PROVO BENCH CANAL & IRRIGATION COMPANY.

Measurements of Depth of Soil.

(1) Gravelly Loam.

| No. | Depth Ft. | Sub-Soil | Depth of Soil | Name of Farm. |
|---|---|---|---|---|
| 1 | 3.5 | ---- | ---- | 300 ft. N. of Orem Sta. |
| 2 | 3.1 | Loose gravel | 2.3 | Mark Downs |
| 3 | 3.7 | Loose Gravel | 1.5 | Alvin Loverage. |
| 4 | 3.1 | Loose Gravel | 1.0 | E.A. Nowell |
| 6 | 4.0 | Sand & Gravel | 0.5 | J. Astor |
| 7 | 4.1 | Sand | 2.6 | Robt. J. Wright. |
| 8 | 2.7 | Gravel | 1.0 | Martin Ditmore |
| 11 | 3.2 | Gravel | 2.0 | A.G.Keetch |
| 12 | 3.3 | Loose Gravel | 1.8 | W.P.Kirk |
| 17 | 3.5 | Gravel | 1.5 | Jos. D.Hadley. |
| 26 | 2.5 | Loose Gravel | 1.4 | Mary Ann Draper. |
| 27 | 2.0 | ---------- | ---- | Selena Ashton. |
| 28 | 2.3 | Gravel | 1.0 | John H.Stratton. |
| 29 | 6.0 | Gravel | 3.2 | N.E.Brown. |
| 30 | 3.4 | Sand & Gravel | 1.5 | E.D.Partridge/ |
| 31 | 3.2 | Sand & Gravel | 1.3 | Irving Jones. |
| 32 | 2.0 | Gravel | 1.3 | James A. Loveless Jr. |
| 33 | 2.0 | Gravel | 1.0 | Thomas Farley. |
| 34 | 1.6 | Gravel- | ---- | John D. Dixon. |
| 35 | 1.5 | Gravel | 1.0 | Canal Bank J.F.Duffin. |
| 36 | 3.0 | Gravel | 2.0 | John S.Park |
| 37 | 2.0 | Gravel | 1.0 | Christina Jacobson. |
| 38 | 3.0 | Gravel | 1.5 | Christina Kofford. |
| 39 | 2.5 | Gravel | 1.5 | North Union Canal Bank. |
| 43 | 1.0 | ------ | ----- | Emil Hurler |
| 44 | 1.8 | ------ | ----- | John T. Pyne. |
| 45 | 2.1 | Gravel | 2.0 | John T.Pyne. |
| 46 | 2.6 | Gravel | 2.4 | Salisbury,near Snow Sta. |
| erages. | 2.81 | | 1.58 | |

(2) Sandy Loam.

| | | | | |
|---|---|---|---|---|
| 5 | 4.0 | Loose Gravel | 2.0 | Thomas Jarman. |
| 9 | 3.0 | Gravel & Clay | 1.0 | Arthur Marrott |
| 10 | 2.9 | Gravel | 2.0 | Carl Hansen/ |
| 13 | 4.0 | Loose Sand | 1.0 | Alonzo Hooley |
| 14 | 4.0 | Gravel & Sand | 1.0 | Ed.A.Harris. |
| 15 | 3.7 | Gravel | 2.5 | Anders G.Johnson. |
| 16 | 4.0 | Pea Gravel | 2.7 | Alfred Keetch/ |
| 23 | 4.2 | Sand | 1.3 | Melvin Smith |
| 24 | 4.4 | Sand & Gravel | 1.2 | Allan Morton. |
| 0 | 3.0 | Gravel | 2.4 | Russell K.Homer |
| 1 | 1.9 | -------- | ------- | Don C.Clayton. |
| | 4.5 | -------- | ------- | Cellar of John T.Pyne. |
| | 4.0 | Sand | 2.0 | Samuel Green. |
| | 3.67 | | 1.72 | |

PROVO BENCH CANAL & IRRIGATION COMPANY.

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|---|---|---|---|---|
| 1 | 3.5 | ---- | ---- | 300 ft. N. of Orem Sta. |
| 2 | 3.1 | Loose gravel | 2.3 | Mark Downs |
| 3 | 3.7 | Loose Gravel | 1.5 | Alvin Loverage. |
| 4 | 3.1 | Loose Gravel | 1.0 | E.A. Newell |
| 6 | 4.0 | Sand & Gravel | 0.5 | J. Astor |
| 7 | 4.1 | Sand | 2.6 | Robt. J. Wright. |
| 8 | 2.7 | Gravel | 1.0 | Martin Ditmore |
| 11 | 3.2 | Gravel | 2.0 | A.G.Keetch |
| 12 | 3.3 | Loose Gravel | 1.8 | W.P.Kirk |
| 17 | 3.5 | Gravel | 1.5 | Jos. D.Wadley. |
| 26 | 2.5 | Loose Gravel | 1.4 | Mary Ann Draper. |
| 27 | 2.0 | ---------- | ---- | Selena Ashton. |
| 28 | 2.3 | Gravel | 1.0 | John H.Stratton. |
| 29 | 6.0 | Gravel | 3.2 | N.E.Brown. |
| 30 | 3.4 | Sand & Gravel | 1.5 | E.D.Partridge/ |
| 31 | 3.2 | Sand & Gravel | 1.3 | Irving Jones. |
| 32 | 2.0 | Gravel | 1.3 | James A. Loveless Jr. |
| 33 | 2.0 | Gravel | 1.0 | Thomas Farley. |
| 34 | 1.6 | ~~Gravel~~ | ---- | John D. Dixon. |
| 35 | 1.5 | Gravel | 1.0 | Canal Bank J.F.Duffin. |
| 36 | 3.0 | Gravel | 2.0 | John S.Park |
| 37 | 2.0 | Gravel | 1.0 | Christina Jacobson. |
| 38 | 3.0 | Gravel | 1.5 | Christina Kofford. |
| 39 | 2.5 | Gravel | 1.5 | North Union Canal Bank. |
| 43 | 1.0 | ------ | ----- | Emil Hurler |
| 44 | 1.8 | ------ | ----- | John T. Pyne. |
| 45 | 2.1 | Gravel | 2.0 | John T.Pyne. |
| 46 | 2.6 | Gravel | 2.4 | Salisbury,near Snow Sta. |
| Averages. | 2.81 | | 1.58 | |

(2) Sandy Loam.

| | | | | |
|---|---|---|---|---|
| 5 | 4.0 | Loose Gravel | 2.0 | Thomas Jarman. |
| 9 | 3.0 | Gravel & Clay | 1.0 | Arthur Marrott |
| 10 | 2.9 | Gravel | 2.0 | Carl Hansen/ |
| 13 | 4.0 | Loose Sand | 1.0 | Alonzo Hooley |
| 14 | 4.0 | Gravel & Sand | 1.0 | Ed.A.Harris. |
| 15 | 3.7 | Gravel | 2.5 | Anders G.Johnson. |
| 16 | 4.0 | Pea Gravel | 2.7 | Alfred Keetch/ |
| 23 | 4.2 | Sand | 1.3 | Melvin Smith |
| 24 | 4.4 | Sand & Gravel | 1.2 | Allan Morton. |
| 40 | 3.0 | Gravel | 2.4 | Russell K.Homer |
| 41 | 1.9 | -------- | ------- | Don C.Clayton. |
| 42 | 4.5 | -------- | ------- | Cellar of John T.Pyne. |
| 48 | 4.0 | Sand | 2.0 | Samuel Green. |
| Averages | 3.87 | | 1.72 | |

Depth Of Soil (Continued)

(3) Clay Loam.

| No. | Depth | Sub-Soil | Depth Of Soil | Name of Farm. |
|---|---|---|---|---|
| 18 | 3.2 | --------- | ------ | George A.Shoal |
| 19 | 4.3 | Clay & Sand | 3.3 | Wm.C.Brown. |
| 20 | 3.5 | Gravel | 2.3 | E.A.Cobbley. |
| 21 | 3.3 | Gravel & Sand | 1.3 | Carl J.Johnson. |
| 22 | 3.4 | ---------- | ------ | A.B.Walker. |
| | 3.54 | | 2.63 | |

PROVO BENCH CANAL & IRRIGATION COMPANY.

Areas of Different soils irrigated by the system.

| Section | Total Area Irrigated. | Area of Gravelly Loam | Area of Sandy Loam | Area of Clay Loam. |
|---|---|---|---|---|
| T. 5 S. R. 2 E. | | | | |
| 27 | 52.04 | 25.04 | | 27.00 |
| 28 | 27.00 | 6.00 | | 21.00 |
| 33 | 108.66 | 11.56 | 11.65 | 85.45 |
| 34 | 441.84 | 87.62 | 9.00 | 345.22 |
| T.6 S.R 2 E. | | | | |
| 2 | 26.38 | 13.60 | | 12.78 |
| 3 | 469.76 | 36.00 | 120.75 | 304.01 |
| 4 | 247.37 | 91.77 | 155.60 | |
| 9 | 94.50 | 89.50 | 5.00 | |
| 10 | 278.10 | 152.95 | 124.50 | |
| 11 | 16.62 | 16.62 | | |
| 13 | 31.43 | 31.43 | | |
| 14 | 322.48 | 322.48 | | |
| 15 | 416.96 | 216.96 | 200.00 | |
| 16 | 53.00 | 53.00 | | |
| 21 | 6.00 | 6.00 | | |
| 22 | 350.22 | 219.22 | 71.00 | |
| 23 | 521.96 | 511.96 | 10.00 | |
| 24 | 126.84 | 126.84 | | |
| 25 | 48.71 | 48.71 | | |
| 26 | 533.88 | 500.88 | 33.00 | |
| 27 | 158.78 | 158.78 | | |
| Totals | 4332.53 | 2787.92 | 749.40 | 794.46 |
| % | 100.0 | 64.4 | 17.3 | 18.3 |

PROVO BENCH CANAL & IRRIGATION COMPANY.

Irrigation of Alfalfa Field of John Stratton, Aug.1,1916.

Measurements of discharge made over 4-ft suppressed weir.

8:23 a.m. head= 7 ins. Q= 6.42 Sec.Ft.
11:50 a.m. " 6 3/4 in. Q= 6.06 Sec.Ft.
Average discharge 6.24 Sec.ft.

Time 8:40 ti 11:40 = 3 hours.
Acre-inches of water=18.72

Length of tract= 546 feet
Width of tract 107 and 277 feet.
Also a detached tract 30 x 400 feet.
Total Area = 2.68 acres.

Depth of water applied = 7 inches= 0.583 Ft.

Ex 195