East 4. West 4. East 1. West Lines East 4. East 4. East 4. East 4. East 4. East 4. West 4. East 4. West 4. East 6. West | 2 2840 | MAPLE Confers Grand Durat Day Gravel Lyane Strane Gravel Lyane Strane Gravel Lyane Strane Gravel | | 15-85-80 85-80 90 90 10 25-85-85 90 90 90 75-85 | 1111 1 1111 | Partly All Jo Barrissel Partly All Jo Barrissel Barri | 1111 1 1111 | 1944 | 5544 5 5544 5544 5 | 0. 0 0 0 0 97.0 93.0 74.0 100. | Split Rot | 1111 1 1111 | 1 1111 1111 17111 1 | ion split 2% Occayed 2% Split | 5. |
| 46 11 12 13 14 21 32 33 34 41 42 43 44 | CREOSC CRUDE UNTRE. | OIL ONIDE | O Mo. | \$8 48 50 15 4 57 28 25 14 7 75 41 50 15 | 1 1111 1111 1111 1 | 17.80 | 1909 1911 1909 1910 14 1910 14 14 1910 14 | TABLL Lines East 4. West 4. East 1. West Lines East 4. East 4. East 4. East 4. East 4. East 4. West 4. East 4. West 4. East 6. West | 2000 | AMPLE Conders Grand Gravel Lyans Stone Gravel Lyans Stone Gravel Lyans Stone Gravel Lyans Stone Conders Gravel Lyans Stone Conders Gravel Lyans Stone Lyans Stone Lyans Stone Lyans Stone Lyans Stone Lyans Stone | | 75 85 90 90 90 10 75 75 85 85 90 90 90 | 1111 1 1111 | Partly All Jo Bortly All Jo Bo | 1111 1 1111 | 1944 | 5544 5 5544 5544 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Split Rot | 1111 1 1111 | 1111/11111 1111 11 | id to split 2th Decayed Ett Split 4th Split 1th Burned | 5.0 |
| 46 11 12 13 14 21 32 33 34 41 42 43 43 | CREOSC CRUDE UNTRE. | OIL ONIDE | O Mo. | 88 48 50 15 4 57 28 25 14 7 50 15 | 111111111111111111111111111111111111111 | 17.80 | 1909 4. 1910 4. 1911 1909 4. 1910 4. 1909 4. 1909 4. 1909 4. | TABLE Lines East L. West L. East L. West Lines East Lin | 2810 | AMPLE Indira Grand Oravel Lyans Stone Graral Oravel Lyans Stone Graral Lyans Stone Control Lyans Stone Order Grard | | 15-85-80 85-80 90 90 10 25-85-85 90 90 90 75-85 | 1111 1 1111 | Partly All Jo Barrissel Partly All Jo Barrissel Barri | 1111 1 1111 | 1944 4 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 5544 5 5544 5544 5 | 0. 0 0 0 0 97.0 93.0 74.0 100. | Split Rot | 1111 1111 11111 | 1111 1111 1111 17111 | ion split 2% Occayed 2% Split | 5.00 de |

23

| / | 1 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | .18 | 19 | 20 | 21 | 22 | 25 | 24 |
|------|-------------------|----------|--------------|--------------------|----------------------|-------|---------|------------------------------|---|---------------------|------|-----|-------|------|-------|--------|-----|------|----------|----|-------|---|-------|
| | | | | | | | | | TA | BLE 18 | OAK | | | | | | | 100 | 3.333 | 0 | | | |
| | CREOSO | TE | | 1 | | | 1 | | | | | | | | | | | | | | | | |
| 1.1 | - | - | - | - | - | - | 1- | France | - | _ | _ | - | _ | _ | - | 1895 | - | - | _ | _ | 25 | | 10.1 |
| 1.2 | - | _ | _ | Thousand | - | - | - | Belgium | Belgian R. A.S | - | - | 105 | 5cher | Yes | Heavy | - | - | - | - | - | 22-24 | Then on Station Tracks | 29.2 |
| 13 | - | - | - | - | 15.4 | - | - | Germany | Union Ry's | _ | - | _ | _ | _ | - | 1896 | - | - | _ | - | 24 | | 13.0 |
| 1.4 | - | _ | - | 67678 | - | - | 1854 | de | Cologge | - | - | _ | - | _ | _ | 1800 | - | - | _ | _ | 19.6 | | 29.7 |
| 1.5 | - | - | - | - | 24.3 | - | - | 10 | - | _ | - | _ | - | _ | _ | 1096 | _ | - | _ | _ | 28 | | 13.0 |
| 1.6 | - | - | - | - | - | 8-12 | 1886 | - | Lehigh Kalley | - | _ | _ | _ | | _ | 1908 | 22 | - | _ | _ | _ | Includes Pina . More than | 1.00 |
| | CREOSOT | E - BE | THEL | | | | 1-3 | | | | 0 | | - | | | | 100 | | | | | 000000 1.72 | 7.00 |
| 21 | 5.1 = 10.2 = 8.53 | - | - | | 9.5 | - | - | France | South. Rg. | _ | - | _ | _ | _ | - | - | - | - | _ | _ | 10-15 | | 2.2 |
| 2.2 | do | - | - | Antwa's 242,050 | 11-13 | - | - | 10. | West Ry | - | - | _ | _ | _ | | 1- | - | _ | _ | _ | 15-20 | Decey + Split | 1 |
| 23 | 4 | - | - | 460,000 | 12 | - | - | 4 | Origens Ry | _ | _ | _ | _ | _ | _ | - | - | _ | _ | _ | 15 | Decay | 10 |
| 2.4 | 205050 | | | 700,000 | 10-11 | - | - | 40 | P.L. SH. Ry. | _ | _ | _ | _ | _ | _ | - | _ | _ | | | 12 | Decay & Cutting | 1 |
| See. | Gum - Ind | TE - 10 | WRY | | | | | | | | | 1 | | | | 1 | | | | | - | | 1 |
| 2.5 | 1 7×9×8-6 | _ | - , | | 2.5601. | - | 1905 | | Big Four | _ | - ; | - | | - | - | 1914 | 9 | - | _ | _ | 10 | Here removed en account of rot atom crushed by derailment | 43.0 |
| 2.6 | 14400 | = | Seasoned | 845 | 3.5 Gol. 5.6 Gol. | = | 1914 | Alfred, Pa Biterson, N.S. | 0.1.TW. | Stone | 6000 | 105 | Serew | DIAM | = | 1915 | 1 | 0 | 0 | 0 | 0 | The Crosned by berainment | 44.0 |
| | MERCURI | C CHLOR | PIDE - KY | | | | 1 | , | 0. | - | 00 | 101 | do | do | - | do | 3 | 0 | 0 | 0 | 0 | - | do |
| 3.1 | _ | - | _ | - | 1 - | 1 - | 1840 | _ | C.+a. | _ | | _ | - | _ | | 1854 | 14 | _ | 1 | _ | | Favorable 1854 | |
| | UNTREA | TED | | | | | 1 | | FACE I | | 7777 | | | 1 | | 1201 | 1 | | | | | 121010012 1034 | 2.40 |
| see | CHESTHUT | Index | No. 3.5 - 3. | 5 | | | | | | | | | | | | | | | | | 1 | | |
| 4.1 | - | - | _ | 201600 | - | _ | 99-1900 | OHIO | 8.40. | | _ | - | | | 1 | 1909 | 10 | 47 | Various | | | | |
| 4.2 | - | _ | _ | 8605 | _ | _ | 1903 | 1 | Erie | | | | | | | 1910 | 7 | 46 | Variacis | | - | | 1.10 |
| 4.3 | _ | | _ | 694,300 | _ | _ | 1901-2 | and the same of the | Asth | | _ | | | | | 1909 | 8-9 | 0632 | | | - | | 1 - |
| 44 | _ | _ | | 118,400 | _ | _ | 1906 | | Mo.P. | | | | | | _ | 1910 | - | 40.5 | _ | - | - | Includes Yellow Ane | |
| 4.5 | _ | _ | _ | 646,631 | _ | | 1897 | Miss. + Ala. | M. 70. | | | | 100 | | = | 12000 | # | 255 | - | - | - | | 10 |
| 4.6 | _ | | _ | 1,334,215 | 1 25 | | _ | Germany | 12 R.R.S. | | | | | | _ | 1910 | 13 | 75.0 | - | - | - | | 1 |
| 4.7 | _ | | _ | 167000 | _ | | 1843-4 | 4 | Altono | 100000 | | | | | _ | - | - | | - | - | 13.6 | | 2.40 |
| 48 | _ | _ | | 180204 | | _ | 1846 | 1 | Assagn | 83 - 011 | _ | _ | 1 | - | _ | 1880 | 24 | 96.2 | - | - | 15.1 | - | 29.70 |
| 49 | _ | | | 140,108 | | | 4 | 1 | Colegge | | - | | - | _ | - | 10 | 20 | 75.4 | - | - | 16.0 | | do |
| 4.10 | | 22.1 | _ | 565,261 | _ | | 1845 | do | Hanover | | - | | | - | - | do | 10 | 99.1 | - | - | 13.5 | | do |
| 4.11 | _ | | | 615,968 | | | 1000 | | Rendinger | - | - | | | - | - | - | 22 | 81.4 | - | - | 16 | - | 10 |
| 4.12 | | (E) | | 2,0,700 | 3 | | | - de | 100000000000000000000000000000000000000 | _ | | - | - | | - | 10 | 12. | 74.7 | - | - | 10 | | 4 |
| 4.13 | 7:9' . 8.5' | | | | | = | Secent | France | | _ | - | - | - | - | _ | 1895 | - | - | - | - | 135 | | 10.1 |
| , | ZINC O | HIDRID | - | 15000 | | | Tears | | M. + O. | _ | - | | - | - | - | 1914 | - | - | - | - | 7 | About & Pine Ties | 42.0 |
| 5.1 | 2 | 1201110 | | | 17.6 | | | Switzerland | | | | | | | | | | | | | | | |
| 5.2 | 65 - 105% | | | 150 | 11.0 | _ | - | - Indiana and a | 4 R.Rs. | | - | - | - | - | - | - | - | - | - | - | 20-25 | Life untreated 15 years | 2.00 |
| 5.3 | 9.10. | | | 110100 | _ | | 1 | Germany | | - | - | - | - | - | - | - | - | - | - | - | 15 | | do |
| 5.4 | 1 | | - | 168,690 | _ | - | 1854 | * | Hanone RR. | _ | - | - | - 1 | - | - | 1880 | - | - | - | - | 19.6 | | 29.70 |
| J. T | TIME A | 110000 | - BURNE | 18,600 | _ | _ | 10 | 4 | Sheine Ry | | - | - | - | - | - | 1878-9 | 24 | 36.4 | - | - | 25 | Joint Ties | 29.70 |
| Sec | | | | - | | | | | | | 8 | | 1 | | -1 | | | 7 | | | | | 2.40 |
| 6.1 | BEECH I | l l | 11.0 | | | | | 1 | | | | | | | | | | | | | | | |
| 0.7 | 8210" x | | _ | - | 24.2 | - | 1- | Germany | Union RR | - | - | - | - | - | _ | 1896 | - | - | - | - | 15 | - | 13.00 |
| | ZINC CA | | | | | | = 7 | | | | | | | | | | | | | | | | 1 |
| | GUM Indes | No. 21.1 | | | | | | | | | | 1.8 | | | | | | | | | | | |
| 7.1 | 69 8-109 " | - | - | - | - | - | - | German + Austrian Rgs. | - | | - | - | - | - | - | - | - | - | - | - | 19.5 | | 2.40 |
| - | | - | | | | | | | OAK- | BLACK | - | | | | | | | | | | | | |
| | SALTS - | BARSC | HALL H | | MANN | | - | 1 | | | | | | | 4 | | 4 | | | | | | |
| 8.1 | | - | _ | 11.8 | _ | _ | 1902 | Seaumont, Tex. | 6.C. 15.F. | Sand | Poor | 60 | Cut | None | Heavy | 1908 | .6 | 100 | _ | _ | 3.84 | started to fail 1905 38% re- | 11.00 |
| | 0-Avera | gelife | estimates | d by Fo | rest se | rvice | | | | Land of | - | | | | | | | | | | - | | |

| EMC CREOSOTE - ALLAROYCE 13.1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10. | " | /2 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|--|---|-----------|---------|-------------------|--|-------|------------|-----------|--|---|--------------|----------|-------|-------|--------------|---|------|-------|--------|-------|----|------|--|--------|
| ## STATESTED ### | TA | EATED - | PROCE | SS NOT M | NOWN | | | | | | | 1 | | | | | | | | | | | | |
| Second S | 1 .1 | - | - | _ | 40885 | - | - | 1904 | Illinois | 0.8.49. | - | - | - | - | - | - | 1910 | 6 | 4.5 | - | - | - | - | 1.10 |
| 9 | | TREATED | 1 | | | | 1 0 | | . /- | | , | - | | . , | | | | , | | | | | stacked to fail 1805 | |
| 10 | | | - | _ | 25 | - | - | 1902 | Desumont Tex | G.CYS.F. | Sond | Poor | 60 | cut | None | Heory | 1908 | | 100. | - | _ | 4.6 | 92% out by 1907 | 1.00 |
| Definition 76 | 0,,5 | NC CHLON | - B | 152-16-23 | 14 | _ | 2.55 | 10 | 1 | 4 | 1 | 4 | 1. | 4 | 2. | 1 | 1911 | 9 | 100 | _ | _ | 80 | Startes to fail in 1908 | 10 |
| Dell | | NC CREOS | SOTE | | | | | | | | | 100 | | | | | | | | | | 1 | The state of the s | |
| | 0/2/ | _ | | - | 76 | - | - | 1. | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 1904 | 2 | 100. | - | - | 1.84 | do 1403 | do |
| Section Sect | | NO CREOS | OTE - A | LLAROYCE | | - | | 200 | | 100 | | | | | | | | | | | | | | |
| 141 | 1 | - | 1000 | - | 60 | - | 30 Crea | de | 4 | 4 | 4. | 4. | 4 | 1. | ~ | 10 | 1912 | 10 | 77 | - | - | - | 4 1911 | 0 |
| 1.5.4 | 1 1 1 1 1 1 1 | NC TANKIN | - WELL | | | | | | , | , | , | , | , | , | , | , | 1 | in | 20 | | | | 1. 1908 | 2 |
| 10 10 10 10 10 10 10 10 | 1000 | | . = | - | V PROWN | | HI TO VICE | 1000 | | | 7.5 | | | | - | | | | 10000 | | _ | | | 200 |
| 10.45 | The second | | | | 1000000 | | - | JR 2563 | | ASSESSED BY | | _ | | | _ | | | | 1000 | | _ | 1 | | 100000 |
| 2.55 | 8144 | | _ | | | | _ | REICCO. | _ | 120000000000000000000000000000000000000 | _ | _ | _ | | - | - | | | 1000 | | - | - | - | 100 |
| 19.57 | 0.4.5 | - | - | The second second | | - | - | 1901 | - | 4 | - | - | - | - | _ | - | 1 | 9 | 1000 | 4 | - | - | | 4 |
| 0.48 | 0/46 | - | - | - | 194,430 | - | - | | - | 1. | - | - | - | - | - | - | 4 | 1339 | 1000 | do | - | - | - | 4 |
| 0.41 | 0/47 | - | - | - | 100000000000000000000000000000000000000 | - | | 30354696 | - | 30.00 | - | - | - | - | - | 1000 | 32 | | 1 | | - | - | | 1000 |
| 0.48 | @14.8 | - | - | - | The Contract of the Contract o | | - | H10500000 | - | 1 1 1 2 2 | - | - | - | - | - | 100000000000000000000000000000000000000 | 100 | | | | - | - | 1 | S 95 |
| 10 10 10 10 10 10 10 10 | 7.50 | | - | _ | | _ | - | 0460 CU | | | | | | | | | | 1 | 100 | | | | | 1 33 |
| OAK CHESTNUT | | _ | _ | | 1777 S. | | | 950009007 | | | | | | | | | 100 | | | | | _ | | |
| | | | | | | | | . / . / | | | - CHES | TNUT | | | | | | | | | | - | | |
| WOOD TARK CREOSOTE - DIPPED I HOUR 1878 Alesano III. TA System | 40 | TREATED | - | | | | | | | | | | | | | | | | | | | | | |
| WOLD TAK CHEOSOTE - DIPPED 1 HOLD | | - | | | | - | - | 1404 | Modern lad | 8+0. S. W | - | - | - | - | - | - | 1909 | 5 | 15 | - | - | - | 33 1% renewals for 1910 | 4.00 |
| UNTREATED UNTREATED OAN DANISH OAN DANI | | DOD TAR | CREOSO | TE - DIPP | ED I HOL | UR | | | | | | - | | (2.0) | | | | | | 200 | | 1 | | |
| 171 45.85 | 16.1 | - | - | - | / | - | - | 1894 | Altoono Po. | Po. System | V. DANI | SH _ | - | - | _ | - | 14/4 | - | - | Deray | _ | 13 | | 20.10 |
| 171 45.9° | 111 | TREATER | | | | | | | | 1 | Drin | 1 | | | | | | | | | | | | |
| CREOSOTE 18.1 7.88.85 - 38.50 30.40 - 1910 Maskin, Oho & System 1915 5 Na direct some cutting ay 80.00 CREOSOTE - FULL CELL 164 - 6.17 1809 Lines East C.8.79 Organ Group - 15.55 No.114 - 1914 5 0 | | | _ | _ | 3500 | _ | - | 1898 | Denmark | Willered | _ | _ | | - | | - | 1912 | 11 | 15 | _ | - | - | | 9.00 |
| 18. 788x83 - 3830 30-40 - 1910 Masskin, cho to Syntim | - | | | | | | | 0.50 | | | K- MIXE | 0- | | | | - | | | | | - | 1 | | |
| TABLE 9 OAK PIN | CA | EOSOTE | | | 1 | | - | | | | | | | 100 | | | | - | | | | | No decay - some cutting by | |
| CREOSOTE - SULL CELL 11 | 18.1 | 728285 | - | - | 3830 | 30-40 | - | 1910 | Wooster, Ohio | 1 System | 2 224 | - | - | - | - | - | 1913 | 3 | - | _ | - | - | rails and plates | 2000 |
| 11 | | OFOCOTE. | | | - | _ | | | 146 | 1 | UMA. | 1 | - | | | | - | | | | + | + | | |
| 1.2 | | TEUSUIE - | -ULL C | | 164 | - | 6.17 | 1909 | Lines East | 68,0 | Orgers Grave | | 75:85 | - | Portly | - | 1914 | 5 | 0 | _ | - | - | | 5.00 |
| 1.3 | 33.54 | _ | | | 2000 | _ | | 1000 | The state of the s | 100000000000000000000000000000000000000 | | _ | | _ | | | 100 | | 100 | _ | - | _ | | |
| 1.4 | 1 | | _ | _ | .3 | _ | 1. | 1911 | 1. 1. | 4 | | _ | 75 | - | Except. | _ | 14 | 3 | 0 | - | - | - | | de |
| UNITREATED . | 1.4 | _ " | - | - | 87 | _ | 4 | 1909 | 1. West | 1. | Burnt Clay | - | 45-40 | - | | - | de | 5 | 0 | - | - | - | | 1. |
| 2.2 - 30 - 4. 4. West 1. 4. Start - 4. Gravel - 90 - Full - 4. 4 0 | 1.5 | - | - | - | 45 | - | Jo | 1910 | 1. % | 1. | Lyonsstone | Yery DIY | 90 | - | do | - | 10 | 4 | 0 | - | - | - | - | do |
| 2.2 - 30 - 4. 4. West 1. 4. Start - 4. Gravel - 90 - Full - 4. 4 0 | | | | | 8 | | | 10 | | | | 1 | | | | | | | | | | | | |
| 2.2 - 30 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 10000000 | TREATED | | | - | | | 1000 | 1 | | Anders Grave | | 20.00 | | 24 | 1 | 010 | - | 520 | | | 1 | | 500 |
| 2.5 24 1910 1. East 4. Gravel 90 - Full - 1. 4 0 4 2.5 24 1910 1. East 4. Gravel 1. West 5. Lyuns Stone Very Day \$5.50 - Ves - 1. 4 0 4 O Average Tile estimated by Forest Service 1. West 6. Lyuns Stone Very Day \$5.50 - Ves - 1. 4 0 4 O includes Red Oak - Number given is number treated for the year given and not the number of ties placed in track | 20000 | - | - | _ | | - | 1 - | 10.0 | HAROLING CA | CONTRACTOR OF THE PARTY OF THE | | | | _ | | | 1000 | 1100 | 100000 | | 1 | - | | |
| 2.4 15 - 16 1. Nest 1. Syans State Very Dry \$5.40 - Yes - 10 4 0 40 O Average Tile estimated by Forest Service O includes Red Oak - Number given is number treated for the year given and not the number of ties placed in track | 100000 | | | | 10000 | | | 12.54 | The second | 10000 | | | 70.0 | | and the same | | | 133 | 0.75 | _ | - | - | | 100 |
| O Average life estimated by Forest Service O includes Red Oak - Number given is number treated for the year given and not the number of ties placed in track | 100000000000000000000000000000000000000 | _ | - | _ | | _ | 4 | 1000 | 1 | | 1 | Very Dry | | - | | 105 | | | | 1 | 1- | 1- | | |
| | | | | | | | | | | | | | | C. L. | | | | | | | | | | |
| Percent ages are based on number at ties treated. | | 0 | | | | | | | | | he year gi | ven an | 1 noi | the | numbe. | of the | es p | loceo | int | rock | | | | |
| | | | Percen | toges on | 6 63360 | un n | rumber | off | les tres | rod. | | | | | | | | | | | | | | |

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 1 | T | 1 - | 1 | 1 | _ | | _ | | _ |
|-----|------------|-----------|--|----------|-----------|-----------|---------|--|-------------|-----------------|------------------|--------|--------|---------------|--------|-------|-----|------|---------|----------|----|---|-------|
| | WOOD T | R CRE | OSOTE ! | 1 | 1 | - | 1 | 1 | 10 | - " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
| 3.1 | _ | | 1_ | 18 | 1 | | 1000 | Phila v Chester | 0 | | | | | | | | | | | | 1. | 3 | |
| | ZINC CH | ORIDE . | BURNETT | ,- | | | 1702 | rina statisti | ra. System | | - | - | - | - | - | 1914 | - | 100 | Wordout | - | 1 | Record not complete | 20.10 |
| 4.1 | | | _ | 15 | | 0.5 | 1910 | Honover, III. | 10001 | Sheridan Gravel | | 90 | | | | 100 | | | | | 1 | | |
| 4.2 | _ | _ | _ | 9 | | 1 | 1 | Blanding, Ill | 1 | do | _ | 90 | | All | - | 1912 | 2 | 0 | - | - | - | | 5.00 |
| 4.3 | _ | - | Seasoned les | 45 | | 16 | 1 | Borr, CNO. | 2 | Lyons Stone | | 90 | - | Yes | - | 14 | 2 | 0 | - | - | - | | 1 |
| | ZINC CH | SOSOTE | | | | | - | 0511, 000 | ~ | -your stone | - | 70 | | 10 | - | 12 | 2 | 0 | - | - | - | | 1 |
| 5.1 | _ | _ | _ | 385 | _ | 05 ZING | 1909 | Lines East | 1. | anding Grevel | | 15/5 | USA) | Partly | | 1914 | No. | 0.3 | | | | | |
| .52 | _ | _ | _ | 201 | _ | de de | 4 | 1. West | 4 | Stone | - | 25-90 | | All | - | | 5 | 0 | - | - | - | - | 1 |
| 5.3 | - | _ | _ | 126 | - | 4 | 1910 | de East | 4 | Graval | | 90 | | 1 | | 1 | 5 | 0 | - | - | - | 1% split | 1 |
| 5.4 | _ | - | _ | 120 | - | · do | 1 | 1. West | 1 | Lyons stone | 100 | 90 | . 83 | 1 | _ | 00 | 4 | 0 | - | - | - | | 4 |
| | | | | | - | - | - | 100 | | -OAK-1 | 2057- | 100 | | 1 | - | | * | 0 | _ | - | - | 4 | de |
| | CREOSO | TE | | | | | | | | 10000000 | | | | | | | | | | | | | |
| 6.1 | 7'x9'x8.5' | | - | 50 | - | - | 1910 | Sirming hory Als. | 9.70. | 5/09 | - | 75 | _ | None | - | 1912 | 2 | 0 | _ | 30 | | | 1 2 5 |
| | UNTREA | TEO | | | | | | 100000 | | | 1 | 100 | | | 1 | 1 | | - | | | - | | 5.10 |
| 7.1 | - | _ | - | 50 | - | - | 1910 | Alabama | I.C.I. | _ | - | _ | _ | Galdie | _ | 1914 | 4 | 0 | _ | 100 | 3 | N | 21.0 |
| | - | | | | - | | | | TAB. | LE 20 | OAK- | REL |) | | | 1 | | | - | | | Horeswith yet 24% decoyed | 21.00 |
| | CREOSO. | TE | | | | | | | | | | | | | 1 | | | | | | | - | - |
| 1.1 | | - | - | 200 | - | 8.0 | 1910 | | 5/175.W | _ | _ | - | _ | _ | - | 1914 | 4 | 0 | - | _ | _ | Seasoned 10 mo after treatment | 30.10 |
| 12 | 7x8×8-6 | | - | 3789 | 2.5 Gol | - | 1907 | | Pa. System | - | _ | _ | 1_ | - | _ | 1912 | 5 | 0 | _ 2 | | | Season Diagram Training | 20.00 |
| 15 | 7x9x8'-6" | Sawed + | Seasoned | 872 | do | - | 1911 | Windsorohio | 8+0 | Gravel | Good | 90 | cut | Shoulder | Ferry | 1915 | 4 | a | _ | | | Max Pressure 175 Fuer Sy. In Max Temp. 160° F. for 4 leg Hours | 200 |
| | CREOSOT | E-FULL | CELL | | | | | | | | | 17.11 | | , and | Heavy | 1.7.5 | | 100 | | | | Mas Temp. 160°F. Fur 4 109 Hours | 4.10 |
| 2.1 | - | _ | - | 60 | - | 8.34 | | Lines West | C.B.+9 | Lyons Stone | Very Dry | 90 | _ | yes | - | 1914 | 5 | U | _ | _ | _ | a management of | 5.00 |
| | - | - | - | 60 | - | 10 | 1909 | do | 4 | Burne Clay | - | 35.90 | - | 1 | - | 10 | 4 | 0 | _ | _ | _ | | 3.00 |
| 2.5 | - | - | - | 97 | - | de | | Lines East | do | Gravel | - | 90 | _ | On Corves | - | de | 6 | 0 | _ | _ | _ | | de |
| 2.4 | | - | - | 108 | - | de | 1909 | do | do | Burnt Clay | - | 75-85 | - | Partly | - | de | 5 | 1.8 | Split | _ | _ | | 4 |
| 2.5 | - | = | _ | 55 | = | do | 1910 | do | do | Gravel | - | 90 | _ | All | _ | do | 4 | 0 | | _ | _ | Isplit - I decayed | de |
| 2.7 | 7×9×8' | _ | = | 25 | | de | 1911 | do | do | do | - | 75 | - | Except waite | - | do | 3 | 0 | _ | _ | _ | | d. |
| 2 | | A Company | | 82 | - | 5.4 | 2000 | Ensley, Ala. | T.C.T. IG | - | _ | - | - | DeCorres | - | do | 4 | 9 | - | - | - | 2% Portly decoyed | 21.00 |
| 2 | 6.0.0 | Hewn | - | 50 | - | 10.9 | 1911 | Hurthord, Wis | CHISTR | Grovel | Good | 90 | Sinn | Yes | Heary | 1914 | 3 | 0 | - | - | - | 5.6% Partly Split | 27.0 |
| 2 | 1. | 1. | | 52 | - | 1. | 1 | 4. | 4. | 1. | 4 | 90 | cut | None | 1 | 4 | 5 | 0 | _ | _ | _ | 1. | 1. |
| 2. | 2 | * | AIT Scasoned | 99 | - | 140 | 1909 | Taylors rille, Ind | 12.75 | 2 | 4 | 65 | 1. | 1. | Light | 1. | 5 | 0 | - | 8576 | - | Clarteria Ry. 16% Portaly Split + Decay | 25.00 |
| 2 | 4. | 1. | 2. | 53 | - | 12.0 | 4 | 1. | 4. | 1. | de | 65 | 4 | de | 1. | 6 | 5 | 0 | - | 22 4. | - | do 15% Rail Cat + Spit | 1 |
| | CREOSO | TF - 611 | | 450 | - | 7-8 | do | 4 | 1. | 4 | 10 | 65 | de | 4 | 1. | 4 | 5 | 0 | - | 98 8. 4. | - | 1. 5.6% split - | 4. |
| 3.1 | 0.12.000 | 2 010 | J.SAM | 7 | | | | | | | 1 | 120 | | | | | | | | | | | |
| 3.2 | | | | 7 | _ | _ | | to the second se | 6C.75 F. | Sund | - | 60 | Cut | None | Heavy | 1911 | 6. | 0 | - | - | - | | 1100 |
| | CREASO | TE-10 | W PRESSU | PE | - | - | 4 | Tompico Branch | Men Cont. | - | - | - | - | - | - | 1914 | 9 | 0 | - | - | - | | 300 |
| 41 | 7:9:0 | | Seasoned 18 Mis | 104 | _ | 5.54 | 1910 | 11.1. | | | | | | | | | | | | | | | |
| 42 | _ | 1000000 | Seasones | 65 | 4.24601 | 10.8 | | | T.C. TARKG | - | - | - | - | Goldes | - | - | - | - | - | - | - | No results yet | 21.00 |
| | 4-77-24 | | A CONTRACTOR OF THE PARTY OF TH | 2/4 | 7.4400 | 10.0 | 10 | Ower N.J. | Arsonal T | - | - | - | - | Plange | - | 1911 | - | - | - | - | - | 10 | 22.00 |
| 51 | _ | _ | _ | 3 | 4.3 | | 1911 | Boders, Ill. | | | | | | | | 1000 | | | | | | | |
| | CREOSO | TE AND | CRUDE AS | | 10 011 | | 1411 | 000ers. 111, | C. B. F.Q. | Grave/ | - | 75 | - | Descriptions. | - | 1912 | 1 | 0 | - | - | - | | 5.00 |
| 6.1 | 6.8.8 | | Seasoned | 167 | | 0.25426 | 10.19 | Toylorinile, Ind. | 7000 | | | | | 500 | 4.77 | | 15 | la l | | | | | |
| - | O-Mox | Pressure | of 175 # per | Sa la a | £ 180° p | Fredsh | adel - | Final Vic | - 20 | brave/ | Fair 30 Hinut | 65 | Cut | None | Light | 1911 | 2 | 0 | - | - | - | 13.5 2 split Absorption not recente | 23.00 |
| | Q-Prein | ninary To | emperature à | 725°F | for 4 her | ers - Mas | Press | une 45.5 # | per so. In. | of 170°F | for 4 hou | | | | | | | | | | | | |
| | Q. | 4 | | d. | 3 hou | " - | do | 30.5 | 2. | | 4 3 ho | | | | | | | | | | | | |
| | D. Prelim | mary Va | was at 10 1- | 4 500 to | 1 153 hou | rs - | 10 | 57.0 | * | 185°F. F. | 1.5 13 | hours | | | | | | | | | | | |
| | 001 | mary .De. | operature 21 | rer / | nour M | ax Pressu | re . 16 | per Sy In | at 208 | F. for 101 | hours - 1 | inal V | acoon. | 10 inch | for 30 | minut | es | | | | | | |

| / | 2 | 5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|------|-----------|------------|----------------|--------|----------|-----------|---------|--|-------------------|--|-------|--------|-------|-------------|-------|------|-------|------|-----|-------|------|--|------|
| | CREOSO | TE - AU | EPING | | | | | | 9 | 10.00 | | 120 | | | | | | | 7 | | | | 1 |
| 7.1 | 6".8".8" | Hewn | Sessoned Syrs | 88 | 16.4 | - | 1906 | St. Clair, Mo. | SILYS.F. | Gravel | Good | One 75 | cot | None | Heavy | 1914 | 8 | 0 | _ | Good | _ | Rails changed 1909 | 50.0 |
| 7.2 | 1. | 4 | Seasoned 2 yes | 2/4 | 15.2 | _ | 4 | 4 | 4 | 4 | 1. | 4 | 4 | 1. | 4 | 4 | 8 | 0 | | 4 | | 4 | 50.0 |
| 7.5 | 1. | 1. | 1. | 67 | 9.53 | - | 1 | 1 | de | 4 | 4 | 1 | de | 4 | 4 | | 8 | 0 | - | 4 | | 4 | 1 |
| 7.4 | 4 | 1. | 1. | 176 | 12.4 | _ | 1 | 4 | de | 4 | 4 | 1 | 4 | 4 | 4 | 6 | 8 | 0 | _ | 4 | | 4 | 1 |
| 7.5 | 4. | 1. | 1. | 89 | 9.43 | _ | 1 | 1. | 4 | 4 | 4 | 1 | de | 1 | 4 | 1912 | 6 | 0 | _ | 1 | | 1 5 | |
| 7.6 | 1. | 4 | 10 | 108 | 9.22 | _ | 1 | 1 | 1. | 4 | de | 1 | 1 | do | do | 1 | 6 | 0 | _ | 1 | | - | 20. |
| 27 | 10 | 4 | Seasoned | 274 | _ | 5.0 | 1910 | Shemington, Ill. | 1.0 | old Bravel | | 75 | _ | 1 Theybrid | - | 1913 | | _ | | 11000 | | Weber angla bars | 100 |
| 7.8 | 1. | 4 | 4 | 274 | _ | 1. | 1909 | Fulton Ky. | 1. | Grand Tiver | | 90 | | 1 Tieplated | | 6 | 4 | 100 | | 1 | _ | | 12 |
| 29 | 1. | 1. | 4 | 274 | _ | 4 | 4 | Lulo, Miss. | 4 | New Gravel | | 75 | | 1 Treplated | | | 4 | | _ | - | | not rieplated out frinch. | |
| 710 | 1. | 4 | 4 | 274 | _ | 4 | 1910 | The state of the s | 4 | Ourt | | 75 | | | | 100 | 3 | 100 | | 10.1 | | Binsied St Still ment Weber joints | 1 |
| 7.11 | 1 | 1 | Ja | 274 | | 1. | 1909 | Nankakes, Ill. | 1. | Nd Rook | | 90 | | 1 Treplated | | 4 | 1000 | 123 | | 5000 | | The state of the s | 1 |
| 7.12 | 10 | 4 | 4 | 50 | | 5.3 | 1911 | Hartford, Wis. | C.MrstP. | | Good | 90 | | 1 " | | 4 | 4 | | - | 4 | - | Continuous angle bars | 1 |
| 7.13 | 4 | 4 | 4 | 50 | | 1000 | 4 | de la | Sec. and assessed | Gravel | | 1000 | | _ | Heavy | 1944 | , | 0 | - | - | - | 2% decayed 8% sptit | 22 |
| 7.14 | | ~ | 37 | 15 | | 2 | | | 10 | 4 | 1 | 90 | Cut | None | 4 | 10 | 3 | 0 | _ | - | | do | |
| ···+ | ,,,,,,, | | 200 | /3 | | - | 4 | Baden Til | C.B TQ | 10 | _ | 75 | - | Saderford | _ | 1912 | 1 | 0 | - | - | - | - | 5 |
| 21 | 219010, | J.M. 20 | T . | | | | | | | | 8-01 | 1 | | 400.044 | | | 11.8 | | | 1 | | with the second of the | |
| ./ | - | _ | Seasoned | 50 | - | 0.135 | 1910 | breen ville, Miss. | 1.0 | Dirt | - | 75 | - | 1 Contains | - | 1913 | 3 | - | - | For | - | Weber joints Ogcayed where dirt ballast is over the will not last long | 14 |
| | OIL, CRU | DE | | 1000 | 1000 | 1 × 1 | | | | | | | | 2004 | | | | 100 | | | | | |
| 9.1 | | | | 3 | - | - | 1911 | Boders, Ill. | 0.879 | Gravel | - | 75 | - | water fores | - | 1912 | 1 | 0 | - | - | - | - | 3 |
| | OIL, CRU | | | 1 | | | | | Sala | | 1007 | | | 1 | 1000 | 100 | | | | | | Andrew Court of the | |
| 2.1 | | | Seasoned | 172 | - | 225to 2.6 | 1909 | Toylarentle Ind | 1.6+5 | Gravel | Foir | 65 | Cut | None | Light | 1914 | 5 | 0 | - | 22 | - | 13 8% Split Absorption not accorate | 2 |
| | OIL, FUE | | PRESSURE | 1 3.00 | | | March 1 | Annual I | | | 1 | | | | | | () | | | | | | |
| 11 | - | | Seasoned | 331 | 3.0560/ | 8.7 | 1910 | aver N.V | Arsend | _ | - | - | - | Plange | - | 1911 | 1 | 0 | - | - | _ | No results yet | 22 |
| 9.7 | - | REFINE | O - FULL C. | | | | | The second | | Market Land | Carl. | 3.3 | | | - | -0 | | | | | | | |
| 2.1 | 6.8.8 | - | - | 50 | - | 7.3 | 1911 | Vortford, Wis. | CM.TJE.R | Gravel | 600d | 90 | _ | Flat Plates | Heavy | 1914 | 3 | 0 | - | - | _ | 4% Partially decayed + solit | 2 |
| 2.2 | 4. | - | - | 50 | - | do | 6 | 10 | 10 | 4 | 4 | 90 | Cut | None | 10 | 4 | 3 | 0 | - | - | - | 4. | |
| | | 15/10/2005 | MOND WOO | 20 | | | 100 | | | 100 | | | | 1 | | | | | | | | | |
| 3.1 | 739.8 | HEND | - | 500 | 0.52601. | 0.15601. | 1907 | El Puso | 6.H.+ S. A | 5/49 | - | - | Cut | Glendon | - | 1914 | 7.5 | 0 | _ | Good | _ | Time of treatment is min. | 2 |
| | SALTS, E | BARSCH | ALL HASSE | LMAN | | | | | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | X ST. | | | | | | | | | | | | |
| 4.1 | - | - | - | 19 | - | - | 1902 | Beaumont, Tax. | 6.C.+3.F | Sand | Poor | 60 | Cut | Hone | Heavy | 1908 | 6 | 100 | - | - | 3.89 | Arg. Lite estimated by Forest Service Started to fail and 79 % removed 1905 | 1 |
| | TIMBER | | T | | | | | | | | 1000 | | | | | | 100 | | | | 100 | 77,5 | |
| 5.1 | 7 49 48.5 | Sawed | Seasoned | 1011 | 175-5.42 | - | 1911. | Windson, Onia | 8.+0. | Gravel | Good | 90 | out | Shople | Feely | 1915 | 4 | 0 | _ | - | _ | Open tank Max. Temp. 2087 104 | 12 |
| | UNTREA | TED | | LOCK. | | | 1 | | | | 1 | 200 | | | ,,,,, | 100 | | | | | | | 12 |
| 61 | - | - | - | 50 | - | - | 1908 | Lines East | C.B. r.Q. | Gravel | - | 90 | _ | On Curres | _ | 1914 | 6 | 92 | Rot | - | _ | | 1 |
| 6.2 | - | - | - | 108 | - | _ | 1409 | 1. | 4 | Burnt clay | - | 75.85 | _ | Partly | _ | 1 | 5 | 69 | 4 | - | _ | | 0 |
| 6.3 | _ | - | _ | 25 | _ | - | 1910 | 4 . | 4 | Grave/ | _ | 90 | _ | FUN | _ | 4 | 4 | 3.9 | 4 | - | _ | | |
| 64 | _ | - | - | 59 | _ | _ | 1909 | Lines West | 4 | Confers Grave | _ | \$5.90 | _ | Yes | _ | 4 | 5 | 71.4 | 4 | _ | _ | | |
| 6.5 | _ | - | - | 15 | - | _ | 1910 | 40 | 4 | Lyons Stone | - | 90 | _ | do | | 1. | 4 | 0 | _ | _ | _ | | |
| 6.6 | _ | _ | _ | 51200 | _ | _ | 1903 | Tennessee | 1.0. | _ | - | _ | _ | _ | _ | 1910 | 7 | 3.5 | _ | | | | 1 |
| 6.7 | _ | 2 | _ | 22400 | - | _ | 1905 | 1. | 4 | _ | _ | - | _ | _ | _ | 10 | 5 | 11.0 | _ | _ | - | | 1 |
| 5.8 | 6"x8"x8" | Hewn | _ | 100 | _ | | 1911 | Hartford Wig. | CHTSIP | Gravel | Good | 90 | _ | | HEARY | 1914 | 3 | 1 | | | | 55% Butally decayed 9% But Split | 2 |
| .0 | 4 | - | Seasoned IOme. | 50 | _ | _ | 4 | 4 | 4 | de | 6000 | 90 | Scrow | Mat Mates | 4 | 4 | 3 | 0 | | _ | | Split | -59 |
| .10 | 4 | _ | 4. | 50 | _ | _ | 1 | 4 | 4 | - | 4 | 90 | cut | None | 4 | | 5 | 3500 | _ | | | | |
| 6.11 | 1 | _ | _ | 38400 | _ | _ | 1904 | Tennessea | 1.0. | | | _ | | 1 | - | 1010 | 12000 | 0 | = | | | 4. | |
| 6.12 | | | _ | 48000 | 1 | 1 | 1903 | do | 1137-17-1 | | | | | | 1 | 1910 | 6 | 11.0 | | | | | 1 |
| 6.13 | | | | 93 | | 1000 | 1902 | La Caralla Concentra | 6.C.75.F. | Sand | | 100 | cut | W | | 4 | 7 | 24 | | | | to like achousted to and a | |
| | YPRESS IN | des No de | 7.8 | 75 | 1000 | 15 | 1702 | Basument, Tex. | a. 6. 73.7. | Sana | Por | 60 | 607 | None | Heavy | 1911 | 9 | 100. | - | - | 4 | Started to fail 1404 83% out 1905 | 11. |

| 1 | 2 | 15 | 4 | 5 | 1 | 1 - | T . | 1 | | T | | _ | _ | - | _ | - | - | _ | | - | | | |
|-------|---------|-----------|-------------|----------|-----------|----------|--------|------------------|------------|-------------|----------|-------|------|-------------|----------|--------|--------|-------|---------------|------|---------|-------------------------------------|-------|
| | | AR CREO | - | 3 | 6 | 7 | 8 | .6 | 10 | " | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
| 17.1 | | - | _ | 250 | _ | _ | 1895 | Harrisbury 7 | 0 | | | | | | | 1 | | 1 | collab. | | | 1 | 7.00 |
| 17.2 | - | _ | | 16 | | | 1896 | Baltimone Mil | Pa System | | _ | - | - | - | - | 1914 | - | 100 | Soft ghow | - | 7.0 | Includes black Ook | 20.10 |
| 17.5 | _ | - | _ | 27 | | | 1 | Le Le | 1 | | | | - | - | - | 4 | - | 1 | Decay | - | 4.0 | | 1 |
| 174 | _ | - | - | 55 | _ | _ | do | 4 | | | | | | | - | 1 | - | 1 | Rot- | - | 6.8 | | 1 |
| 17.5 | - | - | - | 180 | - | - | 1895 | Conden, N.J. | 1 | | | | | | | 1 | | 1 | Decoy | - | 5.3 | | 4 |
| | WOOD TA | R CREOS | SOTE - DIPP | ED | | | | | | | | | | 100 | - | - | - | - | _ | - | 4.0 | | 1 4 |
| 18.1 | - | - | - | 250 | - | 1 - | 1895 | XX+ Phila. | 4 | - | _ | - | _ | _ | _ | 4 | | 1 | 1. | | 5.7 | | |
| 18.2 | - | - | - | 250 | - | - | 1 | 4 | 4 | _ | - | _ | _ | _ | _ | 1 | | 4 | 10 | | 4.5 | | 1 |
| 18.3 | - | - | - | 297 | - | - | 1896 | Camden, N.J. | 4 | _ | _ | - | _ | - | _ | 1 % | _ | 1 | do | | 5:5 | | 1 4 |
| 18.4 | - | - | - | 591 | - | - | 4 | 4 | . 4 | _ | - | - | _ | _ | _ | 1 | _ | 4 | 1. | | 5.5 | | 4 |
| 18.5 | | - | - | 2910 | - | - | 1 | | 4 | - | - | _ | _ | - | - | 4 | _ | 4 | do | | 6.4 | | 1 |
| | ZINC CH | LORIDE | - BOILED | N. A. | | | | | | | | | | | | | 199 | - | | | | | 1 |
| 14.1 | | - | - | .3 | - | - | 1902 | Browment, Tax | G.C.T.S.F. | Sond | Poor | 60 | cut | None | Heavy | - | _ | - | - | 1 | | No record after 1909 | |
| | ZINC CH | LORIDE | BURNET | | | | | | | | 1000 | | | | | | | | | | | | 11.0 |
| 20.1 | - | - | - | 109 | - | 25 | 1909 | Lines East | CB. 19. | Bunit Clay | - | 75.85 | _ | Partly | - | do | 5 | 4.6 | Decay - Split | _ | _ | | 5.00 |
| 20.2 | - | - | - | 56 | - | 1. | de | de West | 10 | 4. | - | 25.10 | _ | Yas | - | 1. | 5 | 0 | _ | _ | _ | | 3.00 |
| 20.3 | - | - | _ | 47 | - | 4 | 1910 | 4 East | 10 | Grave/ | - | 90 | - | All | _ | 1. | 4 | - | _ | - | | | 1 |
| 20.4 | - | - | 1 | 20 | - | 1 | 1911 | 4 4 | 4 | 4 | - | 25 | _ | Except | - | 4 | 3 | 0 | - | _ | _ | | 4 |
| 13000 | _ | - | _ | 60 | - | 1 | 1910 | 4 West | 4 | Lyons Stone | - | 90 | - | Yes | - | 1. | 4 | 0 | _ | _ | _ | | 1 |
| 20.6 | _ | - | - | 550 | - | - | 1900 | Mystic S.D. | do | and Cinders | Poor | 75 | - | All | Hary | 1 | 14 | 13.0 | Rot | God | _ | 87% will live 15 trs - Most of tres | 1 |
| 20.8 | - | - | - | 550 | - | 0.333 | 10 | 4 | do | Stone | Good | - | - | - | - | 1910 | 10 | 0 | _ | 4 | _ | rail changed - 3% grads 12 curves | 35.0 |
| 20.9 | | | | 35/20 | - | - | 1905-4 | Jookson, Ill. | 1. | - | - | - | - | - | Heavy | 1914 | 8 | 5.0 | Rail mour | Fair | - | | 3.00 |
| 20.10 | | | - | 185 803 | - | - | 1905-5 | Fulton, Teen. | J. C. | _ | - | - | - | - | - | 1909 | 4-6 | 7.5 | - | - | - | | 12.20 |
| 20.11 | _ | | | 6 Miles | - | - | 1905 | Dubugus, Ia. | do | _ | - | - | - | - | - | 1. | 6 | - | - | - | - | | 1 |
| 20.12 | _ | _ | | 5309 | | _ | 1901 | Louisiana | do | _ | - | - | - | _ | - | do | 3 | - | _ | - | - | | 1. |
| 20.13 | _ | | _ | 4000 | | = | 1904 | 40 | 1. | _ | _ | - | - | - | _ | 1. | 4 | 0 | _ | | - | - | 1.30 |
| 20.14 | | _ | | 7000 | | | 184-6 | MISSIESIADI | 10 | - | - | - | - | _ | - | 10 | | 0.05 | _ | - | - | - | 12.2 |
| 20.15 | _ | _ | _ | 432 | _ | _ | 1904 | 4 | 4 | | | - | | - | _ | 4 | 3-5 | 0.1 | _ | - | - | - | 1 |
| 20.16 | _ | _ | _ | 50000 | | | 1904-7 | Tennessee | 1. | _ | - | _ | - | - | _ | 4 | 5 | 4.0 | _ | - | - | | 1 |
| 20.17 | - | _ | | 3000 | | _ | 1903 | 1. | 4 | | | | - | - | - | 40 | 2-5 | 1.0 | - | - | - | - | do |
| 20.18 | _ | - | _ | 121383 | _ | _ | 1. | 4 | 1. | | | | - | _ | _ | 4 | 6 | 0 | - | - | - | - | 10 |
| 20.19 | _ | - | | 38400 | _ | _ | 1904 | 4 | 10 | | - | | | | - | 4 | 6 | 1.0 | - | - | - | | 4 |
| 20.20 | _ | - | _ | 26021 | _ | _ | 1905 | do | 4 | | | | | | - | 1 | 5 | 3.4 | - | - | - | | 10 |
| 20.21 | - | _ | _ | 19008 | _ | _ | 1904 | Omaho, Neb. | do | | | | | _ | - | 1 | 5 | 41 | - | - | - | - | 1. |
| 20 22 | - | - | _ | 20000 | _ | _ | 1903 | Ouboque To. | 4 | | | | | 三。 | | 10 | 6 | 0 | 13 | - | - | | do |
| 20.23 | - | - | _ | 200 000 | _ | _ | 1903.4 | Chicago | 4 | _ | _ | | _ | | | 4 | 5-6 | 0.01 | | - | - | | 10 |
| 20.24 | - | - | _ | - | - | - | - | | 40 | _ | _ | _ | _ | | | | | 0.07 | | | | | do |
| 20.25 | _ | - | _ | 275 | - | 0.5 | 1909 | Nantatee SI | 4 | Grand | | 90 | _ | t Treplated | | 1913 | 4 | 0 | _ | - | 10-12 | | 33.00 |
| 20.26 | - | - | _ | 274 | - | 10 | 1. | Fulton ky | 4 | 4 | - | 90 | _ | do | | 10 | 4 | 0 | | Good | | Continuous angle bars | 12.00 |
| 20.27 | - | - | - | 274 | - | 10 | 1910 | Greenville, Mass | 4 | Dirt | - | 75 | _ | di | | 10 | 3 | 0 | | 40 | | Wet a sind a | |
| 20.28 | - | - | Seasoned | 274 | - | " | 4 | Bloomington, 21/ | " | Rock | _ | 75 | _ | t Ticplated | _ | 10 | 3 | 0 | | do | | Weber joints Weber angle bars | do |
| 20.29 | - | - | do | 274 | - | 4 | 1909 | Lula, Miss. | 4 | Grarel | - | 75 | - | 1. | _ | 10 | 4 | _ | | _ | | 40" Tuder bars | 10 |
| 20.30 | - | _ | - | 6 Miles | - | - | | Omaha, Nob. | 4 | _ | - | - | - | _ | - | 1909 | 5 | _ | _ | _ | _ | Damages by derailment | do |
| 20.31 | - | - | - | 3080 | - | 0.52 | | Gibbs, Tenn. | 4 | Rock | - | 15 | - | None | - | 1914 | | 940 | to to once y | _ | 10.7 | orshalf of 1814 removals were good | 12.10 |
| 20.32 | '- | _ | | - | _ | _ | - | West Lines | 4 | - | - | - | - | - | _ | 6 | | | | | 8.5-9.5 | rar ryear more | |
| | @ Pre | iminary . | steaminy 2 | o per sq | . In. for | 5 hours. | - Pres | hminary Yal | COUNT S | 24 Inch for | - 1 hour | - Max | Pres | ore 100 | Poer so. | In for | - 1.51 | haure | | | | | do |

| | - | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 28 | 1 |
|-------|------------|-----------|------------------|---------------|-----------|-------------|-------|------------------|------------------------------------|----------------|--------|---------|-------|--------------------|--------------|------|-----|------|-------|-----------|--------|--|------|
| 20.33 | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 20.34 | 6.8.8 | Hewn | Steamed Seasoned | 176 | | - | 1897 | // | 1000 | | - | - | - | - | - | 1905 | 8 | 26. | - | - | - | | 1. |
| 20.35 | 1 | _ | 32030464 | 17346 GM | - | 0.5 | 1911 | Madison, Wis | | Gravel | Good | 75 | Cut | None | Aucroge | 1915 | 7 | 0 | _ | - | - | | 6. |
| 20.36 | | | | 50 | - | 100 | 4 | Hertford, Wis. | 1 | 4 | Good | 90 | Senw | Hot Plates | Heavy | 1914 | 3 | 0 | - | - | - | 1to partly decayed - 6% split | 27 |
| 20.37 | 1 | | | 50 | - | 4 | 4 | 4 | 4 | do | 4 | 90 | 1. | de | 4 | 4 | 1 | 0 | _ | - | - | 4 | |
| 20.38 | 1 | 100 | - | 209 | - | 1. | 1 | 4 | 1. | 1. | 1. | 90 | cut | Nexe | 1. | 1 | 3 | 0 | - | - | - | 28 portly decoyed - 3% split | |
| | 4 | · | desert. | 55 | - | 4 | 4 | 4 | do | 4. | 4 | 90 | 1 | A bleed | 10 | 1 | 1 | 0 | - | - | - | 4 | |
| 20.59 | de | Hewn | Seasoned | 300 | - | 10 | 1908 | M'loughlin, S.D. | 4 | 1. | - | 85 | - | Hone | - | do | 6 | 0.15 | - | - | - | Hone removed previous to 1913 | 6 |
| 20.40 | - | -, | | 7084 | - | - | 1907 | lowo - Dakoto | 1. | _ | _ | - | - | _ | - | 4 | 7 | 3.1 | Rot | _ | | - The second sec | 1 |
| 20.41 | - | Sawed | Seasoned Lyr. | 2.5 | - | - | 1897 | Morfolk, Va. | N S. | - | _ | - | - | Servis | _ | 1907 | 10 | 100. | _ | | | started to fail 1899 | 1000 |
| 10.42 | _ | - | - | 86 | - | 4% Solotion | 1902 | Beaument Tex | 8.C.+5.F. | Sand | Poor | 60 | cut | None | Herry | 1911 | 9.5 | 1233 | _ | | | Sharted to Buil 1909 | 16 |
| 20.43 | - | - | - | 20 | - | 2.35 | 1 | 4 | 4 | 4 | 4 | 60 | 4 | 4 | 1. | 1909 | 7.5 | 100. | | | | | 11 |
| 20.44 | - | - | - | 2 | - | - | 1. | 1 | 1. | 4 | 1 4 | 4 | 4 | 4 | 1 | 1912 | 10 | 50. | | | _ | 20 1909 | |
| 20.45 | - | - | - | - | - | 0513 | 1903 | _ | Wabsolt | | _ | _ | _ | | 100 | 1908 | 5 | Sex | - | - | - | 2 1906 | |
| 0.46 | - | - | | 155574 | - | - | 1 | _ | 6.7. | | | | | | 100 | | 19 | | | - | 5-6 | Railcut - brittle | 1 |
| 0.47 | - | - | | 10 | - | - | 1905 | Tampia Div. | Mex. Cent | | | 1000 | | | - | 1. | 5 | - | - | - | retion | - | |
| | ZINC CR | EOSOTE | - CARD | | | | 100 | 1 | | 100 | | - | _ | _ | - | 1914 | 9 | 10 | Decay | - | - | - | 3 |
| 21.1 | _ | - | _ | 545 | - | assine | 1909 | Lines East | cara | Cinders Graves | 1 | 75.85 | | - 11 | | 1 | | | 100 | | | | |
| 12 | | - | | 102 | | | 10000 | 1 | 4 | Conders Grave | - | 1000000 | - | Partly | _ | 1914 | 5 | 1.8 | Split | - | - | | 3 |
| 1.3 | _ | _ | _ | 220 | | 1 4 | 1908 | | | Gravel | - | 90 | | OnCorras | - | 10 | 6 | 0 | - | - | - | | |
| 1.4 | _ | | | 110 | 12 | 1 7 | 1911 | 1 3 | 10 | de | _ | 90 | - | All | - | 4. | 4 | 0 | _ | - | - | | 100 |
| 1.5 | | | | 292 | | 1 | 10000 | 1 1 | 4 | 2-1-0-1 | - | 75 | - | inder jours | - | 1 | 3 | 0 | - | - | - | | 1 |
| 1.6 | | | 1 2 2 | 211 | | 4 | 1909 | Lines Wast | | Bornt Clay | - | 85.90 | - | 165 | - | 1 | 5 | 0.67 | - | - | - | | |
| 1.7 | 72928.5 | Sawa | recled and | | 5.55 Zine | 1. | 1910 | 11. | 1. | Lynn Store | - | 90 | - | 4 | - | 1. | 4 | 0 | - | _ | _ | 2% split | |
| | , -, - 0.0 | Hemn | seasoned | 1257 | 5 th Greo | 252 12 inc | 1911 | Windsor, Ohio. | 8+0. | Gravel | Good | 90 | Cut | Shoulder Flange | Fairly Houry | 1915 | 7 | 0 | - | _ | _ | 1 | |
| | ZINC CRE | FOSOTE | -LOW PRE | ESS/IR | | | | | | | + | | | - | | | 811 | | | | | | 7 |
| 2.1 | 6"x8"x8" | Hewn | Air Seasoned | 198 | | 246-055 | | -1.11.1 | | , | | less. | , | | | | | | | | | | |
| 1.2 | 4 | 1. | | | _ | sag Creo | 1909 | Toylorsille lade | THE RESERVE OF THE PERSON NAMED IN | Graval | Fair | 65 | Cut | None | Light | 1914 | 5 | - | _ | 9/25 Good | - | | 23. |
| 2.3 | 2 | 100 | 24 | 50 | - 9 | 15.3 | 1911 | Hartford, Wis. | C.M.YST.P. | do | 6000 | 90 | Scrow | Flot Platas | Heavy | 4 | 3 | - | _ | _ | - | 4% Occayed 12% split | 27 |
| 2.4 | 7'18'.8' | 10 | de | 50 | | - | " | 14 | de . | 4 | 4 | 90 | cut | Nore | 10 | 4 | 3 | - | _ | _ | _ | 4 | 1 |
| ~-7 | 1.00 | ~ | 4 | 250 | 18 2100. | - | 1906 | Louisiona | B.H. +5. A | do | - | 80 | 10 | Q. +W. | _ | 6 | 8 | 1.6 | _ | _ | _ | slight decay | 7. |
| . ! | | | NELL HOUS | | | | | | | | | | | | | | | | | | | Organ Lettag | 1 |
| 1 | LACH OAK | Index No. | 1. 15.1 15 15 | 9 Inch | - | - | - | - | - | _ | _ | - 1 | - | _ | _ | _ | _ | _ | 29.0 | - | | | |
| 3./ | _ | - | - | 48 | - | - | 1882 | Topako, Kas. | ATYSE | - | - | - | _ | _ | | 1891 | 9 | 39.6 | _ | _ | | | |
| 3.2 | - | - | _ | 10 | - | 0.35 | 1902 | Sesument, Tax | OC+SF. | sand | Poor | 60 | cot | None | Heavy | 1909 | 7 | 100. | _ | | | Storted to fail 1909 | 2. |
| | - 3 | | | | | | | | | | | 600 | - | | ,,,, | .,., | | , , | _ | - | | Stelles 18 TOIL 1909 | 11. |
| | | | | | | | | TABLE | 21 | DAK-SH | PANISI | 4 | | | | | | | | | | | |
| | SALTS, B. | ARSCH | ALL HAS | Total Control | MM | | TRA | | | | | 1.3 | | | | 1 | | | | | | | |
| 1.1 | - | - | | 20 | - | - | 1902 | Beaument, Tex | 6.C.75.F | Sand | Poor | 60 | cut | None | Heavy | 1908 | 6 | 100 | | 1 | 5 | watife colonisted by smeet some | |
| 200 | UNTREAT | TED | 0 | | | | | | | | | | 200 | | | | | 1 | - | | 3 | And life exteriol and by forest service | 11. |
| 2./ | - | - | _ | 20 | _ | - | 1. | 4 | 4. | 4 | do | 60 | 4 | 4 | 4 | 4 | 6 | 100 | - 8 W | 200 | 51 | | |
| | ZING CA | EOSOTE | -ALLARD | YCE | | | | | | 7495 | | | 100 | - | - | ~ | | 100 | - | - | 5.4 | - 4 | - |
| 1/ | - | - | - | 10 | _ | 0.24 ZING | 1. | 1. | 1. | 1. | 1. | 60 | " | 4 | , | | | - | | | - 1 | -/ / / / / | |
| | ZINC TAI | WIN - V | VELL HOUS | SE | | | 1 | | | 1.5 | - | 00 | " | " | 4 | 1912 | 12 | 50 | - | - | - | Started to fail 1911 | - |
| 41 | - | _ | | 20 | | 0.33 | 4 | 10 | 10 | 1 | 1 | | , | , | 1 9 | | 1 | | | | | | |
| | | | | 1000 | | | - | | | * | 10 | 60 | 1. | do | 10 | do | 10 | 45 | 1000 | | 1000 | 4 | - |

0-Max Pressure 200 # per 3g.lm. at 160 % for 4.38 Hours.

@ Preliminary Intens 22 Inch before sine Treatment and 25 Inch before Crossite Treatment - time 65 minutes - Max. Temperature 185º F. - 160° F for 4 hours 20 minutes and 9 hours

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

@ - Max. Pressure 45 # per 5g.lm. - Max. Temperature for Crossite 4.12° F. for time 185º F. - Time Crossite Communities

Crossite Comm

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | AZ | 20 | 24. |
|------|----------|------------|--------------|-------|---|-----------------------|------|-------------------|--------------|---------------------------------|---------|-------|------|----------------|--------|------|-----|------|----------|----------|----|------------------------------------|-------|
| | | | | | | | | | | DAK-5H | FDIS | | | | | | | | | | | | |
| | UNTREA | TEO | | | | | | | | ,,,,, | 20,0, | | | | | - | | | | | | | |
| 5.1 | - | - | - | 13000 | - | - | - | Denmark | Natichan (RR | | | _ | - | - | - | | " | 62 | | - | _ | - | 9.00 |
| | | | | | | | | | | DAK-TU | PKEY- | - | | | - | | | | | | | | |
| 06.1 | _ | _ | <u> </u> | 19 | _ | - | 1902 | Beaumant, Tex | 0.C.+S.F. | sand | Poor | 60 | cut | None | Heavy | 1906 | 4.5 | 100. | - | <u>-</u> | 3 | started to fail 1905 | 11.00 |
| 07.1 | UNTREA | - | | 20 | _ | _ | 4 | 10 | 4 | 4 | 4 | 60 | 1. | 4 | 4 | 1909 | 6 | 100 | _ | _ | 43 | 96% removed 1906 | 1 |
| 8.1 | ZINC CH | LORIOE | - BURNE | 77 | | 0.35 | 4 | 4 | 4 | 4 | 4 | 60 | 4 | 4 | 4 | 4 | 7.5 | 100 | _ | _ | | sharted to fail 1909 | 1 |
| | ZINC CI | 9E0307 | = | | | | | | | | | | | | | | | | | | | | |
| 9.1 | ZINC CR | EOSOTE | ALLARD | VCE | - | 0.50 | 1. | 10 | 1. | 1. | 4 | 60 | 4 | 4 | 1 | 1905 | 5 | 100 | Mailant | _ | - | 4 1905 | 1 |
| 10.1 | _ | - | - | 10 | - | 0.24 Zinc 30 0000. | do | 1. | 4 | 4. | 4. | 60 | 6 | 4 | 4 | 1912 | 10 | 10 | - | - | - | 20 1911 | 4 |
| 11.1 | ZINC TA | - NAIN - V | VELLHOU - | 20 | _ | 0.33 | 4 | 10 | 4 | 4 | 4 | 60 | 4 | 4 | 4 | 4 | 10 | 90 | | _ | _ | 4 1909 | 1. |
| | | | | | | | | | | -04K - W. | ATER | | | | | | | | | | | | |
| | | | VLL CE | | | | 1 | | | | | 100 | . , | | | | | | | | | | |
| 12.1 | 7"49" 85 | | BURNET | 50 | - | 17.4 | 1910 | Burminghes, Ab | 6.5. | 5/09 | 6000 | 75 | Cut | None | _ | 1912 | 2 | 0 | _ | _ | _ | - | 5.10 |
| 13.1 | _ | - | - | 2 | - | - | 1902 | Beaumont, Tex | G.C.+5.F. | Sand | Poor | 60 | 40 | 4 | Heavy | 10 | 10 | 0 | - | - | - | . — | 11.00 |
| | | | | | | | - | | | OAK- | 415515 | SIP | PI V | VHITE | _ | | | | , | | | | |
| 14.1 | UNTREA | TED | Seasoned | 274 | _ | - | 1909 | Fullen Ky | 1.0 | Bravel | _ | 90 | _ | t Tieglate | _ | 1913 | 4 | 20 | Decay | _ | - | continuous angle bars | 12.00 |
| | | | | | | 1 | | | | -OAK- | TENNE | SSE | - 0 | HITE | | | | | | | | | |
| | UNTREA | TEO | | | | | | | | DAM. | | | | | | | | | | | | | |
| 15.1 | - | - | Seasoned | 274 | - | - | 1909 | Follon Ky | 1.0. | Gravel | - | 90 | - | t Trepleter | - | 1913 | 4 | 5.4 | Decay | - | - | Continuous angle bars | 12.00 |
| | | | | 9-2 | | 1 | | TABL | E 22 | OAK- | WHIT | E | | | | | | | | | | | |
| 1.1 | CREOSO | | _ | 15 | _ | - | 1910 | Hangrer, Til. | c. a. rq. | shorden around | _ | 90 | _ | Toplate! | _ | 1912 | 2 | 0 | _ | _ | _ | | 5.00 |
| 1.2 | - | - | - | 10 | - | - | 4 | Blanding, Ill. | 4 | 10 | 4-1- | 90 | - | Yes | - | 10 | 2 | 0 | = | = | = | | 1. |
| 1.5 | = | _ | Seasonal Ilm | 200 | = | 0 | 10 | Borr, Colo. | St. t.S.W. | Lyans Stone | Mry dry | 90 | _ | - | = | 1914 | 4 | 0 | \equiv | Good | - | Piled zyrs after treating | 30.10 |
| 021 | | | ALL HAS | | ř | 1 | 1000 | Beaument Tex | | cond | Poor | 60 | Cut | None | Heavy | 1912 | 10 | 95. | 1 | | 6 | shorted to fail 1906 45% out by 1. | 11.00 |
| 2.7 | UNTRE | ATED | - | 196 | - | - | | | | Sand | 2007 | | 201 | | 711114 | | na | | | | | | |
| 3.1 | - | - | _ | 56 | = | = | 1909 | Lines East | C8.79. | Graders Brovel Bornt Clay Brave | = | 90 | _ | Portly Full | = | 1914 | 2 | 3.8 | = | = | = | 25% Partially decayed | 500 |
| 3.3 | = | = | = | 25 | = | | 1909 | The second second | 1 | Craders Grave | | 75.00 | | Yes | _ | 12 | 5 | 0 | _ | _ | _ | | - 4 |
| 34 | - | - | - | 24 | - | _ | 1910 | | 1. | Stone- Burnt Clay | - | 25-90 | _ | 1 | _ | 1. | 1 | 1 | - | - | - | - | - 1. |

| - | | | | | | | | | | | | _ | - | | - | | | | - | | | | - |
|--|----------|---------|----------------|---------|-----|--------|--------|----------------------------|-------------|------------|------|----|-----|-------------------|-----------------|------|------|------|------------|--------|-------|---|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 9 | 10 | // | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 35 | - | _ | _ | 65725 | - | - | 1902 | New York | PSIN | - | - | - | - | - | - | 1114 | 12 | 60 | Decey | - | - | Individes Tellem Pine Renewals began 1911 | 142 |
| 3.6 | - | _ | - | 32256 | - | - | 1909 | 4 | 4 | - | - | - | - | - | - | de | 5 | 0 | | - | _ | * | 1 10 |
| 3.7 | _ | - | _ | 20219 | - | - | 1902 | Pennsylvania | 4 | - | _ | - | - | - | - | 4 | 5 | 40 | Decay | - | - | 4 | 10 |
| 38 | - | _ | _ | 137000 | - | - | 1904.6 | 0.0 | Hest nyten | _ | - | - | - | - | - | 4 | 8-10 | 56 | - 3 | | | J. | 1.86 |
| 39 | _ | - | - | 179534 | - | - | 1905 | Illinois | CBrg. | = | _ | - | - | - | - | 1910 | 5 | 4.8 | - | | - | 111. 2.10-1 | 1.10 |
| 3 10 | _ | - | _ | 55500 | - | - | 1899 | do | CITS. | _ | - | - | - | - | _ | 1909 | " | 40 | - | | = | Inchides Red Oak | 12.20 |
| 3.11 | _ | - | _ | 38400 | - | _ | 1906 | Vicksburg | 1.0 | _ | - | - | - | 1 T | - | - | 3 | 1 | _ | | - | | 1.00 |
| 3.12 | 1- | _ | - | 8400 | - | _ | 1901 | Memphis | 4. | _ | _ | - | - | - | = | 4 | 8 | 73 | - | | 3.5 | Average life estimated by Forest Series | |
| 5.13 | 7.9.9 | - | - | 12800 | - | _ | 1902 | do | 4 | _ | - | | - | _ | - | 4 | 7 | 09 | _ | - | | | 4 |
| 5.14 | 7-9-18.5 | - | _ | 12800 | - | _ | 4 | do | 4 | _ | - | - | - | - | | ~ | | 1000 | 1 | | | | 4 |
| 315 | _ | - | _ | 2/00 | | - | 1906 | Burning ham | 4 | _ | - | - | | | = | ~ | 6 | 30 | - | _ | | | 4 |
| 3.16 | _ | - | _ | 1800 | | - | 1903 | Tennessee | - | | - | | - | | _ | 06 | 7 | 21 | | | 700 | | |
| 3.17 | _ | - | | 9/376 | - | - | 1902 | Louisville | 4 | - | 150 | | | - | _ | 4 | 250 | 40 | = | 180 | = | | 1 |
| 5.18 | - | - | - | 4/3424 | | _ | 1899 | Omoka | 4 | | | | 1.3 | | | 1 | 9 | 13 | _ | | Ξ | | de |
| 3./9 | - | - | _ | 59400 | - | _ | 1900 | Oubuque | 4 | - | | | _ | | _ | 4 | 11 | 33 | _ | | | | do |
| 5.20 | - | - | | 25344 | | - | 1898 | Fulton X4. | 4 | Grava/ | | 90 | | L'applier | | 1413 | 4 | 5:4 | Decay | | | 1% broken - Continuous Angle bars | 12.00 |
| 3.2/ | _ | _ | Seasoned | 274 | _ | | 100 | . / | 10 | do | | 90 | - | Lohomy | _ | 1 | 4 | 20. | 16 | Notand | | 0.9% do do | 40 |
| 3.22 | - | | do | 274 | | | 40 | Lula, Miss. | 1 | New Grave! | | 75 | | 1 Treplated | | 2 | 4 | 10. | _ | _ | _ | Dumayed by derailment 40 Todar bars | do |
| 3.23 | _ | - | de | 274 | 7.5 | | de | | 4 | do | | 75 | | Sellers | | 2 | 4 | | _ | | | 10 10 | 4 |
| 3.24 | _ | - | 4 | 274 | - | - | 40 | do | | old Roch | - | 90 | | t neplated | | 1. | - | 0.5 | Decay | _ | | Continuous Angle Bars | 10 |
| 3.25 | - | | 40 | 547 | | | 1910 | Hannakee, Ill. | 4 | Old Gravel | | 75 | | Troplated Sollers | \equiv | 4 | 3 | 0.4 | 4 | | | Weber Angle Bars | de |
| 3.26 | | | 4 | 274 | | 1000 | 4 | Blooming to Ill. | 2 | do do | | 90 | | | | 1 | 3 | 0.4 | 4 | | | do | 4 |
| 3 27 | | _ | 4 | 274 | | | 1899 | Towa | 1. | - | | /- | | do | - | 1910 | 11 | 50. | | | | - | 1.10 |
| 3.28 | - | | _ | 351,600 | | _ | 1906.7 | Arkonsos | CRIP | | | | | | | do | 3-4 | 11. | | | | | 10 |
| 3.29 | _ | | | 101 700 | | | 1903 | Texas | do | | E () | | | | | 1 | 7 | 92 | | _ | | | 10 |
| 3 50 | | = | | 318100 | | | 1906-7 | Arkansas | 1 | | | | _ | | _ | 1. | 7-4 | 12 | | | _ | | 1. |
| 331 | _ | | | 137200 | | | 1907 | 4 | 1 | _ | _ | _ | _ | | - | 4 | 3 | 9. | _ | _ | _ | | do |
| 533 | | | | 95900 | | _ | 1903 | Louisiona | 4. + Art. | _ | _ | | | | _ | 1. | 7 | 55. | _ | | | Includes Post Oak. | 10 |
| 3.34 | | | | 342400 | | _ | 1905 | Mo. + Ark | 911M+5 | _ | | _ | | _= | | 1. | 5 | 30. | | _ | _ | | 1. |
| 3 35 | | | | 9758 | | _ | 1902 | Messeuri | MR.+ B.T. | | _ | _ | | _ | _ | 1 | 8 | 52. | _ | - | 79 | | 4. |
| 3.36 | | | | 16915 | _ | _ | 1901 | Pennsylvania | P.YR. | | | _ | _ | _ | _ | 4 | 9 | 94. | _ | _ | 0.6 | All out by 1910 | 105 |
| 3.37 | | - | | 50 | | _ | 1907 | Janesville, Wis | CHAM | Gravel | Good | 90 | Cut | None | _ | 1915 | 7.5 | 36.0 | Decay | _ | _ | Al Partly decayed | 20.00 |
| 3.38 | = | Henn | Seasoned 14 Mo | 300 | _ | _ | 1897 | THE PERSON NAMED IN STREET | N. +5. | | _ | | | _ | _ | 1912 | 13 | 100 | _ | _ | 8.6 | Storted to fail 1900 Allout 1910 | 16.00 |
| 3.39 | - | | _ | 196 | _ | _ | 1902 | | 6.C.T.S.F. | Sond | Poor | 60 | cut | None | Heavy | | 10 | 85 | _ | _ | 6.75 | Started to fail 1908 | 11.00 |
| 3.40 | 72920.5 | 1 | Seasoned | 760 | _ | - | 1911 | Windser Ohio | 8.to. | Gravel | Good | 90 | Cot | Shoplder | Fairly Heavy | 1915 | 4 | 0 | _ | _ | - | | 4.00 |
| 341 | | | do | _ | | _ | _ | _ | 6.8.70 | | _ | _ | _ | | _ | _ | _ | _ | _ | _ | 10.0 | 90% of follores due to decay | 33.00 |
| X 42 | _# | _ | _ | 57000 | _ | - | 1896 | Michigan | 1.5 + I | _ | _ | _ | - | _ | _ | 1910 | 14 | 100 | - | _ | _ | | 1.10 |
| 3.43 | 71918 | _ | _ | 75 | _ | - | 1911 | congill, Mo. | C.H. TSH.P. | Burnt Clay | Good | 15 | Gut | None | Heavy | 1915 | 4 | 0 | _ | _ | - | | 600 |
| 3.44 | 6:8:8 | _ | _ | 280 | - | _ | 10 | Draymer, Mo | 1 | 16 | 16 | 85 | de | 1 | 4 | 1 | 11 | - | - | _ | - | | 1. |
| 345 | 4 | _ | _ | 500 | _ | - | | | | Grave/ | 26 | 85 | do | do | 4 | 1. | 12 | 644 | Decay + | - | 11-12 | First remised in 1913 | 1 |
| 5.46 | | | Seasoned | | | iged f | | eports of | | roads | | | | | | | | + - | | | 8.25 | Any for Southern States 5 to 6 yrs | 33.00 |
| See | CYPRESS | Inder M | s 436 - 4. | 38 | 1 | i ' | | | | | | | | | | | | 1 | | | | | 7 |
| See | POST OAK | | | 1 | | 1 | 1 | | | | | | | | | | | | 7 | | | | 1 |
| | W000 T. | | | | | | | | | - | | | | | 4 | | | | | 16 | | | |
| 4.1 | _ | _ | _ | 104 | _ | - | 1892 | XX. + Phila | A. System | _ | - | - | - | _ | _ | 1914 | _ | 100 | Decay | _ | 7.0 | | 20.10 |
| | W000 T | 1 | OSOTE - DI | | | 1 | | | | | | | | | | | | | | | | | |
| 5.1 | _ | _ | - | 475 | _ | - | 1577-8 | 1. | 1 | 120 | - | - | - | _ | - | 1 | _ | 100 | Wear Under | - | 1 | - | 4 |
| - C. | | | | | 100 | 1000 | 1894 | Altoono, Po. | 1 | 10000 | | | | ALLEY | | 1. | 100 | 1100 | 12 + | - | 1.0 | Dipped I Hour | 4 |

| 1 | 2 | 3 | | 5 | 1 | 7 | Ta | 9 | 1 | T | | - | - | 1 | 1 | 1 | _ | _ | | _ | - | | |
|-------|----------|---|-------------|---------|--------|------------------|---------|----------------|--------------|-----------------|----------|-------|-----|----------|-------|---------|-----|------|-----------------|--------|------|--|-------|
| | | - | 7 | - | 6 | + / | 8 | 7 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | | | SOTE - DIP. | _ | T | | 1 | | The same of | | | | | | | | | | | | | | |
| 6.1 | | - | _ | 70 | - | - | 1895 | N.Y. Y Phila | Pasysta | - | - | - | - | - | - | 1914 | - | 100 | Decay | - | 5.5 | | 20.1 |
| | W000 7 | AR CREO | SOTE - DIPE | | | | | | | | | - | | | | | | | 1156 | - | | | |
| 7.1 | - | - | - | 348 | - | - | 406-7 | 1 | 4 | - | - | - | - | - | - | de | - | 100 | 4 | - | 4.0 | | 1 |
| 7.2 | - | - | - | 600 | - | - | 1 | Santes + Tento | 4 | _ | - | - | _ | - | - | 1 | - | 100 | 10 | - | 5.5 | | 1 |
| 7.3 | 100000 | - | _ | 86 | - | - | 1897 | 1 | 1 | - | - | - | - | - | - | 1 | - | 100 | Wernout | - | - | | do |
| | WOOD TA | R CREOS | OTE - BRUSI | 1 | | 1 | | | | | | | | | | 1 | | | | | | | |
| 8.1 | - | - | - | 551 | - | - | 10445 | 1 | 1. | _ | - | - | - | - | _ | 4 | _ | 100 | Decay | _ | 5.8 | | de |
| 8.2 | - | - | - | 204 | - | - | 1897 | Ballimore, M. | 1. | _ | - | - | _ | _ | _ | 1 | _ | 100 | Wonneut + Oscay | _ | 9.0 | | 1 |
| 8.3 | - | - | - | 586 | - | - | 14 | 10 | 1 | _ | _ | - | _ | - | - | 4 | _ | 100 | Decay | _ | 8.0 | | 4 |
| 8.4 | * | - | - | 597 | - | - | 1077-8 | 4 | 1. | - | _ | - | _ | _ | _ | 4 | _ | 100 | 4 | _ | 9.0 | | 10 |
| 8.5 | - | - | - | 72 | - | - | 188 | 1 | 4 | - | - | - | - | _ | _ | 1 | _ | 100 | 4 | _ | 9.0 | | 4 |
| 8.6 | - | - | _ | 541 | - | - | 1877-8 | 4 | 1 | - | _ | _ | _ | _ | _ | 4 | _ | 100 | 1 | _ | 95 | | 1 |
| 8.7 | - | - | - | 252 | - | - | 1898 | 10 | 16 | - | _ | _ | _ | _ | 2 | 4. | _ | 100 | 10 | _ | 10.0 | | 1 |
| | ZINC CI | YLORIDA | - BURNE | TT | - | | | | | | | | 9 | | | 1000 | 177 | | | | | | |
| 9.1 | - | - | _ | 15 | _ | 0.5 | 188-10 | Hanner Ill | C.O.+Q. | Sheriden Grove! | _ | 90 | _ | All | _ | 1907-12 | 2 | 0 | | _ | _ | | 5.0 |
| 9.2 | - | - | _ | 10 | _ | 1 | 1945-10 | Blanding III | 1. | 1. | _ | 90 | _ | 4 | _ | 1. | 2 | 0 | | | - | | 3.0 |
| 9.5 | _ | - | - | 15 | - | 1 | 104-10 | Barr Colo | 6 | Lyons Stone | _ | 90 | _ | 4 | _ | 1909-12 | 2 | 0 | | | | | |
| 9.4 | - | - | _ | 101 | _ | 0.26 | 1902 | Browment, Tou. | BC.TS.F. | Sond | Poor | 80 | cut | None | Heavy | 1912 | 10 | 64 | | | 2 | started to fail 1911 | do |
| 9.5 | - | _ | _ | 100 | _ | 0.35 | 1 | 4 | 4 | 4 | 4 | 60 | 1 | 1 | 4 | 1909 | 7.5 | 100 | | | | 18% Pailed 1908 | 11.0 |
| | ZINC CI | REOSOTE | -ALLARO | YCE | | | 200 | | | | - | | | | _ | 1707 | 1 | 100 | | | 4.18 | 82% roiled 1908 82% 1909 | do |
| 10.1 | _ | | _ | 100 | _ | 20 Creo | 1 | 1 | 1 | 1 | 4 | 60 | 1. | 4 | 1 | 1912 | | | | | 100 | | |
| | ZINC C | REOSOTE | - BEAUNG | | | J.O Creo | - | | | | - | | | - | - | 1912 | 10 | 71 | _ | - | - | Started to fail 1908 | 10 |
| 11.1 | | _ | _ | 107 | _ | a3ZING | do | 4. | 4 | 4 | 4 | 60 | 4 | 4 | , | | | | - 1 | 100 | | | |
| | ZINC C | | E-CARD | ,,, | | | - | | - | " | " | 00 | " | | 4 | 1905 | 3.5 | 100 | - | - | 2.15 | 10 1905 | 4. |
| 12.1 | _ | _ | | 162 | - | Brzine 30000. | 1909 | Lines East | C.8+Q. | Conders Grace | | 25.65 | 1 | - 4 | 1 | | | | | | | | |
| 12.2 | _ | _ | _ | 376 | | | 1908 | | | | | | - | Partly | _ | 1914 | 5 | 5./ | study spirt | - | - | - | 5.0 |
| 12.3 | _ | | | 75 | | 2 | 1910 | | de | Bravel | _ | 90 | - | All | - | 4 | 6 | 0 | - | - | - | | de |
| 12.4 | | | | 92 | | | 10000 | | 1 | reden Com | | 90 | - | 4. | _ | 4 | 4 | 0 | - | - | - | | 1. |
| 12.5 | | 1 | • = | 60 | _ | | 1909 | 4 West | -4 | Caders Grand | _ | 15-90 | - | 4 | - | 4 | 5 | 0 | - | - | - | | 1 |
| 74.0 | ZINC TO | NNIN- W | ELL HOUSE | . 60 | - | 1 | 1910 | 4 4 | 4 | Lyons Stone | Very Dry | 90 | - | 4 | - | " | + | 0 | - | - | - | | do |
| 13.1~ | 2002 | 111111111111111111111111111111111111111 | ELL HOUSE | | | | | | | | | | | 1.5 | 1 | | | 33.7 | | • | | The state of the s | |
| 15.2 | | | _ | 100 | 7 | 0.35 | | | 6.C. + S. F. | Sand | Poor | | Cut | None | Heavy | 1912 | 10 | 5 | _ | - | - | Started to fail 1908 | 11.00 |
| | | - | | 100 | - | 0.33 | 4 | 20 | 4. | 10 | 6 | 60 | 4 | 1. | 4 | 10 | 10 | 12 | _ | _ | - | 4. | 4 |
| | cure o | | LL HASSE | | | | | | -0 | AK - WILL | ow- | | | | | | | | - | | | | |
| 14.1 | 3AL13-0 | AKSCHA | LL HASSE | | | | | | | | | 500 | | | | | | | | | | | |
| **/ | | | _ | 20 | _ | _ | 1901 | Barrener Tex | 6.C. +5.F | Sond | Poor | 60 | cot | Hoos | Hary | 1906 | 4.5 | 100 | - | _ | - | Started 15 fail 1905 85% removed 1905 | 11.0 |
| | UNTREA | TED | | | | | | | | | | | | | | | | | 1 | | | | |
| 15.1 | | _ | 100000 | 20 | - | _ | 10 | ~ | 4. | 1. | 10 | 10 | do | 10 | 10 | 10 | 4.5 | 100 | - | _ | _ | 4 75% 10 | 1 |
| | ZINC CHE | ORIDE - | BURNETT | | | The last | | | 100 | | | | | | | | 1 | | | | | | |
| 16.1 | _ | - | - | 20 | - | 0.35 | 1. | 4 . | 4. | 1. | 1. | 1. | 4 | 4. | 10 | 1909 | 7.5 | 100 | _ | _ | _ | Started to fait 1909 | do |
| | ZINC CRI | OSOTE - | ALLARDYC | E | | | 0 1 | | 9 | - | | | | | | | | | | | | | |
| 17.1 | _ | - | - | 10 | | 20 Creo | 4. | 4. | 1. | 4 | 4 | 4 | 4. | 4 | 4 | 1911 | 9. | 100 | _ | _ | _ | | |
| 17.2 | - | - 1 | - | 11 | - | Nemy creo. | 1. | 10 | 10 | 10 | 4 | " | 4 | 4 | 4 | 17.7 | | 100 | = 1 | | | Started to fail 1905 | - |
| | ZINC TAI | YHIN - W | ELLHOUS | E | | , | | | | | | | | - | | ,,,, | - | | | | | Janes 18 1911 1905 | 4. |
| 18.1 | - | - | - | 20 | - | 0.33 | 4. | 4 | 1. | 1. | de | 4 | 1. | 1. | 4 | 1911 | 0 | 100 | | Part I | - | 04444044 | |
| 18.2 | 7"49" 8" | - | - | 35 | _ | _ | 1910 | Ensley, Ala. | T.C.+ICo. | _ | _ | _ | | Oncornes | | 1914 | 1 | 20 | | _ | - | Storted to fail 1908 40% removed 1908 | 4 |
| | | | | | | | | , | | | | | | | | ,,,, | - | 40 | - | | _ | 49% Partially docayed | 21.00 |
| | | O A | varage life | - estim | ated h | Le Fares | 1 | | | | | | | | | | | _ | | | | | |

| 1 | 2 | 5 | 1 | 5 | 6 | 1 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 2/ | 22 | 23 | 29 |
|-----|---|-----------------------|--------------|-----|---|----|-----------------------------|-------------------------|------------------|---------|----|----|-------|-------|----|------|-----|----|----|----|----|----|--------------|
| 1.1 | | REATA Sawn Henn | Air secsoned | 108 | = | =- | ABI 1910 1910 1910 | E 22a Hukhisson cold | ATTOSE ATTOSE | Rock do | = | | Screw | 7/2.9 | = | 1915 | 5 5 | 0 | = | = | - | | 4500 4500 |
| | | | | | | | | | | | | | | | | | + | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 4 | | | | | | | | | | | | | | | | | | | |
| | * | | | | | | | - 4 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 1. | | | |

| , | 2 | 3 | 1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 12 |
|----------|--------------------|---------|----------------|-----------|----------|----------|--------|---------------------|---|--------|--------|-----|-------|-----------------------------------|-------------|------|------|-------|--------------|-----------------|-------|--|-----|
| | CARROLL | | | | | | | TAL | BLE 20 | 3 PINE | | | | | | | | | | | | | + |
| , | CARBOLI | TUM | | | | | 1 | | | | 100 | | | | | | | | | | | | + |
| ., | CARROLL | IFIIM - | VENARIUS | 10 | - | - | 1905 | Томрисо Вини | Mex. Cont. | - | - | - | - | - | Breach Line | 1914 | 9 | 90 | Docay | - | about | | _ J |
| 2.1 | CHABOLIII. | | TEMANUS | 84 | | | | | | | leave. | | 1. | | | | | | | | | | |
| | COPPER . | SUIPHA | 75 | 04 | - | - | 1403 | Browment, Tex | 6.C. + S.F. | Sand | Poor | 60 | Cut | None | Heavy | 1909 | 4 | 91.7 | _ | - | - | started to fail 1906 | 11 |
| 7./ | 5.1 -10.2 - 8.53 | _ | T _ | 284511 | _ | a4 Dry | _ | France | Southern | | | | | | | | | | | | | | |
| | COPPER S | ULPHAT | -STEEPIN | | | 10.7 | - | 774776 | Source na. | - | - | - | - | - | - | - | - | - | Decey - Wear | - | 0-10 | - | 1 |
| 2./ | 64 - 104 - 8 - 104 | _ | _ | 32348 | - | - | 1852-3 | Germony | Aschen A | | - | 12 | _ | 1 | _ | | | - | | 1 | | | 1 |
| | CREOSOT | E | | 1444 | | | | | ausensen na | | | | | 1000 | _ | 1864 | " | 52 | - | - | 9.6 | _ | 13 |
| -/ | | - | _ | - | - | 12 | 1904 | _ | N.C.5 Ry | _ | _ | - | _ | _ | NEW T | 1908 | # | _ | | | 4-10 | Necessity and - Terren | , , |
| 7.2 | - | - | - | 16000 | - | - | 1907 | - | Flo. E. Cont. | _ | _ | _ | _ | _ | | 1 | 7 | 0 | | | 7-70 | No results yet - Ties removed were main | 2 1 |
| 3 | - | - | - | 17 | - | - | 1905 | Татрко Внаже | Mex. Cont. | _ | _ | - | _ | _ | Sauch Line | 1914 | 9.5 | 0 | _ | | = | | 1 |
| 4 | | - | _ | 11 | - | - | do | de | 1. | _ | - | - | - | - | _ | 1. | 9.5 | 0 | _ | _ | = | | 3 |
| 5 | 7 . 1 . 8' | _ | - | 6000 | - | 10 | 1894 | Pair Hover Conn. | MINHTH | - | - | 100 | Cot | None | Memline | 4 | 19.5 | 100 | _ | _ | 16 | Ag. Like estimated by Forest Sernes | |
| 7 | 64.10.8-10 | - | - | - | - | - | - | France | - | - | - | - | - | - | - | - | - | - | _ | - | 20 | Untreated life 7 to 8 years | 10 |
| 8 | do do | . — | - | - | 50.6 | - | - | Germany | German Union R.R. | - | - | - | - | - | - | 1896 | - | - | - | - | 20 | | 13 |
| 9 | 20 | | - | _ | 79.2 | = | = | do | do | - | - | - | - | - | - | de | - | - | _ | - | 23 | - | |
| 10 | | | = | 150 000 | = | | 100 | _ | German R.R. | - | - | - | - | - | - | - | - | - | - | - | 20 | | 12 |
| 11 | Bridge Ties | | _ | 15000 | 12-18 | 10 | 1880 | = | H.+T.C 4.+N. | - | - | - | cut | 9+W | - | 1906 | 26 | 92.5 | - | - | 19 | | 1 |
| 12 | do | _ | _ | 1893 | 20-22 | _ | 1879 | | do do | E | - | - | - | - | - | 1896 | 18 | 45-55 | Flood | - | - | Flood 1896-Records Lost | |
| 13 | _ | _ | _ | _ | _ | - | 1877 | Texas | HATC. | _ | - | | - | - | _ | 1905 | 16 | 72 | Spike Kild | - | - | | 10 |
| | CREOSOT | E-FUL | L CELL | | | | | , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | - | | - | | Heavy | 1897 | 20 | 20 | RailCut | - | - | | 2 |
| 1 | 5.1.10.2.855 | = | - | - | 35-44 | - | _ | France | Orleans | _ | | | 100 | | | | | | | 1 | Buch | Contract of the Contract of th | |
| 3 | 4x 6x 8. | Hewn | Ξ | 868 | 4.42 Gal | 1.326601 | 1909 | San Loon Tex | 6.H+S.A | Gravel | Ξ | 80 | Seren | Clark Tension | = | 1914 | 4.8 | 0 | = | Good | 13-16 | Stow marked signs of decay | 7 |
| 4 | d. | do | = | 24 | - | 12 | do | Talla Lanes | 2 | 6 | - | = | Cut | Contrageo | = | 2 | 7 | 0 | = | do | = | | 1 |
| 28706466 | 621028 | - | - | 285 | = | 12 | 1906 | solix La | 2 | 4 | Ξ | = | 4 | GAW. | Ξ | 2 | 8 | 2 | 11111 | Some Not | = | 72 % decayed | |
| 8 | 0.10.0 | = | = | 1963 | = | 1.3 | 1911 | Olivis Men | 2 | Gravel | - | 90 | Seww | clark der Craper Oak Tenier | = | 2 | 8 | 0 | = | Good | = | | 3. |
| 10 | 4. | = | _ | 295 | - | 2 | 60 | 4 | 2 | 2 | = | 90. | 44 | Clark Textion | = | de | 3 | 0 | = | -4 | = | | 7. |
| " | | | | 101 | - | 1 | do | do | 4 | 4 | - | 90 | 4 | do | - | 2 | 3 | 0 | = - | do | _ | | |
| 1 | CREOSOT | E-6103 | BANI | 29 | | | | | | | | | | | 4 | | | | | | | | - |
| | CREOSOT | F-10 | VRY | 47 | _ | - | 1905 | Tomporto Branch | No Cent | - | - | - | - | - | Banch Line | 1914 | 9.5 | 0 | - | - | - | | 2. |
| / | 7 9 4 8 6 | _ | Seasoned | 00 | 3.56al | _ | 1915 | Atternet, N.J. | 01-46 | -/ | | | Seren | Shorter | | | | | | | | | 100 |
| 2 | do | - | do | 37 | do | _ | de | Dover, N.J | OLTH. | Stone | 6000 | 101 | Seren | 4 | = | 1915 | = | _ | = | = | = | | 44 |
| - 1 | CREOSOT | E.LON | PRESSURE | | | | | | | | | | 1 | | 11-4 | | | | | | | | |
| 1 | 7:9:8' | - | Well Seasoned | 183 | _ | 7.0 | 1910 | Alobama | TOITER | _ | _ | _ | _ | addie | | 4 | 4 | 17 | - | 1 | | | |
| | CREOSOT | E - AUE | PING | | | | | | | | | | | 2007.0 | | - | 7 | " | - | - | | | 2/ |
| / | _ | _ | - | - | _ | 5.0 | 1905 | _ | CHISTP | _ | _ | _ | - | _ | | 1908 | 5 | _ | _ | _ | | * | |
| 2 | - | _ | _ | 146 | _ | - | 1. | Tanpero Branch | Nos Cent | - | _ | _ | _ | _ | Breech Line | 1914 | 9.5 | 0 | = | _ | | Too recent | 1.0 |
| 3 | 72828' | Henry | _ | 85 | - | - | 1907 | Solla, To. | GHISA | Grovel | - | - | cut | 65.37 | | 4 | 7.6 | 0 | | Good | _ | | 3 |
| 4 | do | 4. | _ | 10 | _ | - | 4 | 4. | 1. | 4 | _ | - | 6 | omtinions Joints | _ | 4 | 7.5 | 0 | _ | 4 | _ | | 1 |
| 5 | 1. | 1 | - | 23 | - | - | 4 | Latery atta + Scott | 1. | 4 | - | - | 1. | Q+W | - | 4 | 7.5 | 0 | - | stratt Decay | _ | | |
| 9. | do | 4 | - | 77 | - | | 4 | 10 | de | 4 | - | - | 4. | 10 | - | 4 | 7.5 | 0 | - | 10 | - | - | |
| ect 26 | | - | | 2,176,417 | - | 4.545.0 | 1906 | | A.T. 75.F. | | _ | - | - | _ | - | 1908 | 2 | - | _ | - | - 1 | No results | 1. |
| 100 | | 0 | e 40 # per 54. | | | 120 | , | 400 | | | 441 | | | | | | | | | | | | |

| | 2 | E-RUE | 4 | 5 | 6 | 7 | 7 | 9 | 10 | // | 12 | 73 | 14] | 15 | 160 | 17. | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----------|--------|-------|--|--|---|--|---|--|-----|--|---------------|--|--------------------------------|--|---|---|------|--|-----------------------|-------------|--------------|--|--|
| 09.82 | REOSOT | | do d | 173 304 44 190 275 366 27 384 572 54621 9 436 24238 | | 4.56 4.56 4.56 4.56 3.93 4.56 3.93 3.93 5.00 5.00 | do Sutto 1904 Ponc do Bliss do Perr do 1905 Garn | reline Mo on Ms. a City Ohla s Ohla y Ohla do nett Ms. insencet | -22 | Gravel Jo Slag. Rock de de de de de de de de de d | THE PROPERTY. | 85 85 85 90 90 90 90 90 90 90 | Cot do do do do do do Screw do | 619 618 618 7219 7519 60 60 60 60 72 x 9 | 10 172 186 10 348 885 6 477 149 2 650 296 40 40 40 5 191 504 | 1915 do | 1000 | 5.8 34.9 9.1 4.2 2.2 0 0 7.3 9.8 | West Decay was vivoar | 11111111111 | 111111111111 | 13 90 comment on account of author (suith), at (c. | 45.00 do |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 2 | | | | | | | | | | | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 122 | 23 | 1 4 |
|---------|-----------------|-----------|---|------------|---------|----------|-------|------------------|-------------|-----------------|------|-----|---------|------------|-------|--------|-------|------|----------|------|-------|--|-----|
| | CRESOL | CALCIUI | - LOW PRE | SSURE | - | | | | | | | | | | | | | | | | 1 | | 1 |
| See | ELM In | dex No. 6 | ./- | | | | | | | | | | 1 | | | 1. 2 | | | | | | | |
| 010.1 | 7:9:8' | 1- | Well Seasoned | 104 | _ | 1.15 Dry | 1910 | Aloboma | T.C.Z+RR | _ | _ | _ | - | Goldie | | 1914 | 4 | 3 | | | _ | 47% Good - 45% partly decayed 5% decay | 21 |
| 777 | DIAMON | NO GLUE | PRESERVA | | | | | | 400000 | | | | | 00,0,2 | | | - | " | | | - | The state of the s | - |
| 11.1 | | _ | 10.20 | 19 | | - | 1902 | Besument, Tex. | 6C.+S.F. | sond | Air | 60 | cut | None | Heavy | 1908 | 6 | 100 | _ | | 1000 | Started to fail 1905 by Forest Service | 1 |
| 10.00 | MERCUR | IC CHLO | RIDE - (KYA | | | | - | | | DDA'A | 1 | 1 | | ****** | , | 1,,,,, | | 100 | _ | - | 2.00 | Avg. Life estimated by Forest Served | 11. |
| 121 | | | Green | T'_ | | 1 - | 1856 | | B.+P.RR | _ | 1.00 | 1 | | 1000 | 200 | 1 | 1.3 | | | 1.5 | | | |
| 1 | SALTS - | BARSCH | ALL HASSE | MANN | | | ,,,,, | 7 | D. 17.11/1. | | _ | - | _ | 100 | _ | - | - | | _ | - | - | Includes Spruce Hearts derayed | 2. |
| 13.1 | 0.12.0 | | 1 1002 | 37999 | 1 | | 1902 | 100 | 1000 | and the same of | | | | | | 1000 | | | | | | | 1 |
| 13.2 | | | | 74 | | - | | | 6879 | - | - | - | - | - | | 1908 | 6 | | - | _ | - | Dead failure | 1 |
| 70.2 | UNTRE | FATER | _ | 17 | _ | - | 1 | Besument, Tex. | GC+S.F | Sand | Poor | 60 | 201 | None | Heavy | 1912 | 10 | 97.5 | - | - | 40 | started to fail and 89% rompred 1905 Any Life astronomy by Forest Service | 1 |
| 914.1 | 7.9.9 | T | | | | | | 1.6. M. | | | | | | 3001 | | | 532 | | | | 1 | | |
| 0 14.2 | | - | Air Seasoned | 25 | - | - | 1907 | Scott La | 6.H. 15.A | Grave! | - | - | Cot | Servis | - | 1914 | 2.67 | 100 | - | - | 2.67 | | 2 |
| A 577/A | do | - | - | 75 | _ | - | 1 - | 4 | 4 | 2 | - | 1- | 1 | Ho/houpter | - | 1. | 2.67 | 100 | - | - | 2.67 | | |
| 14.3 | _ | - | - | _ | - | - | - | France | | - | - | - | - | - | - | 1895 | - | - | - | - | 7-8 | | 10 |
| 14.4 | - | - | _ | 26720 | - | - | 1858 | Germany | Western RR | _ | - | - | - | - | - | 1880 | 7 | 100 | - | - | 5.1 | | 14 |
| 14.5 | - | - | - | 233640 | - | - | 10 | 10 | South RR | | - | - | - | - | - | 1. | 9 | 100 | - | - | 5.2 | | 1 |
| | | | 1.1 and 1.2 | | | | | | A | | | 1 | | - | | 1 9 | | - | 1777 | 1 | | | |
| See | Cypress 1 | nder Nos | 4.36 and | 4.37 | | | | | | 1 | | | | | | | | | | | | | |
| 10.0 | VARIOU | 5 PROCE | 55E5 | | | | | | | . 3 | | | | | 1 | | 100 | | | | | | |
| 15.1 | - | - | - | 851541 | - | - | - | Germany | 15 milros | - | - | - | - | _ | _ | 1880 | _ | _ | _ | _ | 14 | | 14 |
| | VULCAN | IZED | | | | 1 | 1.00 | | | | | | 1 | | | | 27 | | | | | | |
| 0/6/ | _ | Sawed | seasoned bree. before y other treat years | 25 | - | - | 1897 | Norfolk Div. | N 5. | _ | _ | _ | _ | servis | _ | 1914 | _ | 100 | _ | _ | 3.5 | Started to fail 1899 Allout 1908 | 1 |
| 16.2 | _ | Hewn | Treatment | 25 | _ | - | 4 | 4. | 4 | _ | | _ | _ | None | | 4 | | 100 | | | 2.3 | 1. 1. 1900 | 1 |
| 16.5 | | 1 | 1. | 100 | _ | - | 4 | 4 | 4 | 10 | _ | _ | | | 344 | 4 | | 100 | | | 21 | 4 1900 | |
| 16.4 | _ | Sawed | 1. | 100 | _ | _ | 4 | 4 | 4 | | | | | 1000 | | 1 2 | | 100 | | | 43 | 4 4 1908 | |
| 76.5 | _ | 4 | 1. 4 | 46 | | | 1 | 6 | . 2 | | | 100 | | | 200 | 4 | | 100 | | | 100 | | |
| , | 7335000 | UIDEIDE | - BURNE | | _ | _ | " | - | 40 | | _ | _ | - | _ | - | " | - / | 100 | _ | - | 3.0 | 1. 1. 1900 | |
| C 1 | | | to 11.4 Incl. | Ť | | 1 | | | | | | | | | | | , | | | | | | 1 |
| 17.1 | I muex | 10.5 /1.7 | 1 | | | 1 | | | | | | | | | | 1 | 1 | | Saula II | | | | |
| | | _ | - | 11827 | - | | 1899 | Colifornia | A.T. +S.F | - | _ | - | - | - | - | 1110 | 1 | 18 | Various | - | - | - | 1 |
| 17.2 | | - | | 15096561 | _ | 25 to 50 | 1885 | and the way | 40 | - | 7 | - | - | - | - | 1908 | | - | - | - | 10.55 | Life in dry regions 10.8 to 14.9415 | ' |
| 17.3 | 6×8×8 | Hewn | Air Scasoned | 446 | - | 0.5 | 1906 | Black Hills, Wis | WHEN SHIPS | Grave! | Good | 65 | cut | None | Light | 1915 | " | 0 | - | Good | - | | 1 |
| 17.4 | - | - | | 45 | - | - | 1905 | Tampico Branch | Mex Cent. | | - | - | - | - | - | 1914 | 9.5 | 0 | - | - | - | - | 1 |
| 17.5 | - | Hewn | Seasoned 6 mo | 25 | - | - | 1897 | Norfolk DIV | N. 5 | _ | - | - | - | - | - | 16 | 17 | 48 | - | - | 15 | Began to fail 1907 | 1 |
| 17.6 | _ | Sawed | do | 100 | - | - | do | 1. | do | - | - | - | - | - | - | 4 | 17 | 62 | - | - | 15 | 6 1904 | |
| 17.7 | - | Hewn | do | 100 | - | - | 10 | 1. | 4. | - | - | - | - | - | - | 4 | 17 | 66 | - | - | 16 | do 1907 | 1 |
| 17.8 | - | - | - | 242000 | - | - | 1886 | Wyoming | U.P. | - | - | - | | - | _ | 1897-8 | 12-15 | 100 | - | - | 9 | 1. 1903 | 1. |
| 17.9 | 8 12 8 | - | _ | 2562 | - | .75 | 1907 | Hobson | 6.N | Grave/ | Foir | 85 | 16 . 5t | Glander or | - | 1914 | 7 | 0.9 | Decay | - | - | Includes Tamprack Fir + Spruce | 1 4 |
| 17.10 | - | Triangula | - | 2601 | - | 0.5 | 1902 | Conrad | 1. | 4 | 1. | 68 | 4 | None | _ | de | 12 | 65.5 | _ | _ | 12 | 635 decayed - 1149 split + braken Includes Tamarack Fir + Spruce | 1 |
| 17.11 | - | - | - | 10 500 000 | - | 0.25 | 1888 | _ | T.+ N.O. | _ | _ | - | _ | _ | _ | 1908 | 10 | _ | _ | | 10-11 | THE COURT PARTIES PROFES | |
| 17.12 | _ | - | _ | 300 | - | - | 1901 | Cometicut | MXNH+H | _ | _ | - | - | _ | _ | 1914 | 1.8 | 0 | _ | _ | - | | 1. |
| 17.13 | 64 105 8-104 | - | _ | 4836 668 | 34 Sal. | - | _ | Germany | German RE | | _ | - | _ | | | 1896 | _ | _ | = | | 12 | | |
| 17.14 | 10 | - | - | _ | _ | _ | _ | 4 | German ER. | = - | | | | | | - | | | | | | | 1 |
| deef He | ZINC I | HLORID. | | NE. | 177 | | | | German elv. | | | - | | | - | - | | | | | 12 | | 12 |
| 18.1 | 64 104 18-103 | M | JIEEFII | 3899 | | | 1000 | | Altonogo + | | | | 10 | _ 1 | | | | | | | | | |
| | 104 -104 10 104 | | 19 | 3077 | - | | 1852 | Germany | Ntogna + | | _ | - | - | - | _ | 1867 | 15 | 100 | - | - | 6.6 | | 23 |

O Preliminary Vacuum 12 Inch for 1.25 Hours - Boil Tamp 124° for 1.25 Hours - How Pressure 16 Poer Sq. In. of 120°F for 10.1 Hours Orio 11 Hours O Average life estimated by Forest Service

O Mostly native Pine and Spruce - also some Organ Fir, Elm, Ash, Maple + Oak - Hearly all Pine and Spruce removed in 1845 and 1896

| 4 | 2 | 3 | 4 | .5. | 6 | 1 | 8 | 9 | 10 . | 11 | 12 | 13 | 14. | | 11 | 17 | 18 | 14 | 20 | 21 | 22 | 23 | .2 |
|-------|---|------|-------------|------|-----|-----|------|------------|------|------|----|----|-----|------|--------------------------|----|----|------|----|----|----|-------------------------------|-----|
| .15 | - | | His assemed | | - | .58 | | Newton hs. | | Rock | | 85 | | They | 15 037 735 | | 10 | 32.7 | - | - | - | - Type Kennisa to - Ap perper | |
| 17 18 | | Suan | de | 6357 | _ | .58 | 1904 | de de | 10 | de | | 85 | 10 | | 15 037 755 15 037 755 | | " | 35.5 | _ | | _ | | 450 |
| 18 | | de | 4 | 90 | - | .52 | 1905 | 40 | do | do | = | 85 | do | | 15 034 755 | | | 0 | - | - | - | - | 434 |
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| | | | | | | | | | | | | | | | 7 | | | | | | | | |

1 Store Chloride at 100 pressure for 2 hrs at 200 F. Initial vacoum 24 inch 45 min. Steam 20 for 3 hr. 50 min. 3 Zinc Chloride at 100 pressure for 2 hrs at 200 F. Initial vacoum 24 inch. 45 min. Steam 20 for 4 hrs

| | / | 2 | 3 | 4 | 3 | 6 | / | 0 | 7 | 10 | " | 12. | 10 | 1.1 | 7.0 | - | | 2.7 | | | - | - | |
|---|-------|--|---------|---------------------|--------|-----------|---------|----------|------------------|--------------------|-------------|---------|-------|-------|----------|---|------|------|------|----------------|------|-------|--------------------------------|
| | | ZINC CR | FOSOTE | | | 1 | | | | | | | | | | | | | 75.0 | | 7 | 100 | |
| | 19.1 | | Hewn | _ | 200 | - | - | 1894 | Ft. Honcock | 6.H. TS.A. | Gravel | - | - | cut | - | - | 1914 | 20 | 64 | Dry Rot | - | 18.63 | Any life estimated by Forest S |
| | 0192 | _ | de | _ | 410 | _ | 6 | 1895 | Nothing Cutoff | 1. | Rock | - | - | - | Yes | - | do | 19 | 100 | - | - | 14.0 | |
| | 019.3 | _ | 1. | | 189 | - | 1. | 1. | 70 105 | de | do | - | - | - | Hone | - | 4 | 19 | 100 | - | _ | 14.0 | |
| | 0194 | - | _ | _ | 1095 | - | 1. | 1. | 10 | 1. | Earth | - | - | - | 1. | - | do | 19 | 88,5 | - | - | 14.0 | do |
| | 0195 | 7.9.9' | Hewn | _ | 433 | 101 Chlor | 4.49000 | 1907 | Withgrow + | 10 | Gravel | - | - | Cut | 23/37 | - | 1. | 7 | - | - | Good | - | 6% show decay |
| | 019.6 | 10 | do | _ | 7/ | do | 4.49CHO | 1906 | | 4 | 1. | - | - | 4 | orn | - | de | 5 | - | - | - | - | - |
| | 019.7 | 1. | do | _ | 476 | do | de | do | 1. | 16 | 1. | - | - | 1. | 10 | - | do | 5 | 1.1 | Decay | - | - | |
| | 19.8 | 64 104 8 00 | | Scasened 8-12 mo | _ | _ | - | - | Germany | General | - | - | - | - | - | - | - | - | - | - | - | 12-18 | _ |
| | 199 | 5.1.10.2. 8.53 | _ | 0-12/110 | 161213 | 66 | _ | _ | France | State Ry | _ | - | - | - | - | - | - | - | - | Decay | - | 10-15 | |
| | | | EOSOTE | E - GIUSSAI | */ | 1 | | | Market I | | | | | 1 | 77.0 | | | 100 | | | | | |
| | 20.1 | | _ | _ | 18 | - | - | 1905 | Tempile Dix | Mex Cent. | - | - | - | - | - | - | 1914 | 9.5 | 0 | - | - | - | _ |
| | | | | | | - | - | - | | - F | INE -BA | LTIC- | - | | | | | | | | | 10.3 | |
| | | UNTREA | TEO | | | | | | | | 1 | | | | | | | | | | | | |
| | 21.1 | _ | _ | _ | _ | - | - | - | Denmark | Ebeltoff Tustop | - | - | - | - | - | - | - | 9 | 19 | - | - | - | - |
| | | | | | | - | - | - | | / | PINE-BL | ACKH | 11213 | 7- | - | | - | | _ | | | | |
| | | ZINC CI | HORID | E | | | | | | | | | 1200 | | | | 100 | | | 1 | DUM | | |
| | 22.1 | | _ |] _ | 6354 | - | 35-40 | 1900-1 | Sidney, Neb | 6.879 | Acty Gravel | Kry Dry | 75 | - | Oncurres | - | 1914 | 14 | 6 | Rot | Good | - | - |
| | | | | | | - | - | - | | - | PINE-BO | 11/1- | - | | | | | | | | | | |
| | | W000 T | AR CREC | OSOTE | | | | | | | | | | | | | 100 | | 3 | and the second | | 1 | |
| | 23.1 | _ | - | - | 18 | - | - | 1902 | Philo + Cheste | | | - | - | - | - | - | 1914 | - | 100 | Decay | - | 5 | |
| | | - | | | - | - | + | - | | - | PINE-COL | ORADO | 1- | | | | | | | | | | |
| | | ZINC TA | NNIN - | WELL HOU. | SE | | | 1 | | | | | 1 | 1. 7 | | | | 1000 | | | | | |
| 2 | 24.1 | _ | - | - | 178 | - | - | 1885 | - | AT+S.F | - | - | - | - | - | - | 1901 | 15.1 | 38 | Creay + Wire | 1- | - | |
| 4 | 24.2 | _ | - | - | 145 | - | - | 1 | _ | 1 | - | - | - | - | - | _ | 1 | 15.1 | 92 | 1 | - | - | |
| | 243 | _ | - | - | 156 | - | - | 1 % | - | 1 | _ | - | - | - | - | - | do | 15.1 | 38 | 4. | - | - | |
| | 24.4 | - | - | - | 305 | - | - | 10 | - | 1 | - | - | - | - | - | - | do | 15.4 | 97 | do | - | - | |
| | 24.5 | - | - | - | 50 | - | - | 1882 | La. Jonito, Cale | de | - 21 | 1 | - | - | - | - | 1897 | 15.0 | 100 | - | - | 11.8 | |
| | _ | | | | - | + | - | | | +-/ | PINE - DA | N/210 | - | | | | | | | | | | |
| | | UNTREA | ATED | | | | | The same | | | | | | | | | 100 | | 19 | | 1 | | |
| | 25.1 | 4.5 29" | - | - | 2500 | - | - | 1898 | Denmork | svoerk | - | - | - | - | - | - | 1909 | 1000 | 67 | _ | - | _ | |
| | 25.2 | 1. | - | _ | 20000 | - | - | - | do | Veilegive | BINE III | 100 | - | - | - | _ | - | 16 | 07 | - | 1 | _ | |
| | - | | 1 | | | | | + | - | - | PINE, HE | 1 - | | | | | | | | | | | |
| | | | | AL CELL | 1 | | 1000 | 1000 | | | -/ | | 1 | 1 4 | None | | 1912 | 2 | 0 | | 1 | | |
| | 26.1 | The state of the s | 1000 | - | 50 | - | 17.4 | 1910 | & rounghang A | a 4-C. | 569 | - | 75 | Cut | mone | - | 1712 | 1 | 10 | - | - | - | |
| | | UNTREA | TEO | | 1 | | 1 | | | | - / | | | | | | 1914 | | 100 | - | | | Ave life estimated |
| | 27.1 | _ | _ | - | 158 | - | - | 1895 | Texas. | 6.H.+S.A | | - | - | - | Yes 1 | - | 1000 | - | 100 | _ | | 9 | by Farrer Service |
| | 27.2 | _ | - | - | 7/7 | - | - | 1 4 | 4 | 1. 4 | Farth | - | - | - | 100 | - | 1 | 1 | 100 | | | 9 | 4 |
| | 27.3 | | - | - | 769 | - | - | 1 4 | | de | de | - | - | - | No | | 1 | | 100 | _ | | 5.5 | - All out in 191 |
| | 27.4 | 7"29"28" | Sawn | - | 4 | - | - | 1 | Sen lean Tes | | - | - | 1- | Seron | 1 - | _ | 1 % | - | 99.4 | | | 3.9 | |
| | 27.5. | do | 1. | - | 184 | - | - | 1 20 | 4 | do | _ | - | 1- | 1 | Alendan | _ | 100 | - | 100 | | | 140 | 4 4 |
| | | | | | | | | | | | | | | | | | | | | | | | |

do do TABLE do do 24 -PINE

Cinder

184

434

1000

35

Ξ do do

10 1. 9.38 1. Soundard 1000 17.4 1810 Similar 16 970 Slag Good 15 10 Records show an injection of 64 per Cu Fl of crossets but fail to give the amount of 18 Treatment similar to Allardyce but not always followed 1.3 to Seletian of time Chloride.

1907

8

2

do do

77.9285

276 277

65

1.

CREOSOTE-FULL CELL

3

24

7.00 7.00 de de 500 7.00

10.10 2.20 3.00

3.00

20.10

29.20

. 2.00

10

3.10

7.00

do do do do

3.10

Begante fail 1907

10

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 12 | 23 | 24 |
|--------|-------------|---------|------------------------|---------|------|-------|------|------------------|---------------|------------------------------|------|-------|-----|--------------|-----------|------|----|------|-----------|------|------|--|-------|
| 1.3 | _ | | | 88 | _ | 2219 | 1909 | Imes East | C.B.+ Q. | Conders Grand | _ | 75:85 | - | Partly | _ | 1914 | 5 | 0 | _ | - | - | | 5.00 |
| 1.4 | | | | 50 | | 4 | 1910 | 10 | 1. | Gravel | _ | 90 | _ | All | _ | 4 | 4 | 0 | _ | _ | _ | 4% decayed | 40 |
| 1.5 | | | | 40 | | 4 | 1909 | Lines West | 1. | Conders Gravel | _ | 85-90 | _ | Yes | _ | " | 5 | 0 | - | _ | _ | | 10 |
| 1.6 | - Cincles | | | 31 | | 10 | 1910 | 10 | do | Lyons Stone | | 90 | _ | 10 | _ | do | 4 | 0 | - | - | - | | do |
| 1×7 | CREOSO7 | E | | 2745 | - | 50-40 | 4 | Weester Ohio | A. System | _ | _ | _ | _ | _ | _ | 1912 | 2 | - | - | - | - | Various track fastenings | 20.00 |
| 128 | 7 70 100 | | Green | 299 | | 80 | 4 | Texarcono Tex | St. L. + S. W | _ | _ | _ | - | - | - | 1914 | 4 | - | - | - | - | Seasoned a mo ofter treatment | 50.10 |
| 1X9 | 2 | _ | Seasoned 3 Mo. | 300 | _ | 0.0 | 10 | do | 10 | | _ | - | - | - | - | 6 | 4 | - | - | - | - | 4 4 10 | do |
| | CREOSOT | | Control of the Control | | | | 190 | | | | | | | | | | | | | | | The second second | |
| 02.1 | _ | _ | Seasoned | 274 | _ | 5.0 | 1909 | Fullen ky | I.C | Grave | _ | 90 | - | \$ Tieplaled | - | 1913 | 4 | 0 | - | Good | - | Continuous angle bors. | 12.00 |
| 02.2 | 2 | _ | 1. | 274 | - | 1. | 1. | Lulo Miss | 10 | New Gravel | - | 75 | - | Sellers | - | 4 | 4 | - | - | - | - | 40" Tu der bars-damaged by derailment | do |
| 023 | _ | _ | 4 | 274 | _ | 10 | 1910 | Greenville Miss. | 1. | Oirt | - | 75 | - | t Treplated | - | 4 | 3 | 0 | - | Good | - | Weber joints 0.8% decayed | de |
| 024 | - | _ | 10 | 274 | _ | 10 | 1909 | Kankokee, Ill. | 6. | Old rock | - | 90 | - | 4 | - | de | 4 | 0 | - | 4. | - | Continuous angle bars | do |
| 025 | _ | _ | do | 274 | _ | 4 | 1910 | Bloomington Ill. | 4 | old Gravel | - | 75 | - | + neplated | - | 4 | 3 | - | - | do | - | Weber angle bars | 10 |
| 2.6 | - | - | | 3200 | - | 6 | 1907 | Counth Miss | 40 | Braval | - | 85 | - | None | Not Heavy | 1914 | 7 | / | - | de | - | Slightly roil out | 12.10 |
| 2.7 | | _ | _ | 2880 | _ | 6.0 | 1. | 4. | 4. | 10 | - | 85 | - | do | 4 | 10 | 7 | / | - | do | - | 4 | do |
| | 119010 . J. | M. LON | 55 | | | | | | | | | | | | | la. | | | | | | and the state of t | |
| 3.1 | - | _ | Seasoned | 274 | _ | 0.826 | 1910 | Greenville, Miss | de | Dirt | - | 75 | - | \$ Treplated | - | 1913 | 3 | - | _ | Good | - | where durt covers top of tie | 12.00 |
| | OIL, BAK | ERSFI | ELO | | | | | | 1.00 | | | 2.0 | | | | | | 100 | | | | | 11.00 |
| 41 | - | _ | - | 4 | - | - | 1902 | Beaument Tex | 6.C.+ S.F. | Sond | Poor | 60 | Cut | None | Heovy | 1912 | 10 | 0 | - | Good | _ | | 11.00 |
| | OIL, BEA | UMONT | | 0.19 | | | | | V | | | 1 | | | | | | | | | | 1//// 27 /24 | -,- |
| 5.1 | - | - | _ | 42 | 4.24 | - | do | 1. | 4 | 4. | 4 | 60 | 4 | de | 1. | 1911 | 9 | 100 | _ | - | 3.77 | Started to fail and 95 teremoved 1905 | 1. |
| | OIL, BEA | UMONT A | NO ZINC CI | HLORIDE | | | | | | | | 1 | | 1 3 | 1.5 | | | | | | | | de |
| 6.1 | - | - | - | 81 | 3.0 | 0.25 | do | 1. | 4 | 4 | 4 | 60 | do | do | 4. | 1911 | 9 | 100 | - | - | | 1 | - |
| 3 | SALTS, B | ARSCHA | LL HASSEL | | | | | | | | * | 20 | | | | | | | | | | elalist citione | do |
| 7.1 | - | - | - | 99 | - | - | do | 10 | de | 10 | 10 | 60 | do | 10 | 4 | 1906 | 4 | 100 | - | - | 4.3 | Started to fail 1905 | - |
| | SPIRITT | INE | | 1 | | | | | | 1. 10. | | | , | | , | 1911 | , | | | | 5.6 | 80% removed 1905-18% removed 1906 | de |
| 8.1 | - | - | seasoned. | 100 | - | 3.3 | de | 4 | do | 10 | do | 60 | 10 | 10 | de | /4// | 4 | 100 | - | | 3.6 | CON TEMENTAL TYPE TEMPTE TYPE | |
| | UNTRE | ATEO | | 11.5 | | | 1000 | | 40.5 | Complete Grand | | 10.00 | | - 11 | | 1914 | 5 | 73 | Rot | 1 | | | 5.00 |
| 9.1 | - | _ | _ | 110 | _ | _ | 1909 | Lines East | C.B.+9 | Conders Gravel Burnt Clay | - | 15985 | | Portly | | | 6 | 95 | de | | | | 1 |
| 9.2 | - | - | - | 24 | - | _ | 1908 | 4 | 4 | Grave! | - | 0.00 | | All | | 4 | 4 | 44 | 2 | | | | 4 |
| 23 | - | _ | _ | 48 | = | - | 1910 | | 10 | Coders Gravel | | 85.90 | | Yas | | 4 | 5 | 82.6 | 4 | | | | do |
| 9.4 | - | = | - | 60 | _ | - | 1909 | Lines West | 4 | Conders Gravel Burnt Clay | | 1 | | 10 | | do | 4 | 25 | 1. | (2) | | 1 | 10 |
| 9.5 | = | - | _ | 29 | - | - | 1910 | 10 | do | Lyons Stone | Poor | 80 | cit | None | Heavy | 1904 | 2 | 100 | | | | Started to fail 1904 | 11.00 |
| 9.6 | - T- | | _ | 100 | - | - | 1902 | Beaument, Tex. | BOTSE | Sand | 1001 | 00 | 201 | mone | neavy | 7707 | - | 100 | | | | 0.2 | |
| | ZINC CH | LONIDE | | | _ | 100 | 1000 | Fulton ky | 1.0. | Gravel | | 90 | | 1 Tieplaled | _ | 1913 | 4 | 0 | _ | 6000 | _ | Continuous angle bars | 12.00 |
| @ 10.1 | - | - | Scasonia | 1274 | _ | 0.5 | 101 | Lolo Miss | 1.2. | | _ | 75 | | 1 Timbeted | | 4 | 4 | | | _ | | Damaged by dersilment 45 Todor bars | de |
| 0102 | _ | - | 4 | 2,4 | | 1 | 1910 | | 1 | New Gravel Dirt | = | 75 | _ | Toplded | | 4 | 5 | 0.73 | Broken | Good | _ | Weber Joints | do |
| 010.3 | - | _ | do | 274 | | 4 | 1909 | | 1 | Old Rock | _ | 90 | | do | | 1 | 4 | _ | _ | 1. | _ | Continuers angle bors | 10 |
| 0 10.4 | _ | _ | 4 | 274 | | 10 | 1000 | Blemington, Ill. | 1 | Old Gravel | _ | 75 | | & Treplate | _ | do | 3 | 0 | _ | 4 | _ | Weber Joints | 10 |
| 0 10.5 | | - | BURNETT | 4/7 | _ | | 1770 | , 20 m | " | DIS EVALUE | | 1 | | Dellers | - | | | | | | | | |
| "" | ZINC CHE | I | DUNNE / / | 10 | 1 | 0.5 | 1909 | Lines East | 0.8.0 | Cindens Grand | _ | 75.85 | - | Partly | _ | 1914 | 5 | 2.8 | _ | - | - | | 5.00 |
| 11.1 | | | | 50 | | do | 1910 | do | 2.0.14 | Burnt Clay Bravel | NEC. | 90 | | All | _ | 1 | 4 | 0 | _ | - | _ | 10% decayed | 5.00 |
| 11.3 | | | | 43 | | 1 | 1904 | Lines West | 1 | Onders Grovel | | 85.90 | | Yes | _ | 1 | 5 | 4 | State Rot | - | - | 2% 5plit | 1 |
| 11.4 | | | | 30 | | 1 | 1910 | 4 | 1 | Lyons Stone | _ | 90 | _ | do | _ | do | 4 | 0 | _ | - | - | | 1 |
| 11.5 | | | | 100 | _ | 0.35 | | Besumont, Tex | 6.0.T.S.F | Sond | Poor | 60 | Cut | None | Heavy | 1911 | 9 | 100 | _ | - | - | | 11.00 |
| | | | iminary Pres | | | | | | | | | | | | | 1000 | | | | | _ | | |

444

1913 6

=

Glendon None

65

99.4 100 99.6

3.9 4.07 4.7

| / | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 10 | 100 | 1 | 1 - | | - | _ | _ | _ | | |
|-------|-----------|----------|--------------------------------|------------|------------|------------|------------------|------------------|---|------------------------------|--------|-------|-------------|-----------|-------|--------|-------|------|--|------|--------|--|-----|
| | ZINC | REOSOT | E-ALLA | ROYCE | The second | | 1 | | 1 | - " | 1/4 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 12.1 | | _ | | 50 | 100 | 0.242.00 | | | 1 | 1 | | | 100 | | | | | | | | | | |
| 12.2 | _ | 2 | | 51 | - | 1.0 Creo | | Beaumont, Tex | G.C.+5. F | Sand | Poor | 60 | cut | None | Hoavy | 1911 | 9 | 100 | _ | - | 1_ | 2% out for test | |
| | ZING C | REACAT | | 01 | - | 0.5 Creo. | do | 10 | do | 10 | do | 60 | do | 10 | 10 | 6 | 9 | 100 | Rollest | | 1- | | |
| | ZINC C | 120301 | E-CARD | 1000 | - | 1 | | | | | 1 | 100 | | | | - | 1 | 100 | Mallest | - | - | do 1 Lost | |
| 13.1 | _ | - | | 160 | - | 25 Zine | 1908 | Lines East | C.B.+Q. | Gravel | _ | 90 | | on Curves | 20 | | - 5 | 1 | | | | | |
| 13.2 | - | - | _ | 426 | - | 4 | 1909 | do | de | Conders Bravel Bornt Clay | 4 | | | | _ | 1914 | 6 | 67 | Raileut | - | - | | |
| 13.3 | _ | - | _ | 472 | - | 1. | 1910 | 4 | 100 | | - | 75-85 | - | Portly | - | de | 5 | 0.2 | Split | 1- | - | | |
| 13.4 | _ | - | _ | 267 | - | 1 4 | 1909 | | 1 | Gravel | - | 90 | - | A11. | - | 1 | 4 | 0 | _ | - | - | Sto decayed I desplit | |
| 13.5 | _ | _ | | 121 | - | 100 | | Lines West | 1 | Bornt Clay | - | 85-90 | - | Yes | - | 10 | 5 | 0 | _ | - | _ | 2% burned | |
| | ZINC TA | NNIN - W | VELL HOUS | | | 4 | 1910 | do | 4 | 4ms Stone | - | 90 | - | do | _ | 10 | 4 | 8.3 | Pot-shaky | - | 1 | AN OUTHER | |
| 14.1 | | 1 | LELHOUS | Т | | | 1 | 9 | | | | | | 100 | | | | | in singly | | | | |
| | | - | - | 100 | - | 0.33 | 1902 | | 6.C.+S.F. | Sand | Pear | 60 | out 1 | None | Heavy | 1912 | 10 | 95 | | | | The state of the s | |
| | | | | | | | | TABLE | 25 / | PINE 10 | DGEF | DIF | | 2000 | | 1712 | 10 | 43 | - | - | - | started to fail 1911 | |
| | CREOSOT | E-FULL | CELL | | | | | | | | | | | | | | | | | | | | |
| 1.1 | _ | - | Well Seasoned | | - | 8.841 | 1905 | Elsberry, Mo. | 0.8.+9 | | | | | | | | | 7000 | | | | | |
| | CREOSOT | E-FULL C | CELL:-LOW | RY:- RU | EPING . | See REL | FIR | nder No. 2.1 | | 1 | - | _ | - | Sollers | - | 1914 | 8.5 | 0 | - | - | - | Tieplated 2 tyrs. ofter Leging | |
| 2.1 | _ | _ | | 58 | 1 _ | 1_ | | Shendon Myo. | , | | | | | 2.2 | | | 157 | | |) | | 7 - 3 - 3 - 3 | |
| | CREOSOT | E-RUEP | ING | 100 | | | 1 | JACTINGA 1140. | 4 | Ballentina Grave | - | 85 | - | do | - | 1912 | 5.5 | 0 | - | Good | - | | |
| 3.1 | | _ | Well Seasoned | 25 | | | | | | | | | | | | 1 | 100 | | | | | | |
| | UNTREA | | Jean Sea Service | 13 | - | 4.92 | 1405 | Elsberry, Mo. | 4. | - | - | - | - | 4 | _ | 1914 | 8.5 | 0 | _ | - 4 | 100 | * | |
| 4.1 | 6×6-10×8 | | unnealed | | | | | and the second | 1 | 0.00 | - | | | | | 11/1/1 | | | 1 | | - | Troplated 21 yrs. after Laying | |
| 4.2 | V0-10 X 8 | | Unpealed lyr | 15 | - | - | | Delmont Wash | W.V. +N. | _ | Good | - 1 | cut | _ | Light | 1914 | 4 | | | | | | |
| 7.2 | | | Well Seasoned | 10 | - | - | 1905 | Elsberry, Mo. | 20.00 | _ | _ | _ | | sellers | | 100 | | 0 | | Good | - | 15% partly docayed | |
| 1000 | ZINC CH | | - BOILE | | | | | | | | | | | Jeller's | - | do | 8.5 | 40 | Large / | - | - | Tieplated 21 yrs ofter Laying | |
| 5.1 | - | - | Segsoned 22 me after treatment | 61 | - | 35-40 | 1904 | Sheridan, Myo. | 4. | Ballankes C | | | | | | | | | 1000 | | | | |
| | ZINC CH | LORIDE | -BURNET | 7 | | | | | | Ballentine Gravel | Poor | 85 | - | do | HOVY | 20 | 9 | 100 | For led dechanically | - | 6.7 | 34% out in 1912 | |
| 6.1 | _ | _ | _ | 1996 | | | 1000 | 1 | 1 5 | | | 100 | | | | | | | - | | | | 1 |
| 6.2 | _ | _ | Well Seasoned | 65 | - | 700 | 1906 | do | do | - | _ | - | - | - | _ | 6 | 0 | | Burnt | Good | _ | | 1 |
| | ZINC CR | | -ALLARU | | - | .309 | 1105 | Elsberry, No. | 40 | - | - | - | - 1 | sollers | - 1 | 100 | 85 | 30 | Decay | _ | | Translated at | 1 |
| 7.1 | | | Well Seasoned | | 0 | 01811. | 100 | | | | 1 | | | | | | | | | | 1 | Tieplated 2: 412 ofter laying | |
| | | _ | red Seasoned | 77 | - | 0.383 2 mc | do | do | do | - | _ | | _ | 40 | _ | 4 | 8.5 | 2.6 | | | - | | 1 |
| | caraci | | 2 2 5 1 | | 1000 | | | | F | INE LONG | SLEAF | | _ | | | " | | ~.0 | | _ | - | do | |
| | CREOSO | = | . 0 | | | | | | 1 | | 1 | | | | | | | | | | | | + |
| 8.1 | - | - | - | 250 | - | _ | 1887 | North Corolina | A.C.L. | Sandy Loam | _ | | 20 | ber 1 | | | 23 | 40 | | - 0 | | | - |
| 8.2 | - | - | _ | _ | - | 15 | | | Electric | 7 | | | | _ | 2000 | 20350 | 200 | | Rail Cut | Bood | - | | |
| 8.3 | - | - 1 | mo offer treat | 300 | _ | 8 | SEPTIME STATE OF | Exercono Tex | | 4 | 100 | - | - | - | | 9503 | 2/ | 0 | - | - | - | room for M'Adoo Tunnel | 1 |
| 8.4 | 1=:1 | - 3 | my Seasoned | 300 | _ | 0 | | | 100000000000000000000000000000000000000 | | - | - | - | - | - | 1914 | 4 | 0 | - | - | _ | - Nose Tunnel | 1 |
| 8.5 | _ | - 1 | Her trastment | _ | | 12 | 195.9 | de e | 00 | | - | - | - | - | - | 10 | 4 | 0 | - | - | - | | 1 |
| 8.6 | _ | _ | | \equiv 1 | | 1000 | 10000 | Seffalo Divition | | Bridge | - | - | - | - | - | 4 0 | 5-9 | - 1 | _ | _ | Neiger | Shattered - Killed by Steaming process | 1 |
| | OIL, BEAL | 25776 | 3 5 1 7 | | _ | 12 | 1906 | do | do | 1. | - | - | - | Yes | _ | 10 | 8 | 00 0 | rush under | | 0 | steam till cather then he | 1 |
| 9.1 | | | - | | | 100 | 1 | | - | | | | | | X | | | 1 | repostre | | | Steam tills rather than helps where | |
| *** | au aua | | | 100 | 5.67 | 3 | 1902 0 | Seaument, Tex. | S.C.+5.F | Sand | Poor | 60 1 | 2+ | None / | Heavy | 1911 | 9 1 | 00 | | 1 | | | |
| | OIL AND Z | | UNIDE | 100 | | | | | | | | | | 1 | 12 | "" | 1 | 00 | - | 7 | 5 | 70% removed 1906' | 1 |
| 0.1 | - | - | - | 100 | 3.0 | - | 1. | 1. | 4 | 1. | 10 | 60 | 4 | , | , | | | | _ | | | and the second | |
| | 5ALT5 -B | ARSCHA | LL HASSE. | LMANN. | 1 | | | 100 | | | | - | ~ | 4 | 4 | 1912 | 10 | 8 | - | - | - | storted to fail 1911 | |
| 1.1 | - | - | - | 100 | _ | _ | 4 | 4 | 4 | 1 | , | | | | | 13 | | | | | | | 1 |
| | SPIRITI | INE | | | | 1 | | | " | 4. | 1. | 60 | 1. | 1. | 10 | 1. | 10 1 | 95 | - | _ | 6 | 1. 1908 | |
| 2.1 | _ | | _ | 100 | _ | ** | , | , | 2 | - | | | | | | | | | | | | | |
| | UNTREAT | 200 | | | - | 3.3 | de | 4 | 10 | do | 1. | 60 | 4 | 4 | 4 | 4 | 10 0 | 95 | | 2 | | N. L. I + C Lines | 1 |
| 3.1 | 1 | | | | 1 | | | | | | | | | | | 1 | | | | _ | 6.7 | Started to fail 1906 outremoved 1908 | 9 |
| | | - | _ | 95 | - | - 1 | 1902 | do | 10 | 10 | 1. | 60 | do | do | 10 1 | 911 | 9 1 | | | | | 242 | |
| 3.2 | ** ** ** | - | - | 2100 | - | - 4 | 919.00 A | Pio, Wisc. C | MASHR | Grave/ | Fig. 1 | 85 . | 27 | 1. | | 23.10 | | 10 | recoved | - | - | 91% removed 1905 | |
| 3.3 . | 729"48" | - | - | 99 | _ | - / | | | CIARCO | | 2.5 | _ | -]. | | | | -15 6 | 1 1 | Second Select | - | - | Name out by 1911 | ١. |
| | | | life estima | | | | | | | | | - 1 | 01 | CUINTS | - 1 | 914 . | a I | 7 | Contract of the last of the la | | | 15% Good What Decay 35% decayed | 400 |

| 1 | | 2 | 3 | 4 | .5 | 6 | 7 | 8 | 4 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|------|-----|------------|--|---------------|--|----------|-----------|---------|-----------------------------|----------------|----------------------|-------------|------------|-------|----------|-------|------|------|-----|--------------|------|-------|--|-------|
| | | WOODIL | INE - DI | PPED | mark. | | | | | | | | | | | | | | | - | | | | |
| 14. | | _ | 1- | _ | 75 | 1.53 601 | - | 1897 | - | SALBTRY | - | - | - | - | Yes | - | 1899 | 2 | 0 | - | 6000 | 1 - | | 2.00 |
| 15. | | WOODIL | INE - PAI | NTED (HO | 150 | | | 10 | | | | | - | | | | 1. | | 1 | | | | | |
| 1 | 20 | ZINC 6 | | DE - 8011 | | - | - | " | - | d. | | - | - | - | do | - | 10 | . 2 | 0 | - | 16 | - | - | do |
| 16. | | _ | - | - | T 6 | - | - | 1902 | Beoument, Tex | 6.0 +5 F. | Sand | Poor | 60 | cut | None | Heavy | 1912 | 10 | 17 | - | _ | _ | Started to fail 1911 | 11.00 |
| 1 | | | CHLORIO | E - BURNE | _ | | | | | | | | | | | | | | | | | | | , |
| 17. | | 1.0.18.4. | Sound d. | | 68 | = | - | 1901 | Rowayton, Court | MYNH.+H | stone | drain chass | 100 | do | 5.8 Mits | - | 1914 | 15 | 100 | Decoy | - | 15 | - | 3800 |
| 17. | | 1. | 1 | | 67 | 1 = | | 10 | 6 | 1. | do | 4 | 1 | 4. | 4 | _ | 1 | 4 | 20 | do | - | - | Expect to remove 15% in 1915 Balance in 1916 | do |
| 17.4 | 200 | do | 1. | _ | 14 | - | _ | 4 | 6 | 1. | do | 1 | 4 | 1 | 1. | _ | 1 | 1 | 100 | Docay | - | | do 9% do 10 1916 | 4 |
| | | ZINC CH | EOSOTE | -ALLARI | PYCE | 13.33 | 1 | | | | | | | | 100 | | | - 22 | - | 1 | - | | | ~ |
| 18. | | | - | _ | 50 | - | 224 21 MG | 1902 | Seaumont Tex | 6.C. 75 F. | Sand | Poor | 60 | Cut | None | Heavy | 1912 | 10 | 14 | - | - | - | started to fail 1908 | 11.00 |
| 19. | | EINC CH | - | BEAUN | 50 | | 0.8 21110 | | , | , | do | | - | , | 10 | | 1, | | 20 | | | | | |
| | | ZINC TA | A CONTRACTOR OF THE PARTY OF TH | WELLHOU | | - | MONY CHO. | do | 4 | 20 | do | Lo | 60 | do | | " | 10 | 10 | 40 | - | - | - | 38% removed 1908 | 4. |
| 20. | 1 | - | _ | _ | 100 | - | 0.33 | 1. | 1. | 1 | de | 1. | 60 | do | 4. | 1. | 1. | 10 | 55 | _ | _ | _ | 55% removed 1908 | do |
| | | | | | | | | | | - | INE . MO | UNTAI | y — | | | 7700 | | 200 | - | | - | - | 1700 | 00 |
| 21.1 | | OIL, BAK | ERSFIEL | P | | | | | | | | | - | | | | | | | | | | | |
| 21.2 | | | = | == | 3 | | | 1902 | Beaumont To a | GC 75 F. | Sand | Poor | 60 | Cut | None | Heavy | 1912 | 10 | 0 | _ | - | - | | 11.00 |
| 1 | | OIL BAKE | | ANO ZIN | | DE - BUK | ENETT | - | | do | 4 | 4 | 60 | * | do | 6 | 10 | 10 | 67 | - | Good | - | Token out for inspection | 4 |
| 22.1 | / | - | - | - | 8 | - | _ | de | de | do | 1. | de | 60 | 4. | 4 | de | de | 10 | 0 | _ | _ | _ | | 4 |
| 1 | | ZINC CH | LORIDE | · BURNET | 1 | | 1 | | 1 199 | | | | | | | | | | | | | 1 | | |
| 23.7 | | - | - | - | 10 | - | 0.35 | 1 | de | 4 | do | 1. | 60 | 1. | 10 | 1. | 00 | 10 | 20 | - | - | - | Started to fail 1906 | 1. |
| 25.3 | 100 | | | \equiv | 30.5 | = | 028-047 | 1885 | New Mex O.V. Topako Nas. | ATTSF | Soil or Stone | - | _ | - | - | | - | - | _ | _ | - | かずーの生 | | 2.00 |
| | | ZINC TA | NNIN - WE | LLHOUSE | 00.0 | | _ | 1000 | rojoena nas. | | _ | | _ | - | | Heavy | 1896 | 11 | 0.7 | Spike Killed | | _ | 4. | de |
| 24. | 1 | - | - | - | - | .78 | - | 1886 | West | U.P. | | - | _ | _ | - | - | 1878 | 12 | _ | _ | _ | 8 | Proctically all out 1844 | do |
| 24. | 5 1 | - | - | _ | - | 4 | - | 4 | 4. | 6 | - | - | - | - | - | - | 4 | 12 | - | - | _ | 8.5 | do 1895 | 4. |
| 24_ | 3 | - | - | _ | - | de | - | 4 | Jo | | - | - | - | - | - | - | do | 12 | - | - | - | 9 | 1. 1846 | 4 |
| | и | WOOD TAR | CREOS | OTE | | | | | | | INE PIT | LH | | 1 | | 1 1 1 | | | | | | - 1 | | |
| 25.1 | | _ | _ | | 1 | 10 | - | 1009 | Williamsport, Po. | A System | _ | _ | _ | _ | _ | _ | 1914 | _ | 100 | _ | _ | 8 | Worn out | 20.10 |
| | + | | | 2-0.0 | | 5350 | | 000 | | | INE - REL | NOR | NAY. | | | | | | - | | | - | 11077 007 | 20.10 |
| 1 | | ZINC TA | | NELL HOU | T | | | 100 300 | | 0 | | | | | | | | | | | | | | |
| 26. | 1 | - | - | Seasoned 6 mo | 86 | - | | 1890 | - | Dr I.M. | Gravel VINE - RIE | | 80 | Cut | _ | Light | 1908 | 18 | 100 | - | - | 15 | Relaid on light side of doublahah | 33.10 |
| | 0 | INTREA | TEO | | | | | | | | THE THE | 74- | | | - | | | | | | | | | |
| 27.1 | | 1.5×9" | _ | _ | _ | - | - | - | Denmurk | Hammel Authors | _ | - | _ | _ | _ | _ | _ | 2 | 27 | _ | _ | | | 9.00 |
| - | + | | | | | - | | | | Authus | PINE- SA | 1P | | | | | | | | | | | | 7.00 |
| | | COPPER | AND IROI | SULPHA. | 44 | HERIE | 1 1 | 200 | | | | | | | | | | | | | - | | | |
| 28.1 | | DIAMONI | - wood | PHESEN | 1000 | - | - | 1869 | N. Hamburg | Hiver Mik | - | Poor | - | - | - | Heary | 1882 | 15 | - | - | - | _ | Process too todious | 2.90 |
| 29.1 | 1 | -". 9". 6" | HEND | - | 500 | 0.450/ | 0.11801 | 1907 | Se Mancock | GHTSA | 5/09 | _ | _ | Cut | Glendon | | 1914 | 7.0 | 0 | | | | | |
| - 10 | | | president and the second | - BURNE | 10.00 mm mm | | | | and ISBY TOX | | 2.24 | | | 001 | O-EMBON | - | 1414 | 7.5 | 0 | - | Good | | Decaying fast matonly few years | 7.00 |
| 341 | | - | - | - | 1844 759 | - | - | 1905 | - | 345 Fem | _ | - | - | - | _ | _ | 1907 | 4 | 3.4 | _ | _ | _ | Changed to Rusping | 4.00 |
| 30 2 | 2 7 | 18.8. | Henn | Systemed some | 354 | 1.443 | 0 4122 | 1905 | Sankean + | 6 H. 75.A. | - | - | - | Screw | - | - | 1914 | 9 | 100 | - | _ | 5.4 | Any life estimated by Farest Service | 7.00 |

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| | | | |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-------|-------------|----------|----------------|-----------|-----------|-----------------------|---------|-------------------------------|--------------|-----------------|----------------|--------|-------|-----------|----------|------|---------|-------|----------|---------|-------|---|------|
| 30.3 | 72928 | Hown | Seasoned 3 mil | 333 | 1.443 | 0.4/22 | 1905 | San Leon and Bayview. 78 x | 6.H.+S.A | _ | _ | _ | _ | 6/endor | _ | 1914 | 9 | 99.3 | _ | | 5.6 | storted to fail 1909 - Avg Life astimated | 7.0 |
| 30.4 | d. | 16 | 4. | 554 | do | do | do | do | 10 | _ | _ | _ | _ | None | _ | do | 9 | 94.6 | | _ | 5.5 | do do do | 7.0 |
| | ZINC CRE | OSOTE | | | | | | | | | | | | | | | | | | | 1000 | | /// |
| 31.1 | 7.8.8. | Hown | - | 750 | 127 cred. | 0.27 ZIAC 4.49 GHO | 14 | Solveston, Tex. | do | - | - | - | Scien | - | - | 4 | 9 | 18.0 | _ | _ | - | Creosoled 8mo offer her mer which | 1 |
| 31.2 | 1. | 1. | _ | 126 | 4 | 4 | 1. | do | 4 | - | - | - | - | Glonder | - | 1 | 9 | 6.5 | _ | _ | - | 80 | 1 |
| 31.3 | 4 | 4 | - | 127 | 1. | 4 | 4. | de | do | - | - | - | - | None | - | 10 | 9 | 51.2 | - | - | 8.3 | Any Life estimated by Forest Service | 1 |
| | ZINC TAI | WIN W | ELLHOUSE | | 4 | | | | | | 1 - 1 | | | | | | | 1 1 X | | | | ANY ATTENTION OF POPELL SERVICE | 1 |
| .32.1 | - | - | _ | 1,300,612 | - | _ | 1901 | _ | System | - | - | - | 7.5 | 1- | - | 1907 | 6 | 22 | - | - | - | Changed to Burnetlizing | 1.0 |
| | CREOSO | TE | | | | 1 | | | | | NE SH | JUN. | I | 1 | | - | | | | | | | |
| 33./ | | <u> </u> | N Carroll | 2494 | 2.560/ | 1000 | 1907 | scio. ohio | B. System | _ | 100 | 1 | 100 | - | 1 | 1912 | 5 | | | | U.E. | | |
| 33.2 | _ | _ | Seasoned Smo | 300 | _ | 8 | 1910 | | | 10000000 | 3 - 3 | | | | | 1914 | 4 | 0 | _ | Good | = | | 20. |
| 35.3 | _ | _ | Seasoned & ma | 263 | _ | 0 | 4 | 4. | 4 | _ | | | | | 10000 | do | 4 | 0 | _ | | | | 30. |
| 33.4 | - | _ | offer meet. | 5000 | - | 12.0 | 1879 | - | CRRSH.J. | | _ | = | = | = | = | 1908 | _ | - | = | - | 15.5 | Coarse grain Penn. tine | 1.0 |
| 34.1 | CREOSOT | E-RUE | TNG | 49000 | _ | _ | 1907 | Jowa | C.M. TSt. P. | _ | - | | | Yes | 1 | 4 | 7 | _ | V | Aerfect | | Raileut all removed 1918 | 6.1 |
| | CREOSOTE | -STEA | MING | | | | | | | | Jan 1 | | | | | | | | | | 1 | | |
| 35.1 | 72929' | - | Seasoned 4 mo. | 150 000 | 5901 | 417601 | 1880 | Houston Tox | H. T.C | 1 - | _ | _ | _ | _ | 20 | 1882 | 2 | 0 | | Sound | - | Life untreated 29rs. | 2.4 |
| | CREOSOTE | COAL T | AR - FULL | CELL | | | 100 | | | 1000 | | | | | | | | | | | | | |
| 36.1 | _ | _ | _ | _ | _ | 10 | 1890 | Jomesa, | Tunne/ | - | - | _ | _ | - | = | _ | _ | _ | _ | _ | | Many Sound offer 23 yrs. service | 39. |
| | CRESOL C | CALCIUM | 1 | | | | | | 200 | | | | | | | | | | | | | | 4 |
| 72/ | 7:928 | - | Well Seasoned | 104 | - | 1.15 | 1910 | Alabama | T.C.I.H.Co. | - | | - | _ | Goldie | _ | 1914 | 4 | 3 | - | _ | - | 47% Good - 45% Portly decayed | 21. |
| 37. 2 | 1. | - | 1. | 102 | _ | 0.85 | 4 | 4 | 4 | _ | - | - | _ | 4 | _ | 1 | 4 | 7 | _ | _ | - | | 1 |
| 32.3 | 1. | - | 4 | 101 | - | 0.51 | 4 | 4 | 4 | - | - | _ | _ | 4 | _ | 4 | 4 | 20 | _ | _ | - | 15% Good - 24 h Part decay of - 63% decay of | |
| 37.4 | 4 | - | 4 | 95 | - | 0.27 | 40 | 4 | 4 | - | - | - | - | 10 | - | de | 4 | 30 | - | - | - | 5% 1. 13% 1. 82% 1. | |
| | OIL BAKE | RSFIELL | 7 | | | | | | | | | | | 100 | | | | | | | | | |
| 38.1 | | - | _ | + | - | _ | 1802 | Bessmant, Tex. | B.C. t.S.F. | Sand | Pin | 60 | Out | None | Heavy | 1912 | 10 | 15 | - | - | - | One out for inspection | 11. |
| | SALTS BA | RSCHAL | L HASSEL | | | | | | | | | | | | | | | | | | 1 | | |
| 39.1 | _ | _ | - | 98 | - | - | de | 40 | 40 | de | 10 | 60 | 4 | do | do | de | 10 | 99 | | - | 4.9 | 75.5% gut 1906 - 23% out 1908 Arg Lite estimated by Parest Service | - |
| *** | UNTREAT | 20 | | | | | | | | | | 1 | | | | | | 9 | | | | | |
| 40.1 | | | | 100 | _ | - | 10 | 40 | do | do | 6 | 60 | 4 | 4 | de | 1906 | 4 | 100 | - | _ | 3.4 | 15 % out in 1904 to lite estimated by Forest Service | - |
| | ZINC CA | YZONIO | E- BOILE | | | | | | | | | | | | | | | | | | | | |
| 41.1 | ZINC CH | 110000 | BURNET | - 4 | - | - | 4 | 4. | 4. | 4 | 1. | 60 | 4 | de | do | 1912 | 10 | 25 | - | - | - | 25% removed 1908 | |
| 421 | - LINE CH | LUNIUE | - BURNET | 3 | | 1.37 | 4 | 1 | 1 | | , | | , | 2 | , | , | | | | | | 4 | |
| 412 | | | | 100 | | 1 | 1. | 6 | 4 | 1 | 4 | 60 | 4 | " | -01 | 4 | 10 | 67 | - | - | - | 67% removed 1906 | 1 |
| 123 | | | Unscosoned | 5048 | d 25°80 | 0.55 | 1885.91 | Glidden Dist | 5. P. | Bravel | Good of Air | 60 | 10 | de | | 10 | 10 | 62 | | _ | - | 61% de 1908 | 12 |
| 424 | _ | _ | 4 | 41691 | 2957 | ome-0.50 | 1 | Ser Antimo airk | 4 | | 10 30" | 100000 | | | = | 1898 | 7-13 | 100 | Rot 92% | - | 6.75 | Life untreated - Separed 4.5% Byes 6-9411 | 2.0 |
| 41.5 | 2 | | 6 | 15564 | 7 | - | 4 | Del Aio Dist | 1 | do | 4 10 10 | 50 | | | _ | 4 | de | do | 10 88% | - | 8.16 | do | de |
| 426 | | | 4 | 2607 | / | | 4 | Sandarian Dist | 4 | None | 4.10:40 | 50-60 | | | = | 6 | " | 4 | de 92% | | 2000 | * | 1 |
| 42.7 | _ | _ | 4 | 12899 | 1. | 1 | 1 | Whenting Out | | 18% Fine Gravel | 410.15 | 50-70 | | | _ | 4 | 4 | 4 | do 66% | | 6:67 | * | 4 |
| 428 | _ | _ | 4. | 13397 | 1. | | 4 | El Am Dist | 10 | Hone | 4.8.10 | 61.5 | | | | 0, | 6 | 4 | 4 01% | | 7.00 | 2 4 | 1 |
| 42.9 | 6"x8"x8" | _ | _ | 500 | _ | 0.5 | 1906 | Momiden S.D. | C.H. T.Sh.P. | Brave/ | fair | 85 | Cut | Hallande | | 1914 | 8 | 10.6 | Rot | Good | | Mone removed before 19/4 | 6. |
| 12.10 | 6 | _ | _ | 500 | _ | 4 | 1903 | Hashington Ires | 4 | 4 | Good | 85 | 10 | Margh 19 | | 1915 | 12 | 10.0 | do | 4 | | do 1913 | 1 |
| | ZINC CRE | OSOTE | | | | | 20.00 | Second Control | | | Con Control of | 1 | | .9// | | | - | | | | -77 | 100 | - |
| 43.1 | _ | _ | - | 50 | _ | A3 ZING | 1902 | 4 | 1 | do | _ | 85 | _ | 10 | _ | 16 | 10 | 06 | - | - | 1 | 86% removed 1906 | 11.0 |
| 43.2 | | - | _ | _ | | 224 2 mic | 1905 | | St.1. TS.W. | _ | - | _ | _ | | _ | 1908 | 3 | | | _ | | TO STEMBLED TION | 1.00 |
| | o Prelimina | ry Year | on 12 lach for | 2 Hours | - Belimin | ory Temp | . 106 | F for 2 hrs. | - Mox Pro | sore 16 \$ per | sg. In at | 160°F | for o | 9.5 hours | Final Va | | | for 0 | Shours - | Fina | / Air | for 6.5 Hours | 7.0 |
| | 0 | 1. | 10 Inch for | 1 Hour - | | 1. | 1000 | F for I Har . | . 1 | | 10 | 100% | for d | 5.5 Hours | - do | | 10 Inch | | 4 | 1 | 4 | 15 Mours | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|--------------|----------------|-------------|-------------------------|---------|---------|-------------|--------|------------------|--------------------|--------|----------|------|------|----------|-------|-------|------|------|----------------|---------|-------|--|--------|
| | ZINC CA | FOSOT | E-ALLAR | DYCE | | | - | | | | | - | | | | | | | | | | * | |
| 44.1 | 21110 011 | 1 | 1 | 50 | _ | S.O Creo | 1900 | Beaumon! Tex | 00.00 | Sand | Poor | 60 | cut | None | Heavy | 1912 | 10 | 44 | _ | | 1 | 42% removed in 1908 | 11.00 |
| 7.342 | TIME TO | ~~~~ | NELLHOUS | | | 1 0 0 0 | ,,,, | CABONON, YEA | 0.0.75.7. | 22,12 | 1001 | 00 | 20, | ****** | 2112 | | , , | 7.0 | | | | | ,,,,,, |
| | ZINC IA | MMIN - I | VELLHOUS | т 1 | | | ., | , | , | | 1 | | | , | , | | | | | | | nad | |
| 45.1 | | _ | _ | 100 | | 0.33 | 1. | 4 | 10 | de | 1 | 60 | 4 | - de | do | 4 | 10 | 80 | | - | _ | 79% removed in 1908 | 1 |
| 45.2 | 6.8.8 | - | _ | 500 | - | - | 1903 | Washington, Tom | G.M. TST. P. | - | 1 - | 85 | - | neplates | - | 1914 | 11 | 10 | Rot | - | - | | 6.10 |
| | 1 | 5.0 | | * | - | 1 | | | 1000 | | INE - S | WE | DIST | 1- | | | | | | | 1 | | - |
| | UNTREA | TED | | | | | | | | | | | | | | | | | | | 333 | Charles and the same of | |
| 46.1 | 64×84 | - | - | 18000 | - | - | - | Denmark | Lyngby Nedback | _ | - | - | - | - | - | - | 9 | 72 | - | - | 7.5 | Any life estimated by treest Service | 9.00 |
| 46.2 | 1. | - | - | 60000 | - | - | - | 4 | Sy berg | _ | - | - | - | - | - | - | 12 | 48 | - | - | - | | 1 |
| 46.3 | do | _ | _ | 47000 | - | - | - | 4 | 0-x-00/69 | _ | - | - | - | _ | _ | - | 9 | 49 | - | - | - | | 1. |
| 46.4 | 6:0" | _ | _ | 20000 | | _ | - | 4 | Veile Bive | _ | _ | _ | - | _ | - | _ | 16 | 80 | - | - | 10.6 | Ang. Lite estimated by Priest Service | 1 |
| 46.5 | 61 x 81" | _ | _ | 34 300 | _ | _ | 1896 | | Hillowed | _ | - | _ | _ | _ | _ | 1909 | 13 | 74 | _ | _ | 10.0 | 2. | 1. |
| 46.6 | 4 | 16.0 | | 84000 | | | - | 4 | Odshered | _ | | 100 | | 100 | _ | | 111 | 73 | | | 80 | 10 | 4 |
| 46.7 | 4 | 100 | | 10000 | | | | 4 | Kallahore | | | | 3 | | | | 11 | 94 | | | 7.0 | 4 | 1 |
| Secretary of | All the second | _ | _ | 1275676 | 10000 | | | | F10001-301-529-711 | | | | | | | | 100 | 45 | | | 1.0 | | -010 |
| 46.8 | 6".8" | _ | _ | 40000 | _ | | - | 4 | Tyberen | _ | - | - | - | = | - | - | 11 | 0.0 | _ | | _ | | - |
| 46.9 | 6"x8" | - | - | 40000 | _ | _ | - | 1 | laredell | _ | 1 - | 1- | - | - | _ | - | 13 | 43 | - | - | | | 1 |
| | 2000 | 100 | | | | | | | 0 | | PINE - V | INGI | MIN. | | | | | | | | | | 1 |
| | CREOSO | TE-H | AYFORD | | | | | 1 | | | | | 14 1 | | | 1 | | | | | | | 1 |
| 47.1 | _ | _ | Seasoned Several mo. | 10000 | _ | - | 1175-6 | Bound Brook | C.R. of N.J. | _ | - | - | - | _ | _ | 1883 | 8 | 0 | _ | Sound | - | Slight rail cutting | 2.40 |
| 47.2 | | - | _ | 10000 | - | - | 1878 | 10 | P.+R. | _ | - | - | - | - | - | 1882 | 4 | 0 | _ | O.K | - | Favorable closed | 4 |
| - | | | | | | - | - | - | | F | INE-WI | HITE | _ | | - | - | | - | | | | | |
| | SULPHATE | OF COPP | ER OR ZINC | AND BAR | IUM CH | LORIDE - | THILM | ANY | | | | 1 | 1 31 | | | | | | | | | | |
| 48.1 | | | | 1006 | _ | - | | Wallington Cont. | MENNTH | stone | - | 24 | cut | | _ | 1896 | 15 | 100 | _ | _ | 11-15 | | 38.00 |
| | UNTREAT | En | | ,,,,, | | | | , | | | | 1874 | - | | | | 1 | 1 | | | | | |
| 49.1 | Diring. | | | | | | 118 | 1 .00 | | 63. 4 | | - | | 10-07 | | | - | | | 1 | 1 | 10% forteres due to decay | 33.00 |
| 47.7 | | | | | | _ | - | - | 6.8.79 | | | - | - | | - | | _ | - | _ | - | 5 | 10% towers are to seemy | 33.00 |
| 1000 | ZINC TAI | YNIN-W. | ELLHOUSE | | | | | | 11. | | | 100 | - 1 | | | 1000 | 14.3 | 1.0 | Same. | | -1 | -11 1+1111-1-1-1-1 | |
| 50.1 | - | - | Seasoned 6 mo | 85 | _ | - | 1890 | - | 0.71 Ry | Gravel | 6000 | | Cut | - | Light | 1908 | 18 | 100 | Few broken | 1- | 15 | Track changed to double track undamond thes replaced in track for Light Craffit | 37.10 |
| | | | | | | | | | | , | PINE - Y | EZZ | OW- | | 1 | | | | | | | A | |
| | CREOSOT | Ť | | | | | | | V | | | | | | | | | | | | | | |
| 541 | - | - | _ | - | _ | - | 1884 | New York City | Grand Yard | - | - | - | - | - | Heavy | 1900 | 16 | - | - | Arriest | - | Relaid 1900 | 29.50 |
| 51.2 | - | _ | _ | 8000 | _ | 12 | 1907 | _ | O.L.+W | - | - | - | - | Yes | _ | 1914 | 7 | 100 | Crushing inder | _ | - | The same of the sa | 1.26 |
| 513 | - | Bridge Ties | - | 12000 | | 12 | 1905 | Buffalo Or | 4 | _ | - | - | - | 1. | _ | 1 | 9 | 100 | _ | - | - | silled by steering prior to trestime of | 1 |
| | TEREDO | | PAINT | | March 1 | | | | | | | 1 | | | 100 | | 1 | | | | | 27 | |
| 52.1 | _ | | | | | 1 1_2 | 1899 | | Flo. St. Ry | _ | _ | _ | | _ | _ | 1907 | 8 | _ | | Good | - | | 36.00 |
| | UNTREA | TED | 1 | | | | | | ,,,,,,, | | | 1 | 1777 | | | ,,,,, | | | | | | | 00,0 |
| | JH THE MI | T | 1000 | 7510 | - | 1 2 | | - | 44440 | 100 | 1 | - | 1000 | Lan I | | | 10 | 110 | - | 1 | | | |
| 53.1 | - | - | - | 7500 | - | - | 1900 | I I SAGO SA PA | C.N. + SY. P. | - | _ | - | - | - | - | 1910 | 10 | 41.8 | _ | - | - | | 1.10 |
| 53.2 | - | - | - | 14688 | - | - | 1903 | | MICHAR | - | - | - | - | - | - | 10 | 7 | 12.3 | - | - | - | | 1 |
| 53.3 | - | - | _ | 2/805 | _ | - | 1901 | PENN | P.TR | _ | - | - | - | - | - | 1914 | 13 | 43 | - | - | - | | 1:10 |
| See | CHESTNU | T Index | No. 3.3 | | | | | | | | | | 0.10 | | | | | | 4 | | | | |
| Sec | | | | | | | | | 0 1 3 | | | | | | | | | | | | | | |
| See | WWITE OAK | Index No | 5.5 5.5 7. 3.8 | Incl. | | | | | | // | | 2 | | 1000 | | | | | | | | | |
| | | - | | | | | - | - | - | | PINE - | GEO | RGIA | YELL | ow- | | - | - | | - | | | - |
| | W000 T. | AR CRE | OSOTE | | 1 | | | | | | 1 | 1 | 1 | 1 111 | 1 | | | | | | | | |
| 541 | | 1 - | | 96 | 1 - | The case of | 1897 | Ballimore, Md. | Pa System | 1 420 | 1200 | - | 1 | 10000 | - | 1914 | 4 | 100 | Crushed | | 7 | | 20.1 |
| - | | 1 | OTE - BRUS | | | | 1 | | July 2 rom | | | | | | | 1 | | 1.00 | - round | 1 | 1 | | 7011 |
| | 1000 14 | I CHE US | 1 | T | 1 | | | | | | 1 - 1 | | | 1000 | - | 1, | 1 | | | | 1 | | 1 |
| 55.1 | | - | | 42 | - | - | 1818 | 1. | do | - | 2000 | COUT | - | 1 75 | - | 1. | - | 100 | Decay | - | 10 | | 10 |
| | | 1 | | 10000 | | | | | | | INE-3 | DUIT | EMI | YELL | ow - | | - | | | | | 7 | |
| | CREOSO | 1 | | 10000 | | 1 100 | 130 | The course of | 1 | | | 1000 | 1 | | | Mari | | | W. Carl | | | | 0.3 |
| | 17:9.18 | Newn | - | 6000 | - | 10 | 11894 | Four Honer Gan | NYNH OH | Stone | Damp | 100 | sut | None | 100 | 19/4 | 20 | 1000 | Derey | 1 Canad | 1525 | 25 Ties still sound | 38.00 |

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|-------------|---|--|--|-------------|---------|----------|--|--|---------------|----------|-----------|-------|--------|------------------|------|-----|--------|-------------------|----------|--------|--|-------|
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 12 | 25 | 24 |
| 7"49" 18" | 4 00 000000 | _ | 500 | - | - | 1906 | Fair Harry Comm. | NYNH.TH | stone | Damp | 100 | - | - | - | 1914 | - | - | - | - | - | nephoned 1894 | 38.00 |
| CHEOSOTE | COAL TA | | | 1 | 1 - | Took it | | | - 1 | - 3 | | | | | | | 1 . 3 | | | | | |
| 1 | _ | | 1 - 1 - 1 - 1 | - | - | P 2000 | | The Control of the Control | - | - | - | - | - | - | 1. | - | 100 | - | - | 9.0 | Record not complete | 20.10 |
| _ | - | | | | - | | | | _ | - | - | - | - | - | 1. | - | 1000 | The second second | - | 7.5 | 4 | 1. |
| | | | 100000000000000000000000000000000000000 | | | 1 30 | | 100 | | _ | - | - | - | - | 4 | - | 1 30 1 | 10% decay | - | 9.0 | 4 | 1 |
| = | - | 15 | 1000000 | | | 13.0 | | | | 1 | - | - | - | - | " | - | | _ | - | 100000 | | 1 |
| | | | 100000 | | | | | 1 | - | - | - | - | + | - | 1 | - | | | - | | | 1. |
| | | | 120 | | | - | - | ~ | P. | INE - W | | ERI | YEL | LOW- | " | - | 100 | 1 | Good | 10.0 | Good condition 1911 | do |
| | | Unpected + Sebsourd Isp | 15 | - | - | 1910 | | | _ | Bood | - | cot | None | 2941 | 1914 | 4 | 0 | - | seed. | - | 3 Partially descayed | 41.00 |
| CREOSO | E-FUL | CELL | | | | | | | | | | | | | | - | | | 19.03 | | | |
| - | - | _ | | - | - | 1910 | Honorer, JII. | CB. r.g. | Shender Good | - | 90 | - | All | - | 1912 | 2 | 0 | - | _ | - | | 5.00 |
| | _ | | The state of the s | - | - | 1000 | | 1. | 1. | - | 1 | - | 1000 | - | 4 | 2 | 0 | - | - | - | | 4 |
| THE RESERVE | | | | - | - | 1 | Barr Colo | 4 | Lyons Store | Very Dry | 90 | - | 4 | - | 10 | 2 | 0 | - | - | - | | 1. |
| - | _ | _ | _ | - | - | 1857 | Chil. S.A. | SouthonRy | _ | _ | _ | _ | _ 3 | | 1860 | | _ | | - | 1 | Equalla. | 2.40 |
| UNTREA | TEO | | | | | | | | Section 1 | | | | | | | | | | | | 7 37 37 37 27 2 | 2.40 |
| - | - | _ | 55 | - | - | 200 | Lines East | Carg. | Burnt Clay | - | 10.00 | - | Partly | - | 1914 | 5 | 70.0 | Rot | - | - | | 5.00 |
| - | - | - | | - | - | 1000000 | 1. | do | Brave | _ | 90 | - | 411 | - | 1. | 4 | 31.6 | de | - | - | | 1 4 |
| - | - | - | 10.00 | - | - | 1000 | | 11 | | - | 85-90 | - | Yes | - | 4 | 5 | 65.4 | di | - | - | | 1 |
| WAAR TA | P CREA | - | 15 | _ | - | 1910 | 4 | 10 | Lyons Stone | - | 90 | - | 4 | - | 16 | 4 | 15.0 | do | - | - | | 10 |
| | - | _ | 17 | _ | _ | 1912 | Alle + deter | A. S. chem | _ | 200 | | 1 | | | 1010 | | in | | | - | 1 1 12 | |
| ZINC CH | LORIDE | - BURNET | | 1 | | | 7,004. 7 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | 1714 | | 100 | peray | _ | 3 | necord not complete | 20.10 |
| - | - | 1 | 30 | - | 0.5 | 1910 | Henorer Ill | 0.810 | Sheridan Good | _ | 90 | _ | All | _ | 1914 | 1 | 10 | Rot | _ | _ | 16% solit | 5.00 |
| - | - | - | 20 . | - | 4. | 1. | Blanding Ill | 1. | 1. | - | 90 | - | do | _ | 4 | 4 | 5 | split | _ | _ | | 1. |
| - | - | | 30 | - | 1. | 4 | Borr Calo | 4 | Lyms Stone | Key Ory | 90 | - | 1/25 | - | 1912 | 2 | 0 | _ | | _ | | 1 |
| ZINC CR | FOSOTE | - CARD | | | | | | | | | 200 | | | - | | | | | | | | |
| - | - | - | 100000000000000000000000000000000000000 | - | 20 Creo | | The state of the s | | Burnt Clay | - | 75.85 | _ | Partly | | 1914 | 5 | 9.5 | split | _ | _ | | " |
| 427 | 1 | 1 | | - | 4 | 152300.7 | The second second | | Grave | _ | 90 | - | | - | 4 | 4 | 0 | - | - | - | 4% split | 1. |
| | | 1 | | - | 11300 | 1000000 | | 1000 | | - | 11000 | - | | - | 6 | 5 | 34 | | - | - | - | |
| | | | 40 | | - | 1410 | | | | WOOL | | ALT | | _ | 1 | 4 | 0 | - | - | - | | 10 |
| CREOSOT | E - FULL | CELL | | 7 | | | | | | ,,,,,, | | | | | - | - | | - | | | | |
| 5:10:18-11 | Sowed | Mersooked thee | _ | - | 1901 | _ | England | gelfatt. | _ | _ | Sall head | Serew | | _ | _ | | | solit | - | 15 | | 2.20 |
| 1. | 4 | 4 | - | - | 8 | - | 4 | Furness Ry | | _ | 10 | 4 | _ | _ | _ | _ | | _ | \equiv | | 40000 Annual renewals | 10 |
| 1. | 6 | 4 | - | 2.560/ | 8 | - | 4 | MAN Barnety | _ | - | 4 | 4 | _ | _ | _ | _ | _ | _ | _ | _ | | 1 |
| 1. | 4 | 4 | - | 1 | - | - | 4. | Gr. Eastern | - | - | 4 | 4 | _ | - | - | - | - | Hear | _ | 12.15 | The state of the s | 4 |
| 1. | 1 | 1. | - | - | 0.760/ | - | | -010000000 | - | - | 4 | 4 | - | - | - | - | - | _ | - | - | | 4 |
| 100 | | | _ | TO THE LAND | | - | 4 | 1.+ HW | _ | - | 4. | 4 | - | - | - | - | - | Wear | - | 16-20 | 300000 Annual renewals | d. |
| | | | | 1.5601 | | - | | - | _ | - | | 4 | - | -, | - | - | - | terr-split | - | 12 | 170 000 10 | 4 |
| 1000 | 100 | | | | 2000 | | | | | | | | | Light | - | - | - | | - | 25-30 | | 4 |
| 7.64 | | | | 11 | 1000 | | | | _ | - | | " | | - | - | - | 40 | do | - | 16 | 20 permile 40% decay | 4 |
| 77.77 | 3.25 | | | 200 | | | M. The same of the | 2000 | | | | 0.00 | | - | - | = | - | _ | - | 15 | | 4 |
| 1 | 4 | 4 | _ | - | 13760 | _ | | | | | | 4 | | E 1 | | | | Weer | | 200 | | de |
| | | | | | | | | | | | ., | ~ | | | | | | | | 15 | 17000 10 | 1. |
| | UNTREASON COPPER. COPPER. UNTREA ZINC CH. ZINC CH. CREOSON SINISM H. | UNTREATED CREOSOTE - FULL COMPER SULPHAT UNTREATED WOOD TAR CREO. ZINC CHLORIDE ZINC CHLORIDE CREOSOTE - FULL SIN'S SIN'S SINCE A A A A A A A A A A A A A A A A A A | UNTREATED GREDSOTE - FULL CELL COPPER SULPHATE - BUCHE UNTREATED WOOD TAR CREOSOTE ZINC CHLORIOE - BURNE: SHOWN SULPHATE - SUCHE WOOD TAR CREOSOTE ZINC CHLORIOE - BURNE: SHOWN SULPHATE SHOWN SULPHATE A SHOWN SULPHATE SHOWN SULPHATE LINC CREOSOTE - CARD: CREOSOTE - FULL CELL SIN'S S'' SUND SULPHATE A A A A A A A A A A A A A A A A A A A | | | | | 1901 Alkers Ps. 1800 1901 Alkers Ps. 1850 | | | 180 | | | 190 Millows Pa | 180 | 185 | | 180 | 195 | | STO | 150 |

| 1 | 2 | 3 | 4 | 5 | 6 | 1 7 | 0 | 9 | 10 | 11 | 12 | 13 | - | - | 1 | | 100 | 1 .0 | | | | | |
|--------------|----------|-------------------|--------------------|----------|---|----------------------|------|--------------------------------|---------------|---------------------------------------|-------------|-------|--------------|---------------------------------|--------|------|-----|------|-------|------|-----|---|-------|
| | ZINC CH | 1 | | | - | + | - | 1 | 10 | - " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23, | 24 |
| 2./ | | _ | | - | - | - | - | Russia | SIRBULA | | - WOOD - | - | - | | - | - | - | - | | - | 8 | Life untreated ayes | 29.20 |
| 3.1 | _ | - | AVENARIUS | 1200 Ff | - | - | 1903 | Hawaii | Hanglolu. | - | _ | - | | Simpleti | _ | 1913 | 10 | 0 | _ | - | - | Now. Calif. Pertwood - in excellent condition | 39.00 |
| 4.1 | _ | - | _ | 2 | - | - | 1902 | Besument, Tex | 6.C+3.F. | Sand | Poor | 60 | cut | Hone | Heavy | 1905 | 3 | 100 | _ | _ | _ | Started to Fail 1905 | 11.00 |
| 5.1 | - | - | - BURNET | 8 | - | 0.35 | 1 | 4 | 1. | 40 | 4 | 60 | 10 | 4 | 10 | 1. | 5 | 100 | _ | _ | _ | 40 | 4 |
| 6.1 | 0.10° | TE - FUL Sound | Green | - | - | - | 1860 | Moss. | 811 | - | PRUCE - | - | - | - | Heavst | 1869 | 9 | 100 | split | - | - | | 2.40 |
| 7.1 . See | PINE Ing | ex No 1 | Seasoned 6 | 25 | - | - | 1911 | Hartford Was | CH. ISt. P. | Gravel | Good | 90 | tert tome | \$ 0.3 rolled these no large | Heavy | 1914 | 3 | v | _ | - | - | | 27.00 |
| 50e | | es No 46 | E - BURNE | | - | | 1355 | Moss. | Union TABI | E 28 - 5 | | _ | _ | . 1 | Light | 1883 | 28 | _ | _ | 6ood | _ | Horse car trocks | 2.40 |
| | CREOSO | TE-FU | LL CELL | 1 | | | | | 77102 | 1 | | 0112 | | 1 | | | | | | | | | |
| 1.1 | - | - | - | 45 | - | - | | Hanorer, Ill. | | Sheridan Gravel | - | 90 | - | All | _ | 1912 | 2 | 0 | - | - | - | | 5.00 |
| 1.5 | | = | Segrand (ve) | 30 15 | Ξ | = | 4 | Barr, Colo. | 1. | Lyons Stone | Very Dry | 90 | - | 4. | - | 4 | 2 | 0 | - | - | - | | - |
| | UNTREA | TEO | Street constituent | ,,, | 1 | | - | 0011,0010 | " | Agon's Grone | reg Dig | 70 | | Yes | _ | do | 2 | 0 | - | - | | | do |
| 2.1 | - | - | - | 65 | - | - | 1909 | Lines East | do | Craders Braval | - | 75.85 | _ | Portly | - | 1914 | 5 | 254 | - | _ | _ | | 1. |
| 22 | - | - | - | 25 | - | - | 1910 | 4. | 6 | Bravel | _ | 90 | - | 111 | _ | 1. | 4 | 80.0 | _ | _ | _ | | 1 |
| 2.3 | - | - | - | 35 | - | - | 1909 | Lines Wast | 10 | Surar Clay | - | 85.90 | - | 105 | _ | 4 | 5 | 944 | _ | _ | - | | 1 |
| 2.4 | 7140 04 | - | - Pueve | 15 | - | 1 - | 1910 | 4. | do | your stone | _ | 90 | - | 4 | - | do | 4 | 55.0 | - | - | - | 1 | do |
| 3/ | ZING OH | - | -BURNET | 45 | | 1 | 1010 | ./ | , | dulla 0 . 1 | | | -31 | | | | 2 | | | | | | |
| 3.2 | = | | = - | 30 | | 1. | | Hanover Ill. Blanding, Ill. | 1. | Sheridan Gravel | _ | 90 | | 411 | - | 1912 | 2 | 0 | - | - | - | - | 4 |
| 3.3 | - | | seasoned lyr | 15 | _ | 1. | 10 | Barr. Cals. | 1 | | May Dry | 90 | | 16 | _ | 4 | 2 | 0 | = | = | _ | | - |
| | ZINC CHE | | | | | | | | | | 2.2 | ,- | 7200 | | | | - | | . = | | | | 4 |
| 4.1 | - | - | _ | 175 | - | 0.5 Zinc 10 Creo. | | Lines East | 4 | Control Grave | _ | 75:85 | - | Auty | - | 1914 | 5 | 47 | Split | _ | _ | | 4 |
| 4.2 | _ | - | - | 224 | - | do | 1910 | 6 | 4 | Grave | - | 90 | - | 411 | _ | 4 | 4 | 0 | - | - | _ | | 4 |
| 4.4 | = | = | = | 30 | = | do | 1900 | Lines West | | Condens Bravel Count Clay Lyons Stone | | 90 | = | 4 | = | 4 | 5 | 3.3 | Split | _ | _ | | 4 |
| | CREOSO | TF-FIII | 1. CELL | | | | | | TABL | E.29-7 | AMAI | YAC) | 4 | | - | | | | | | 1 | | |
| 1.1 | _ | _ | | 85 | _ | 8.05 | 1909 | Lines East | 6.8.19 | condens Copyel | | 75.85 | | Partla | 1 | 19/4 | - | | | | 3 1 | | 1000 |
| 1.2 | _ | - | _ | 20 | _ | 1. | 1910 | 4 | 1. | Gravel | | 90 | | All | | 4 | 5 | 0 | _ | | | | 5.00 |
| 1.3 | _ | - | - | 14 | - | 4 | 1911 | 1. | 1. | do | _ | 75 | = | except into | | 1 | 3 | 0 | _ | | | | de |
| 1.4 | - | - | _ | 46 | - | 1. | 1909 | Line West | 1. | Anders Bravel | _ | 85.90 | - 1 | Yes | _ | 1 | 5 | 0 | | | | | 4. |
| 1.5 | - | - | _ | 60 | - | - | 1910 | 10 | 1. | | Very Dry | 90 | - | 10 | _ | de | 4 | 0 | | _ | | | 10 |

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| , | 2 | , | - | 5 | 6 | 7 | 8 | 9 | 10 | " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | W | R2 | 23 | 2. |
|------|----------|------------|-------------------|--------|------|----------|--------|--|--------------|-----------------------------|------|-------------------|--------|------------|-------|------|------|------|---------------------|-----------------|------|--|----|
| | CREOSO | TE-OF | EN TANK | | | | | | | * | | | | | | | | | | | | | |
| 2.1 | | | | 10 | | - | 1900 | Jensville, Ho | arne | | | | - | - | - | 1915 | 7.5 | 0 | - | | | All sound | - |
| 2.1 | - | _ | Various | 19 | 15.5 | - | 1907 | Janosville, Wis | C+NW | Gravel | Good | 90 | cut | Wolhoopter | Light | 1915 | 7.5 | 0 | - | Good | - | All sound | 26 |
| | SALTS | - BARS | CHALL H | ASSELA | MANN | | | | | 3.0 | (C) | | | | | | | | | | | | |
| 1.1 | - | - | - | 98 | - | - | 1902 | Brownend, Tex | 6.C. + S. F. | Sand | Poor | 60 | Cot | None | Heavy | 1911 | 6 | 100 | - | - | 4 | 80% removed 1905 | 1 |
| | UNTRE | EATED | | | | | | | | | | | | | A | | 4 | | | | | The state of the s | |
| 4/ | - | - | - | - | - | - | 1902 | Beaumont. Tex, | BETSF | Sond | Poor | 80 | Cut | None | Heavy | 1905 | 3.5 | 100 | - | - | - | All removed 1905 | 1 |
| .2 | - | Wenter Cot | Seesand 2314. | 25 | - | - | 1907 | Janesollo Wis. | C+NW. | Bravel | Good | 90 | 4 | 4 | Light | 1915 | 7.5 | 72 | Decay | Decay Y Ween | 6.9 | Remainder partly decayed Trailcut | 2 |
| 3 | - | - | Staumed 23 Mo | 25 | - | - | 4 | de | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7.5 | 100 | do | 2 | 6.5 | 4 | |
| 4 | - | - | Secret 35% | 20 | - | - | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 6 | 7.5 | 95 | 4 | 4 | 6.6 | 4 | |
| 5 | - | - | Suporded of Mindo | 62 | - | - | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | de | de | 7.5 | 98.4 | 4 | 4 | 6.5 | 4 | 1 |
| 6 | _ | - | _ | 7500 | _ | - | 1902 | Minnesoto | D+I.R. | - | - | - | - | - | - | 1944 | 10 | 100 | - | - | 7-8 | Track little wood 1902-8 Alloot 1912 | 1 |
| 7 | - | _ | - | 85 | _ | - | 1909 | Lines East | 08.79. | Contes Gravel | - | 75.85 | - | Portly | - | 4 | 5 | 79.7 | Rot | - | - | _ | 1 |
| 18 | _ | - | - | 10 | | - | 1910 | 2 | 4 | Bravel | - | 90 | - | 111 | - | 6 | 4 | 10 | de | - | - | - | 1 |
| 9 | _ | - | _ | 47 | - | - | 1909 | Lines West | 4 | Conten Organi | - | 85-90 | _ | 16 | - | 4 | 5 | 82.6 | 4 | - | - | _ | 1 |
| 10 | _ | - | _ | 30 | _ | - | 1910 | 4 | 4 | Lyons Stone | - | 90 | - | 16 | - | 4 | 4 | 15 | 6 | - | - | - , | 1 |
| 11 | _ | _ | _ | 2894 | _ | - | 1908 | Newport | G.N. | Gravel | Good | 90 | 816 | N.P. N. 21 | - | 4 | 6 | 51.9 | 4 | - | - | Includes Ane Sprice + Fir | - |
| 12 | 7×8×8' | - | - | 2966 | - | - | 1904 | Moholl. | 4 | Onder-Grand | 4 | 68 | Hisst. | M.P. No 58 | - | 4 | 10 | 34.6 | de | - | - | _ | П |
| 13 | _ | - | _ | 2168 | _ | _ | 1904-5 | Fortine | 4 | Gravel | 4 | 77.5 | 4 | None | - | 4 | 10 | 100 | Art split Broken | - | 7.4 | Includes Ane, Spruce, + Fir | ı |
| 14 | 7×8×8 | _ | _ | 2989 | _ | _ | 1908 | Judith Gop | 4 | 4 | 4 | 85 | 4 | Beddie on | 1 - | 4 | 6 | 15.3 | de | - | - | 4 | 1 |
| 15 | do | _ | _ | 2916 | - | _ | 4 | Rimmek | de | 16 | 4 | 90 | 8:6 | N.P. No 58 | - | 4 | 6 | 18.4 | 4 | - | - | 26 | 1 |
| | | CHLORIO | E - BURNE | | | | | | ** | | 1 | | | The second | | | | | | | | | 1 |
| -/ | _ | | _ | 85 | _ | 0.5 | 1909 | Lines East | C.B. +Q. | Conden Gravel Burnt Clay | _ | 25-86 | _ | Partly | - | 1914 | 5 | 1.3 | split | - | - | - | |
| 2 | _ | | | 21 | | 4 | 1910 | 4 | 4 | Gravel | _ | 90 | _ | All | - | 4 | 4 | 0 | - | - | - | _ | |
| .3 | | _ | _ | 45 | _ | 1 | 1909 | Lines West | 4 | Calin Brand | _ | 85.90 | - | Yes | - | 4 | 5 | 0 | _ | - | - | _ | 1 |
| -4 | | | _ | 61 | | 1 | 1910 | 4 | 4 | Lyans Stone | _ | 90 | _ | 4 | _ | 4 | 4 | 0 | - | - | - | _ | |
| 5 | | Triangular | | 1520 | | 0.45-0.5 | 1904 | The state of the s | 4 | Mortion Rock | _ | 85 | _ | _ | - | 1 | 10.3 | 61.0 | - | Mir | - | _ | 1 |
| 5.6 | _ | - | _ | 49 | | 0.41 | 1902 | | - | Sand | Poor | 60 | Cut | None | Heavy | 1912 | 9.5 | 0 | - | - | - | 15% decayed | |
| 5.7 | 73.8'x8' | | _ | 2848 | | 0.5 | 1903 | | G.N. | Conders Grand | Good | 60 | 16:52 | | _ | 1914 | 11 | 9.7 | Rot | - | - | Includes Pins, Spruce + Fir | 4 |
| | | | _ | 2580 | | 4 | 4 | Glenburn | 4 | 4 | 4 | 4 | do | 6 | _ | 4 | 11 | 2.2 | 4 | - | - | | I |
| -0 | - | - | | 2708 | | | 1904 | | 2 | Grava/ | 4 | 771 5/4 90 Nav | 4 | 60/d/s | _ | 4 | 10 | 65.3 | Ratisplin | - | 10.2 | Includas Pina, Spruce+ Fir | 1 |
| 5.9 | _ | | Paris de superior | | | 2510 | 1907 | | C.T.N.W | 2 | 4 | 90Na | Seren | Sellers | Light | 1913 | 1000 | 0 | _ | 6000 | | 8.0% Portly decoyed | 2 |
| 5.10 | - | - | Sessened 3-7140 | 125 | - | 0.510 | 1 | | | | | 1 | Cut | de | 4 | | 7.5 | 0 | _ | - | - | 8.0% 4 | |
| 7.// | - | - | Busined 10Mo | 125 | _ | 0.508 | 4 | 2 | 4 | 1 | 4 | 4 | 7. | 100 | 100 | 1 | 7.5 | 0 | _ | - | _ | 11.2% de | |
| 7.12 | - | - | Distributed 3-71% | | - | 4 | 1 | 2 | 4 | 1 | 4 | 1 | 4 | Halmoster | 1 | | | | _ | - | - | 38.5% 4 | |
| 5.13 | - | - | Saved 10Me | 13 | - | 0.308 | 4 | 1 | 4 | 4 | 1 | 16 | de | 1 4 | 1 2 | 1914 | 6.5 | 0 | | | 1 | 00.0% | |

| _ | | 2 | 3 | 14 | 5 | 6 | 7 | 8 | 9 | 10 | " | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 25 | 24 |
|---|------|-----------|------------|------------------|--------------|------|----------------------|---------|----------------|--------------|--------------|--------|-------|-------|---|-------------|---------|-----|-----|---------|-------|-------|--|--|
| 1 | ' | - | - | - | | - | | | | | | | | | | | | | | | 1 | | | |
| 1 | 20 1 | ZINC CHE | 03012 | ALLARDYO | | | 4 14 2 mc | | Begument Tex | ACAC E | Sand | Poor | 60 | cut | None | Heavy | 1911 | 9 | 100 | _ | _ | - | All removed 1911 | 11.00 |
| | 6.1 | _ | - | - | 50 | - | \$142inc socreo | 1902 | Desument IEX | B.C. 70.7. | Same | , | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 100 | | | | | | | 1 |
| | | ZINC CREC | 250TE- | CARD | | | | | / | 40-0 | Anders Games | | 75.85 | _ | Partly | | 1914 | 5 | 0 | _ | _ 1 | _ | | 5.00 |
| | 7.1 | - | - | - | 5/3 | - | 25 2 INC | 1909 | Lines East | 6.879. | Burnt Clay | | 1000 | | | | 100 | 4 | 0 | | | | | de |
| | 7.2 | - | - | - | 298 | - | do | 1910 | 1 | do | Bravel | - | 90 | - | All Freent | | 1 | 3 | 0 | | | | | 4 |
| | 7.3 | - | - | _ | 39 | - | 1. | 1900 | 1 | 4 | / | - | 75 | - | Engler South | | 100 | 30 | 100 | | | | | 4 |
| | 74 | - | - | _ | 284 | - | de | 1909 | Lines West | 10 | Bont Clay | - | 85.90 | - | 405 | = | " | 5 | 0 | | | | | 1. |
| | 7.5 | _ | - | _ | 211 | - | do | 1910 | do | do | Lyons Stone | - | 90 | | 4 | _ | " | 4 | 0 | | | | | The same of the sa |
| | 76 | _ | _ | - | 8 | _ | 05 21 me | 1911 | Bardwell, Wis | C.M. rst. P. | Bravel | - | 75 | - | A.S. Mall | - | 1912 | 1 | 0 | - | | - | | 6.00 |
| | 77 | | _ | _ | 51 | _ | agzine whory tree | 1902 | Beaumont, Tex. | BC+S.F. | Sand | Poor | 60 | Cut | None | Heavy | 4 | 10 | 90 | _ | - | - | 3 Coive - 90% removed 1909 | 1100 |
| | | ZINC AN | D CRUC | E OIL | | | 1 | | | | | | | | | | | | | | | | | 0.50 |
| | 8.1 | | _ | | 2 | _ | _ | 1909-11 | Baders 2// | 0.8.49 | Gravel | - | 75 | _ | - | Wer founds | 1917-12 | 1 | 0 | - | - | - | - | 5.00 |
| | 0., | TINC TA | NNIN - H | VELL HOUS | - | | 1000 | 1 | 1 | | 110000 | | | | | - | | | | | 100 | | | 1 |
| | 01 | | 1,,,,, | | 200 | _ | _ | 1891 | Attiburg Po. | F.W.+C | _ | _ | _ | _ | - | - | 1898 | 7 | 1 | Decey | Good. | - | | 2.00 |
| | 91 | - | 1000 | | 100 | | 0.58 | 1902 | | BC+S.F | sand | Bor | -60 | cot | Hone | Heavy | 1912 | 10 | 100 | _ | - | - | in 1911- 84% good 16% perhally deceyed | 11.00 |
| | 9.2 | _ | Water Henn | Seasoned Ilmo | 125 | | 0.428 | 1907 | Jenestille Wis | CHNW | Graral | Good | 90 | Seren | Sellers | Light | 1915 | 7.5 | 0 | _ | Good | _ | 14.4% Partly decoyed | 26.00 |
| | 93 | - | | Seasoned Ilmo | 2000 | - | 0440 | 4 | 4 | 4 | 4 | 4 | | \$727 | sellery | 1 | de | 4 | 0 | | 1 | _ | 20% % | 4 |
| | 9.4 | - x | 4 | Seasoned Ilmo | 50 | _ | | | 1 5 | 1 | 1 | 2 | 90 | 10 | 1. | 1 | 1 | 4 | 0 | | 1 | _ | | 4 |
| | 9.5 | - | 4 | Seasoned Ilmo | 38 | - | 0.408 | 1 | 1 | 2 | | | 90 | cut | Sellers | 4 | 2 | 4 | 0 | - | 4 | _ | 15:2% Portly decoyed | 4 |
| | 9.6 | - | .4 | 10 | 125 | - | 0.418 | 1 4 | - | | 1 | 4 | 90 | | de | 6 | 1 | de | 0 | _ | | _ | 6.0% % | 1 |
| | 9.7 | - | de | Sesoned Uno | 50 | _ | 0.436 | 4 | 4 | 4 | | 4 | 1965 | 4 | 5.00 | 1000 | 100 | , | 1.8 | - | 4 | | 62% do | 2 |
| | 9.8 | - | 4 | Seasoned Ilmo | 128 | - | 0.408 | 4 | 4 | 4 | 4 | - | 90 | 4 | Halayster | 1 4 | 1 | * | 0 | | 4 | | 20.0% do | 2 |
| | 9.9 | - | 16 | Seasoned Ilmo | 50 | - | 0436 | 4 | 4 | 4 | 4 | 4 | 90 | * | - | 4 | - | 4 | 23 | - | 4 | _ | 44.1% do | |
| | 9.10 | - | 16 | Seasoned iomo | 59 | - | 0.414 | 4 | 4 | 4 | 4 | 4 | 90 | 4 | 4 | 4 | 1 | 1 | 0 | _ | 4 | - | 4.5 % do | 4 |
| | 9.11 | _ | 10 | 4 | 55 | - | 0.404 | 4 | 4 | 4 | do | 4 | 90 | 2 | 40 | 4 | 4 | de | 1.8 | - | 4 | - | | 4 |
| | 9.12 | _ | 1. | 4 | 58 | - | 0.376 | 4 | 4 | 4 | 4 | 4 | 90 | do | 10 | 4 | di | 4 | 1.7 | - | 1 | - | 20.7% do | 6 |
| | 9.13 | _ | _ | - | 200 | - | - | 1892 | Koscisko Ind | Asgetom | 4 | - | - | - | - | - | 1905 | 13 | 100 | - | - | 8.84 | | 2940 |
| | 9.14 | _ | _ | Seasoned 6 mo | 85 | _ | _ | 1890 | Minnesoto | 0.7 I.R. | Grane Grane | Good | 80 | Cut | - | Light after | 1908 | 15 | 100 | - | - | 15 15 | Track relaid | 33.10 |
| | | EMLOCK IN | des Nos. | 11.5. 11.6, 11.7 | | 100 | | 1 | 1 | | | | | 4.0 | 1 | 10000 | | 1 | | | | | | |
| | | | | | | | | | TA. | BLE 3 | O-VARIO | 105 51 | ECL | E5_ | | | | | | | | | | |
| F | | COPPER S | UL PHAT | E-THILMA | NY | | | | | | | | 12.00 | 1 | | | | | | | | | | 1000 |
| | 61 | | | | $\Gamma - 1$ | _ | _ | 1870 | devoland ohio | - | _ | - | - | _ | - | - | 1875 | 5 | - | - | - | - | Favorable To 1875 | 2.90 |
| | 1.2 | | | | _ | _ | | 1877 | _ | Wabash | _ | - | - | - | - | - | 1882 | 5 | - | - | - | - | Unfavorable | 4. |
| | 13 | 150 | | 120 | | _ | _ | 1878 | _ | 1 | _ | _ | - | - | - | - | 4 | 4 | - | _ | - | - | 4 | do |
| | 100 | 7 | | 2.0 | | | | 1879 | | MIRTO | _ | _ | _ | _ | - | - | 4 | 3 | - | _ | - | - | 1. | 4 |
| | 1.4 | | | 1000 | _ | _ | | 1. | _ | LS. tres | _ | _ | _ | | - | - | 4 | 3 | - | _ | - | - | do | 1. |
| | 12 | | _ | - | | | | - | | | N. Park | | | 1 | | | 1 | | | | | | | |
| 1 | | CREOSOTE | | 1000 | | 200 | | 1801. | white willen | N.J.C | _ | _ | - | _ | - | _ | 1913 | 6 | 100 | Rot | - | _ | Most removed 1907 babace 1909 | 15.00 |
| | 2./ | _ | - | _ | 6501 | - | | 1896 | Cent. O.V | | | | | | | | 1909 | 13 | 32 | Railcut | - | _ | | 10 |
| | 2.2 | _ | _ | _ | 76100 | _ | _ | 155 000 | | N.P. | - | 100 | | | | | 1914 | 7 | 0 | | - | _ | Arfeet Presentint - no results | 1.00 |
| | 2.3 | - | - | - | 94694 | - | 7 | 1907 | St. Paul and | 11. 7. | 1 | _ | | | | | | 1 | 1 | | | | | |
| - | | MERCURIC | CHLORI | DE - | (PRESS | URE) | | | | 100 | | 10000 | | | | | | | | | 1_ | | Too costly | 2.40 |
| | 3.1 | - | - | - | - | - | - | 1846 | East Mass. | - | - | - | - | - | - | - | - | - | 1- | _ | 1 | _ | | |
| 1 | | MERCURIC | CHLOR | DE KYAN | T | | | | | 13000 | | | | | 12.0 | | | | | 1000 | | | Failure | 4 |
| | 4.1 | _ | - | - | - | - | - | 1842 | 3 | 8,0 | - | - | - | - | - | - | - | - | 1- | - | - | - | | |
| - | 4.2 | - | - | _ | - | - | - | 1845 | - | ald Colony | - | - | - | - | - | - | - | - | - | - | 1- | - | Did not Pay | 1 |
| | 43 | _ | _ | _ | - | - | - | 1847 | _ | P.TW. | - | - | - | - | - | - | - | - | - | - | 1- | - | do | 100 |
| | | | 1000 | _ | _ | _ | - | 1851 | - | R.TR. | - | - | - | - | - | - | - | - | - | - | 1- | - | Unsucessful Wood Preserved - Stringth | 1.00 |
| | 4.4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4.4 | DIL CRU | DE | | | 100 | | | | | | | 1 | | | | 100 | | | | 1 | 1 | | 3.00 |

| | | TAR | | | | | | | | | | | | | | | | | | | | | | | 1 |
|-----|------|---|---|---------|----------|---|-----|-------|----------------|-----------|--------|------|----------|------|--------|---|-------|------|------|-------|------|------|--|-------|---|
| - 1 | 6.1 | -77.11 | _ | _ | - | _ | _ | 1852 | _ | RTR. | _ | _ | _ | _ | | _ | 1908 | _ | _ | _ | _ | _ | Not preserved - dry rot | 1.00 | |
| | | TREATED - PROCESS NOT GIVEN | | | | | | | | | | 24 | | | | | | | | | | | | | |
| | 7.1 | *************************************** | | | 111816 | _ | _ | 1899 | | CHEZ | _ | _ | _ | _ | _ | _ | 1909 | 10 | 9.5 | Decay | _ | _ | | 33.00 | |
| | 7.2 | | | | 1647605 | | _ | wm-00 | | 4 | | | _ | | _ | _ | | 0-10 | 41 | 1. | _ | _ | | 10 | |
| | 1.2 | VULCANIZED - HEAT AND PRESSURE | | | | | | | | | | | | | | | | | | | | | | | |
| | 81 | - CECHINE | | | | | _ | 1883 | New York | Maghathe | | | _ | _ | _ | _ | 1895 | 12 | _ | | Bood | _ | Untreated life Syrs | 29.60 | |
| | 0 | ZINC CH | ORIDE. | BURNET | <u> </u> | | | 1 | | 2. | | 17 | | | | | | | | | | 199 | | | |
| | 81 | Zinc on | 1 | Donne | 450000 | | | 1900 | | CAA | 1 | | | | | | 1908 | 8 | _ | | _ | _ | Some decayed in 3-4 yrs | 1.00 | |
| | 92 | | | | 500 000 | _ | 0.5 | 1905 | | T.S.L.+W | | | | | | _ | do | 3 | | _ | _ | _ | No results | do | 1 |
| | 23 | | Triangular | | 28 23 | | 0.5 | | Colombia Falls | | Grave/ | 6004 | 77.57014 | Miss | 20/20 | _ | 1914 | 10 | 66.9 | _ | _ | grt- | Includes 871 Sprace - 643 Fir ramarack | 40.00 | |
| | 9.4 | | manga. | | 29/6 | | _ | | Moraria | 1. | 4 | 4 | ,,, | 8.6 | Goldie | | 4 | 11 | 88.4 | _ | _ | 34 | 105 PINS - 18 10 Mario 24 | do | |
| | 9.5 | | | | 305 107 | 1 | | 1867 | | RYR | | | /- | 3.0 | | | | _ | _ | | _ | 2.4 | out before 1870-Partial success | 100 | |
| | 4.5 | ZINC CA | FASAT | _ | 303 101 | | _ | 1 | _ | | | - | | | | | | | | | | | | 7.00 | |
| | | ZINC CA | 20301 | | | | _ | 1908 | | CTN.W. | | | | | _ | _ | 1908 | _ | _ | | _ | | No results | 1.00 | |
| 1 | 10.1 | ZINC TANNIN - WELL HOUSE | | | | | | | - | 6.7 m. m. | 1 | | | | | | ,,,,, | - | _ | | | - | | | |
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DISCUSSION.

MR. M. K. TRUMBULL: Mr. Chairman, I think we will all agree that this is a masterly contribution, especially inasmuch as it is the first convention at which we have had service tests presented. I refer to this report and the others pertaining to paving blocks, timber, piling, etc. In my opinion the resolution passed one year ago to have committees prepare service tests has been amply justified. I would like to ask, in view of the recommendations and the necessity for the accumulation from year to year of records with service tests as to what plan or policy has been mapped out by the Executive Committee for the perpetuation of this work.

MR. L. B. MOSES: Mr. President, Mr. Card asks me to suggest that the most satisfactory way to continue those records, which are, of course, invaluable to us, would be to request the Forest Service to keep them for us. They would then be available for the information and guidance of the members of this Association. We would be assured, in the first place, that there would be no selfish interest attempting to serve its own ends, besides which the records would certainly carry much more weight with all who have occasion to use them. If that is feasible and the Forest Service people are willing to undertake the work I should certainly like to see it handled in that way.

THE PRESIDENT: Mr. Trumbull, my personal opinion is that this should be a standing committee and it should be continued from year to year. Of course, the present Executive Committee cannot outline the policies of the next Executive Committee, but that has been my thought in the matter.

MR. M. K. TRUMBULL: The question in my mind is as to whether it is desirable for the Association to act on this or to leave it in the hands of the incoming officers and Executive Committee.

THE PRESIDENT: Has anyone anything to say on that point? What is your pleasure? Do you want to leave it to the Executive Committee or does this Association want to instruct the Executive Committee to continue the Service Tests Committees as standing committees, not necessarily the same men?

MR. M. K. TRUMBULL: Mr. President, before we get down to the actual determination of our policy in this respect although appreciating Mr. Moses' suggestion, I would like to ask Mr. Winslow a question as to whether he finds that the railroads are liberal in their response to the requests for information as coming from the Forest Products Laboratory, or whether it places the Committee in a better position to secure that information if there are a few railroad men on the Committee.

MR. C. P. WINSLOW: First, in response to the question whether the railroads are liberal in responding to the requests for information of this sort, I will say yes. The assistance and co-operation they have given us in writing for information of that sort has been very gratifying. My personal feeling is that it would be an advantage to any committee of this sort to have railroad men as members. Of course, in correspondence from the Laboratory requesting most of this information that I have had to handle it has come as Laboratory correspondence rather than as individual correspondence, and I cannot say what the results might be on another basis. I only know that so far handling it as I have done in corresponding with these railroads we have met with very gratifying assistance from them and their co-operation in that is very highly appreciated and should have been acknowledged in the presentation of the report.

THE PRESIDENT: When the report of the Committee on Service Tests of Wood Block Paving was submitted they recommended that the Committee be continued and there was a motion to that effect. Now, I am ready to receive a motion to continue this Committee, and to make it a permanent standing committee if you so elect.

MR. M. K. TRUMBULL: Mr. President, I hardly think we are quite ready for that motion to be put. We should consider the fact that the American Railway Engineering Association has done a considerable amount of work in this line. We should have an expression from some of the railroad men present. It is unfortunate that Mr. Stimson and some of the others have already left. We should secure expressions from as many as possible as to the desirability of merging the work of this Committee with that of the American Railway Engineering Association, or to adopt some policy, as between the two associations, which will give the best results to all that are interested in the requirements.

THE PRESIDENT: Gentlemen, what is your pleasure?

MR. E. T. HOWSON: Mr. President, I would like to support the ideas just advanced.

There is so much to be done by all the technical associations that any overlapping means that some other work will not be done. This Association can gather certain statistics on service ties better than the other association. The other association can gather statistics from certain other sources perhaps better than this Association, because of its more direct affiliation with the railroads. For that reason it seems to me that a joint committee of the two associations could combine the information secured by each into a more comprehensive report than will be available otherwise. Each association would have the benefit of it, there would be no duplication and corresponding disagreement in minor details and we would get all the benefit of the individual reports.

I would, therefore, suggest that the Executive Committee consider the advisability of suggesting to the American Railway Engineering Association's Board of Directors the appointment of a joint committee to study the service tests of ties as this matter applies to both associations.

THE PRESIDENT: Mr. Howson, if you will allow me to suggest, we certainly ought to accept the report of the Committee. Can you not make a motion to that effect? Then recommend that the incoming Executive Committee confer with the American Railway Engineering Association and so forth?

MR. GEO. E. REX: Mr. President, I would like to move that the report of the Committee be accepted, and if it is in order, I would also like to move that the incoming Executive Committee be instructed to continue Mr. Winslow as Chairman of this Committee as a standing committee.

THE PRESIDENT: You are in order.

MR. GEO. E. REX: I think this has been a magnificent work, one that needs the study of those who have the time and technical knowledge to put into it. I think that Mr. Winslow deserves great credit and I would like to see him continue as Chairman.

MR. M. K. TRUMBULL: I second that motion, Mr. President.

THE PRESIDENT: The motion is that we accept the report and continue Mr. Winslow as Chairman of that Committee and that the Executive Committee confer with a like committee of the American Railway Engineerng Association, take it up with the Board of Directors, with the view of having a joint committee appointed. Are you ready for the question? Those in favor say Aye, those opposed No. The Ayes have it.

