

Reply To: 2470

Date: Dec. 19, 1989

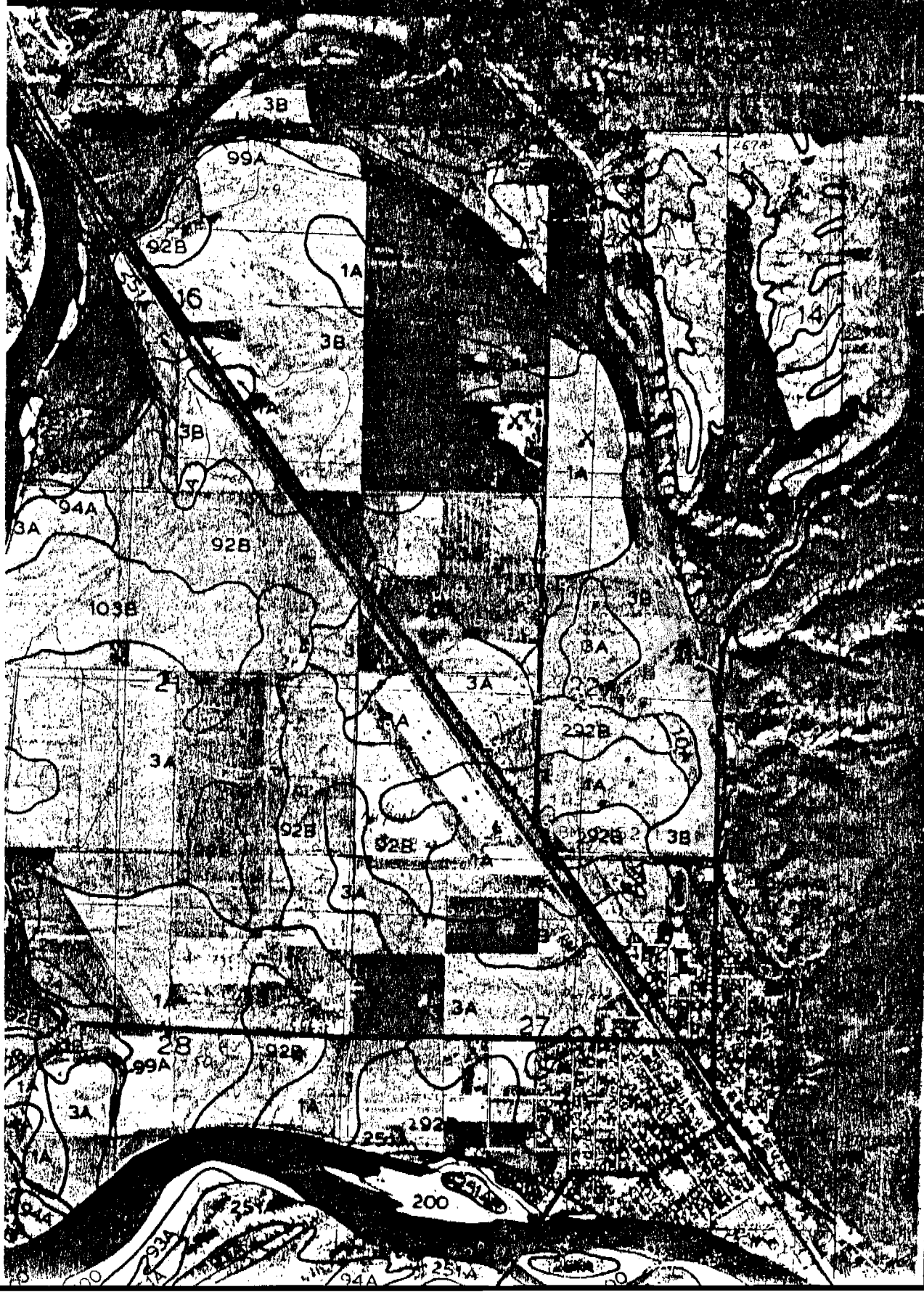
Subject: Plains Seed Orchard Site

To: Forest Supervisor, Lolo National Forest

On Friday, December 15th., the Regional Geneticist, Regional Selective Breeding Specialist and the Montana Tree Improvement Technician met with the Lolo National Forest Soils Scientist and members of the Plains/Thompson Falls District silvicultural staff to inspect a potential seed orchard site near the Plains Ranger Station. The site, an agricultural field just north of the Plains Hospital, looks very promising and we are requesting that additional soil and weather information be obtained. The soil data should include a detailed soils map and a nutrient analysis for each soil type. The weather information should include ten year highs and lows, the average number of frost free days and a water budget. Tree Improvement money is available for this work if needed.

The District is also urged to check on the availability of other agricultural type land in the vicinity of Plains. Of particular interest are sites near the confluence of the Flathead and Clark Fork Rivers south of Paradise.

December 19, 1989



Soil Survey Sanders and parts of Lincoln and Flathead Counties...

8-31-89

TABLE D.--CLASSIFICATION OF THE SOILS

| Soil name | Family or higher taxonomic class | |
|---------------------|---|---------------------|
| Beeskove | Loamy-skeletal, mixed, frigid Typic Eutrochrepts | Beeskove |
| Belton | Fine, illitic, frigid Typic Natriferolls | Belton |
| Bigarm | Loamy-skeletal, mixed, frigid Typic Haploxerolls | Bigarm |
| Biglake | Sandy-skeletal, mixed, frigid Typic Haploxerolls | Biglake |
| 104 Bohnly | Fine-silty, mixed, frigid Fluvaquentic Haplaquolls | Bohnly |
| Bolack | Fine, mixed, frigid Typic Haplaquolls | Bolack |
| Bolack Variant | Fine, mixed Typic Haplaquepts | Bolack Variant |
| Bowlake | Fine, mixed, frigid Typic Argixerolls | Bowlake |
| Castner | Loamy-skeletal, mixed Lithic Haploborolls | Castner |
| Connah Variant | | Connah Variant |
| Courville | Loamy-skeletal, mixed, frigid Andic Dystric Eutrochrepts | Courville |
| Doglake | | Doglake |
| Dryfork | Coarse-silty, mixed, frigid Xerollic Camborthids | Dryfork |
| Eaglewing | Fine-loamy, mixed, frigid Typic Ustochrepts | Eaglewing |
| Felan | Loamy-skeletal, mixed Andic Cryochrepts | Felan |
| Finleypoint | Loamy-skeletal, mixed Udic Haploborolls | Finleypoint |
| Flott | Loamy-skeletal, mixed Udic Haploborolls | Flott |
| 3A48 Gird | Coarse-silty, mixed, frigid Typic Haploxerolls | Gird |
| 1A Grantsdale | Coarse-silty over sandy or sandy-skeletal, mixed, frigid Calciorthidic Haploxerolls | Grantsdale |
| Half Moon | Fine-silty, mixed Typic Eutroboralfs | Half Moon |
| Halfmoon | Fine-silty, mixed Typic Eutroboralfs | Halfmoon |
| Hewolf | | Hewolf |
| Holloway | Loamy-skeletal, mixed Andic Cryochrepts | Holloway |
| Horseplains | Sandy, mixed, frigid Typic Xerofluvents | Horseplains |
| Icene Variant | Fine-silty, mixed, frigid, nonacid Xeric Torrifuvents | Icene Variant |
| Irvine | Fine, illitic (calcareous), frigid Typic Xerorthents | Irvine |
| Jocko | Sandy-skeletal, mixed Udic Haploborolls | Jocko |
| Kerrdam | Coarse-silty, mixed, frigid Xerollic Camborthids | Kerrdam |
| Lamoose | Fine-loamy over sandy or sandy-skeletal, mixed (calcareous), frigid Typic Haplaquolls | Lamoose |
| Lonepine | Fine-silty, mixed, frigid Xerollic Camborthids | Lonepine |
| Mark Lepass | Fine, mixed, frigid Natric Camborthids | Mark Lepass |
| 2A23 McCollum | Coarse-loamy, mixed, frigid Typic Haploxerolls | McCollum |
| McDonald | Fine, illitic Boralfic Argixerolls | McDonald |
| Minesinger | Clayey-skeletal, mixed, frigid Aridic Argixerolls | Minesinger |
| Minesinger, Variant | Clayey-skeletal, mixed Typic Haploxeralfs | Minesinger, Variant |
| Mitten | Loamy-skeletal, mixed, frigid Andic Dystric Eutrochrepts | Mitten |
| Moiese | Sandy-skeletal, mixed, frigid Calciorthidic Haploxerolls | Moiese |
| Niarada | Loamy-skeletal, mixed, frigid Calcic Haploxerolls | Niarada |
| Petty | Loamy-skeletal, mixed Andic Cryochrepts | Petty |
| Phillcher | Loamy-skeletal, mixed Andic Cryochrepts | Phillcher |
| Remount | | Remount |
| Repp | Loamy-skeletal, mixed, frigid Typic Ustochrepts | Repp |
| Revais | Coarse-silty, mixed, nonacid, frigid Typic Xerofluvents | Revais |
| Round Butte | Fine, mixed Borollic Natrargids | Round Butte |
| Rumblecreek | Loamy-skeletal, mixed Typic Eutroboralfs | Rumblecreek |
| Sacheen | Mixed, frigid Typic Xeropsamments | Sacheen |
| Sacheen, dry | Mixed, frigid Typic Xeropsamments | Sacheen, dry |
| Sharrott | Loamy-skeletal, mixed, frigid Lithic Ustochrepts | Sharrott |
| Touin | Loamy-skeletal, mixed, frigid Dystric Eutrochrepts | |

The symbol < means less than; > means more than. Absence of an entry indicates that data were not estimated)

| Soil name and map symbol | Depth In | USDA texture | Classification | | Frag- ments > 3 inches Ect | Percentage passing sieve number | | | | Liquid limit Ect | Plas- ticity index |
|--------------------------|-------------|---|----------------------|---------------|--|------------------------------------|--------|--------|-------|------------------------|--------------------------|
| | | | Unified | AASHTO | | 4 | 10 | 40 | 200 | | |
| 1A Grantsdale | 0-7 | Loam | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 75-85 | 20-25 | 5-10 |
| | 7-21 | Loam, very fine sandy loam, silt loam. | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 75-85 | 20-25 | 5-10 |
| | 21-27 | Loam, very fine sandy loam, silt loam. | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 70-85 | 20-25 | 5-10 |
| | 27-60 | Very gravelly loamy sand, very gravelly sand, extremely cobbly loamy sand. | GP, SP, GP-GM, SP-SM | A-1 | 10-30 | 35-65 | 25-55 | 15-40 | 0-10 | --- | NP |
| 2B Moiese | 0-7 | Gravelly loam | GM, GM-GC, SM, SM-SC | A-4 | 0-10 | 65-80 | 60-75 | 50-60 | 35-45 | 20-30 | NP-10 |
| | 7-11 | Gravelly loam, very gravelly sandy loam, sandy loam. | SM, SM-SC, Gs, GM-GC | A-2, A-4, A-1 | 0-25 | 40-100 | 35-95 | 25-80 | 15-50 | 20-30 | NP-10 |
| | 11-16 | Very gravelly sandy loam. | GM, SM | A-1 | 0-25 | 40-60 | 35-50 | 20-35 | 10-20 | 20-25 | NP-5 |
| | 16-60 | Very gravelly loamy sand, extremely gravelly sand, very gravelly loamy coarse sand. | GP, GP-GM | A-1 | 0-30 | 30-45 | 20-35 | 10-25 | 0-10 | --- | NP |
| 3A, 3B Gird | 0-9 | Silt loam | ML | A-4 | 0 | 100 | 100 | 90-100 | 70-90 | 20-25 | NP-5 |
| | 9-48 | Silt loam | ML | A-4 | 0 | 100 | 100 | 95-100 | 75-95 | 20-25 | NP-5 |
| | 48-60 | Silt loam, very fine sandy loam. | ML | A-4 | 0 | 100 | 100 | 95-100 | 75-80 | 20-25 | NP-5 |
| 4A. Aeric haplaquepts | | | | | | | | | | | |
| 5B Whiteth | 0-7 | Silt loam | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 80-90 | 25-30 | 5-10 |
| | 7-13 | Silty clay loam | CL | A-6 | 0 | 100 | 100 | 95-100 | 90-95 | 30-40 | 10-20 |
| | 13-32 | Silt loam | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 80-90 | 20-30 | 5-10 |
| | 32-60 | Silt loam | CL-ML | A-4 | 0 | 100 | 100 | 90-100 | 70-90 | 20-30 | 5-10 |
| 6B, 6E Sacheen | 0-8 | Loamy fine sand | SM | A-2, A-4 | 0 | 95-100 | 90-100 | 70-95 | 25-40 | --- | NP |
| | 8-60 | Loamy fine sand, fine sand. | SM | A-2, A-4 | 0 | 95-100 | 90-100 | 70-95 | 20-40 | --- | NP |
| 7B Jocko | 0-8 | Gravelly loam | GM-GC, CL-ML, SM-SC | A-4 | 0-15 | 65-80 | 60-75 | 45-60 | 40-55 | 20-30 | 5-10 |
| | 8-15 | Very gravelly loam, very gravelly sandy loam, very cobbly loam | GM | A-2, A-1 | 15-30 | 40-65 | 35-60 | 25-50 | 15-35 | 15-25 | NP-5 |

TABLE H.--ENGINEERING INDEX PROPERTIES--Continued

| Soil name and map symbol | Depth | USDA texture | Classification | | Fragments > 3 inches Ect | Percentage passing sieve number | | | | Liquid limit Ect | Plasticity index |
|--|-------|--|----------------------|---------------|--------------------------|---------------------------------|--------|--------|--------|------------------|------------------|
| | | | Unified | AASHTO | | 4 | 10 | 40 | 200 | | |
| 8A Henolf | In | | | | | | | | | | |
| | 0-7 | Gravelly loam | SM-SC, CL-ML | A-4 | 0-10 | 60-80 | 55-75 | 50-70 | 35-60 | 20-25 | NP-5 |
| | 7-13 | Very gravelly sandy loam, very gravelly fine sandy loam. | SM-SC, GM-GC | A-2 | 0-15 | 40-60 | 30-50 | 20-45 | 10-30 | 20-25 | NP-5 |
| | 13-60 | Extremely gravelly sand, extremely gravelly loamy sand. | GP, GM-GC, SP, SM-SC | A-1, A-2 | 0-15 | 20-45 | 15-40 | 10-30 | 0-10 | 15-20 | NP-5 |
| 9A Lamoose | 0-7 | Silt loam | CL-ML, CL | A-4, A-6 | 0 | 80-100 | 75-100 | 70-95 | 55-90 | 25-35 | 5-15 |
| | 7-20 | Loam, silt loam, gravelly loam. | GM-GC, GC, CL-ML, CL | A-4, A-6, A-2 | 0 | 55-100 | 50-100 | 45-95 | 30-85 | 25-35 | 5-15 |
| | 20-60 | Very gravelly loamy sand, very gravelly sand, extremely gravelly sand. | GM, GP-GM, GP, SP-SM | A-1 | 0-20 | 25-55 | 20-50 | 10-40 | 0-15 | --- | NP |
| 100*: Rock outcrop. Rubble land. | | | | | | | | | | | |
| 10A Bohaly | 0-8 | Silt loam | CL-ML | A-4 | 0 | 100 | 100 | 95-100 | 75-95 | 20-30 | 5-10 |
| | 8-13 | Silt loam | CL-ML | A-4 | 0 | 100 | 100 | 95-100 | 85-95 | 25-30 | 5-10 |
| | 13-60 | Silt loam, silty clay loam. | CL-ML, CL | A-4, A-6 | 0 | 100 | 100 | 95-100 | 75-95 | 25-35 | 5-15 |
| 11A Bolack | 0-7 | Silt loam | ML | A-4 | 0 | 100 | 100 | 90-100 | 70-90 | 20-25 | NP-5 |
| | 7-10 | Silty clay, silty clay loam. | CL | A-6, A-7 | 0 | 100 | 100 | 95-100 | 85-95 | 30-45 | 10-20 |
| | 10-16 | Clay, silty clay | CL, CH | A-7, A-6 | 0 | 100 | 100 | 90-100 | 85-95 | 35-60 | 15-40 |
| | 16-60 | Gravelly clay, clay, silty clay. | CL, CH | A-7, A-6 | 0 | 70-95 | 60-90 | 55-90 | 50-85 | 35-60 | 15-40 |
| 12A Marklepass | 0-7 | Silty clay loam | CL | A-6 | 0 | 100 | 100 | 90-100 | 85-95 | 30-40 | 10-20 |
| | 7-24 | Silty clay loam, silty clay. | CL | A-6, A-7 | 0 | 100 | 100 | 90-100 | 85-95 | 35-50 | 15-30 |
| | 24-60 | Silty clay loam, silty clay. | CL | A-6, A-7 | 0 | 100 | 100 | 90-100 | 85-95 | 35-50 | 15-30 |
| 13A, 13B Round Butte | 0-10 | Silty clay loam | CL-ML, CL | A-4, A-6 | 0 | 100 | 100 | 95-100 | 85-100 | 20-35 | 5-15 |
| | 10-18 | Clay, silty clay, silty clay loam. | CL | A-6, A-7 | 0 | 100 | 100 | 95-100 | 90-100 | 35-50 | 15-30 |
| | 18-24 | Silty clay, clay, silty clay loam. | CL | A-6, A-7 | 0 | 100 | 100 | 90-100 | 85-100 | 35-50 | 15-30 |
| | 24-60 | Stratified silt loam to clay. | ML, CL | A-6, A-7 | 0 | 100 | 100 | 90-100 | 80-100 | 35-45 | 10-20 |
| 14A, 14B, 14D, 14E Belton | 0-8 | Silt loam | CL-ML, ML | A-4 | 0-10 | 90-100 | 85-100 | 75-95 | 65-90 | 20-30 | NP-10 |
| | 8-21 | Silty clay loam. | ML, MH | A-4, A-7 | 0-10 | 90-100 | 85-100 | 80-100 | 75-95 | 25-55 | 10-25 |

TABLE H.--ENGINEERING INDEX PROPERTIES--Continued

| Soil name and map symbol | Depth In | USDA texture | Classification | | Frag- ments > 3 inches Ect | Percentage passing sieve number | | | | Liquid limit Ect | Plas- ticity index |
|--------------------------|-------------|--|----------------------------|------------------|--|------------------------------------|-------|--------|--------|------------------------|--------------------------|
| | | | Unified | AASHTO | | 4 | 10 | 40 | 200 | | |
| 252E*, 252F*: Bigarm | 0-7 | Cobbly loam | SM, SM-SC, ML, CL-ML | A-4 | 15-30 | 75-85 | 70-80 | 60-75 | 40-60 | 20-30 | NP-10 |
| | 7-19 | Very cobbly loam, very cobbly fine sandy loam, very cobbly sandy loam. | GM, GM-GC, SM, SM-SC | A-4, A-2, A-1 | 30-45 | 45-75 | 40-70 | 30-60 | 15-45 | 20-30 | NP-10 |
| | 19-42 | Very cobbly sandy loam, very cobbly loam, very cobbly fine sandy loam. | SM, GM | A-1, A-2 | 30-45 | 50-80 | 40-70 | 25-50 | 10-30 | 15-25 | NP-5 |
| | 42-60 | Very cobbly loamy sand, extremely cobbly loamy sand, extremely cobbly sandy loam. | GP-GM, SP-SM, GM, SM | A-1 | 30-55 | 25-75 | 15-60 | 10-40 | 5-20 | --- | NP |
| Rubble land. | | | | | | | | | | | |
| 254F* Finleypoint | 0-12 | Cobbly loam | CL-ML | A-4 | 15-30 | 85-95 | 80-90 | 70-85 | 50-70 | 25-30 | 5-10 |
| | 12-18 | Very gravelly loam, very cobbly loam, gravelly loam. | GM-GC, CL-ML | A-2, A-4 | 15-45 | 45-85 | 40-80 | 35-75 | 25-60 | 25-30 | 5-10 |
| | 18-30 | Very gravelly loam, very gravelly sandy loam, very cobbly sandy loam. | GM, GM-GC | A-1, A-2, A-4 | 15-30 | 40-65 | 35-60 | 30-55 | 15-45 | 20-30 | NP-10 |
| | 30-60 | Very gravelly loam, very gravelly sandy loam, very gravelly sandy clay loam. | GM-GC | A-2, A-4 | 10-30 | 40-60 | 35-55 | 30-50 | 20-40 | 25-30 | 5-10 |
| 292B McCollum | 0-10 | Fine sandy loam | ML, SM | A-4 | 0 | 100 | 100 | 70-85 | 40-55 | 15-25 | NP-5 |
| | 10-21 | Fine sandy loam | ML, SM | A-4 | 0 | 100 | 100 | 70-85 | 40-55 | 15-25 | NP-5 |
| | 21-60 | Fine sandy loam, loamy fine sand. | ML, SM | A-4 | 0 | 100 | 100 | 70-85 | 40-55 | 15-25 | NP-5 |
| 513A Bolack Variant | 0-7 | Silty clay loam | CL | A-6 | 0 | 100 | 100 | 95-100 | 85-95 | 25-35 | 10-15 |
| | 7-15 | Silty clay, clay, silty clay loam. | CL | A-6, A-7 | 0 | 100 | 100 | 95-100 | 90-100 | 35-50 | 15-30 |
| | 15-25 | Silty clay, silty clay loam. | CL | A-6, A-7 | 0 | 100 | 100 | 90-100 | 85-100 | 35-50 | 15-30 |
| | 25-60 | Silty clay, clay, | CL | A-6, A-7 | 0 | 100 | 100 | 95-100 | 90-100 | 35-50 | 15-30 |

Table J. - Physical and Chemical Properties of the Soils

TABLE J.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS

(The symbol < means less than; > means more than. Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Organic matter" apply only to the surface layer. Absence of an entry indicates that data were not available or were not estimated)

| Soil name and map symbol | Depth | | Clay | Permeability | Available water capacity | Soil reaction | Salinity | Shrink-swell potential | Erosion factors | | Wind erodibility group | Organic matter |
|--|-------|-------|------|--------------|--------------------------|---------------|----------|------------------------|-----------------|-------|------------------------|----------------|
| | In | Ect | | | | | | | In/hr | In/in | | |
| 1A Grantsdale | 0-7 | 10-13 | | 0.6-2.0 | 0.16-0.20 | 6.1-7.3 | <2 | Low | 0.37 | 3 | 5 | 3-5 |
| | 7-21 | 10-13 | | 0.6-2.0 | 0.15-0.19 | 6.1-7.3 | <2 | Low | 0.37 | | | |
| | 21-27 | 10-13 | | 0.6-2.0 | 0.13-0.16 | 6.6-8.4 | <2 | Low | 0.37 | | | |
| | 27-60 | 5-10 | | 6.0-20 | 0.03-0.04 | 7.4-8.4 | <2 | Low | 0.05 | | | |
| 2B Moiese | 0-7 | 10-22 | | 0.6-2.0 | 0.14-0.16 | 6.1-7.3 | <2 | Low | 0.20 | 2 | 5 | 2-4 |
| | 7-11 | 5-22 | | 0.6-2.0 | 0.10-0.12 | 6.6-7.3 | <2 | Low | 0.17 | | | |
| | 11-16 | 5-15 | | 2.0-6.0 | 0.06-0.07 | 6.6-7.8 | <2 | Low | 0.05 | | | |
| | 16-60 | 0-5 | | 6.0-20 | 0.03-0.04 | 6.6-8.4 | <2 | Low | 0.02 | | | |
| 3A, 3B Gird | 0-9 | 10-13 | | 0.6-2.0 | 0.16-0.20 | 6.6-7.3 | <2 | Low | 0.32 | 5 | 5 | 3-5 |
| | 9-48 | 10-13 | | 0.6-2.0 | 0.16-0.20 | 6.6-7.8 | <2 | Low | 0.37 | | | |
| | 48-60 | 10-13 | | 0.6-2.0 | 0.15-0.19 | 7.4-8.4 | <2 | Low | 0.37 | | | |
| 4A. Aeric haplaquepts | | | | | | | | | | | | |
| 5B Whitearth | 0-7 | 18-27 | | 0.2-0.6 | 0.15-0.19 | 7.9-8.4 | 0-4 | Low | 0.43 | 5 | 6 | 2-3 |
| | 7-13 | 27-35 | | 0.06-0.2 | 0.08-0.10 | >8.4 | 4-8 | Moderate | 0.37 | | | |
| | 13-32 | 10-27 | | 0.2-0.6 | 0.10-0.12 | >8.4 | 4-8 | Low | 0.43 | | | |
| | 32-60 | 10-27 | | 0.2-0.6 | 0.08-0.10 | >8.4 | 4-16 | Low | 0.43 | | | |
| 6B, 6E Sacheen | 0-8 | 3-3 | | >20 | 0.11-0.12 | 6.1-7.3 | <2 | Low | 0.17 | 5 | 2 | 5-1 |
| | 8-60 | 3-3 | | >20 | 0.09-0.11 | 6.1-7.3 | <2 | Low | 0.17 | | | |
| 7B Jocko | 0-8 | 0-25 | | 0.6-2.0 | 0.13-0.16 | 6.1-7.3 | <2 | Low | 0.17 | 3 | 5 | 2-4 |
| | 8-15 | 5-15 | | 0.6-6.0 | 0.08-0.10 | 6.6-7.8 | <2 | Low | 0.17 | | | |
| | 15-60 | 0-5 | | 5.0-20 | 0.01-0.02 | 6.6-7.8 | <2 | Low | 0.02 | | | |
| 8A Henolf | 0-7 | 3-15 | | 2.0-6.0 | 0.12-0.14 | 6.6-7.3 | <2 | Low | 0.17 | 3 | 5 | 2-4 |
| | 7-13 | 5-15 | | 2.0-6.0 | 0.06-0.09 | 6.6-7.3 | <2 | Low | 0.05 | | | |
| | 13-60 | 0-5 | | 6.0-20.0 | 0.02-0.04 | 6.6-7.3 | <2 | Low | 0.02 | | | |
| 9A Lamoose | 0-7 | 18-27 | | 0.6-2.0 | 0.17-0.21 | 6.6-8.4 | <2 | Low | 0.28 | 3 | 8 | 4-6 |
| | 7-20 | 18-27 | | 0.6-2.0 | 0.15-0.19 | 6.6-7.8 | <2 | Low | 0.32 | | | |
| | 20-60 | 0-10 | | 6.0-20 | 0.02-0.03 | 6.6-7.8 | <2 | Low | 0.05 | | | |
| 100*: Rock outcrop. Rubble land. | | | | | | | | | | | | |
| 10A Bohny | 0-8 | 18-27 | | 0.6-2.0 | 0.18-0.20 | 6.6-7.8 | <2 | Low | 0.32 | 5 | 8 | 4-8 |
| | 8-13 | 18-27 | | 0.6-2.0 | 0.17-0.19 | 6.6-7.8 | <2 | Low | 0.32 | | | |
| | 13-60 | 18-32 | | 0.6-2.0 | 0.18-0.20 | 6.6-7.8 | <2 | Moderate | 0.32 | | | |
| 11A | 0-7 | 18-27 | | 0.6-2.0 | 0.15-0.19 | 6.6-7.3 | <2 | Low | 0.32 | 5 | 8 | 4-8 |

Table J. - Physical and Chemical Properties of the Soils (Continued)

TABLE J.--PHYSICAL AND CHEMICAL PROPERTIES OF THE SOILS--Continued

| Soil name and map symbol | Depth In | Clay Ect | Permeability In/hr | Available water capacity In/in | Soil reaction pH | Salinity mmhos/cm | Shrink-swell potential | Erosion factors | | Wind erodibility group | Organic matter Ect |
|--------------------------|-------------|-------------|-----------------------|-----------------------------------|---------------------|----------------------|------------------------|-----------------|---|------------------------|-----------------------|
| | | | | | | | | K | I | | |
| 252E*, 252F*: Bigarm | 0-7 | 7-18 | 0.6-2.0 | 0.11-0.14 | 6.6-7.3 | <2 | Low | 0.17 | 3 | 5 | 2-4 |
| | 7-19 | 5-18 | 2.0-6.0 | 0.07-0.09 | 6.6-7.3 | <2 | Low | 0.10 | | | |
| | 19-42 | 5-18 | 2.0-6.0 | 0.06-0.08 | 6.6-7.3 | <2 | Low | 0.10 | | | |
| | 42-60 | 5-18 | 2.0-6.0 | 0.03-0.04 | 6.6-7.3 | <2 | Low | 0.05 | | | |
| Rubble land. | | | | | | | | | | | |
| 254F* Finleypoint | 0-12 | 15-25 | 0.6-2.0 | 0.12-0.14 | 6.1-7.3 | <2 | Low | 0.20 | 3 | 5 | 3-5 |
| | 12-18 | 15-25 | 0.6-2.0 | 0.09-0.11 | 6.1-7.3 | <2 | Low | 0.15 | | | |
| | 18-30 | 10-25 | 0.6-2.0 | 0.08-0.10 | 6.1-7.3 | <2 | Low | 0.10 | | | |
| | 30-60 | 15-25 | 0.6-2.0 | 0.08-0.10 | 6.1-7.3 | <2 | Low | 0.10 | | | |
| 292B McCullum | 0-10 | 8-18 | 2.0-6.0 | 0.13-0.16 | 6.1-7.3 | <2 | Low | 0.20 | 5 | 3 | 2-4 |
| | 10-21 | 8-18 | 2.0-6.0 | 0.12-0.15 | 6.1-7.3 | <2 | Low | 0.20 | | | |
| | 21-60 | 8-18 | 2.0-6.0 | 0.11-0.14 | 6.6-7.3 | <2 | Low | 0.20 | | | |
| 513A Bolack Variant | 0-7 | 27-35 | 0.2-0.6 | 0.16-0.20 | 6.6-7.3 | <2 | Moderate | 0.43 | 5 | 8 | 5-2 |
| | 7-15 | 35-60 | <0.06 | 0.12-0.16 | 6.6-7.8 | 2-4 | Moderate | 0.37 | | | |
| | 15-25 | 35-50 | <0.06 | 0.12-0.16 | 6.6-7.8 | 1-3 | Moderate | 0.37 | | | |
| | 25-60 | 35-50 | <0.06 | 0.14-0.18 | 7.9-8.4 | <2 | Moderate | 0.37 | | | |

* See description of the map unit for composition and behavior characteristics of the map unit.

SOIL SURVEY SANDERS AND PARTS OF LINCOLN AND FLATHEAD COUNTIES, MONTANA

AUGUST 31,

Table K. - Soil and Water Features

TABLE K.--SOIL AND WATER FEATURES

("Flooding" and "water table" and terms such as "rare," "brief," "apparent," and "perched" are explained in the text. T < means less than; > means more than. Absence of an entry indicates that the feature is not a concern or that data estimated)

| Soil name and map symbol | Hydro-logic group | Flooding | | | High water table | | | Bedrock | | Potential frost action | Risk of Uncoated steel |
|--------------------------|-------------------|-----------|----------|--------|------------------|------|--------|---------|----------|------------------------|------------------------|
| | | Frequency | Duration | Months | Depth | Kind | Months | Depth | Hardness | | |
| 1A Grantsdale | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Moderate | High |
| 2B Moiese | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Low | High |
| 3A, 3B Gird | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | High | High |
| 4A. | | | | | | | | | | Moderate | High |

| Series | Texture | Slope | Percent Composition | K | Factors T | I | AWC | HEL | Capacity NIRR | IRR | Flooding | Ave. PPT | Range Site | Range PPT | Range Production |
|--------------------------------|---------|-------|------------------------|-----|--------------|-----|------|-----|------------------|-----|----------|-------------|---------------|--------------|---------------------|
| 1A Grantsdale | l | 0-4 | 85 | .37 | 3 | 56 | 5.5 | no | 3e | 2e | none | 16. | st | 15-19" | 1000-1900 |
| 2B Moiese | grl | 0-4 | 90 | .20 | 2 | 56 | 3.25 | no | 6s | 4s | none | 13. | swg | 10-14" | 500-1200 |
| 3A Gird | sil | 0-4 | 85 | .37 | 5 | 56 | 9. | no | 3e | 2e | none | 16. | si | 15-19" | 1000-1900 |
| 3B Gird | sil | 4-9 | 85 | .37 | 5 | 56 | 9. | no | 3e | 3e | none | 16. | si | 15-19" | 1000-1900 |
| 4A <u>Aeric Haplaquepts</u> | | 0-2 | | | | | 0- | H. | 6w | | freg | 25. | | | |
| 5B Whitearth | sil | 0-4 | 85 | .43 | 5 | 48 | 5.5 | no | 7s | 7s | none | 12. | st | 10-14" | 1200-2000 |
| 6B <u>Sacheen</u> | ifs | 2-3 | 90 | .17 | 5 | 220 | 2.75 | yes | 6e | | none | 15. | sy | 15-19" | 700-1500 |
| 6E <u>Sacheen</u> | ifs | 8-30 | 85 | .17 | 5 | 220 | 2.75 | yes | 6e | | none | 15. | sy | 15-19" | 700-1500 |
| 7B Jocko | grl | 0-4 | 90 | .17 | 3 | 56 | 2.25 | no | 4s | 4s | none | 15. | swg | 15-19" | 800-1500 |
| 8A Hewolf | grl | 0-2 | 85 | .17 | 3 | 56 | 2.5 | H | 6s | 4s | rare | 15. | swg | 15-19" | 1000-1700 |
| 9A <u>LaMoose</u> | sil | 0-2 | 85 | .28 | 3 | | 4.5 | H | 5w | | occs | 15. | wm | 15-19" | 4000-5500 |
| 10A <u>Bohny</u> | sil | 0-2 | 85 | .32 | 5 | | 10. | H | 5w | | occs | 12. | wm | 10-14" | 3500-5000 |
| 11A <u>Bolack</u> | sil | 0-2 | 85 | .32 | 5 | | 10. | H | 5w | | occs | 12. | wm | 10-14" | 3500-500 |

| Series | Texture | Slope | Percent Composition | Erosion Factors | | | ARC | HEL | Capability | | Flooding | Ave. PFT | Range Site | Range PFT | Range Production |
|-----------------------|-------------------------|-------|------------------------|--------------------|---|----|------|-----|------------|-----|----------|-------------|---------------|--------------|---------------------|
| | | | | K | T | I | | | NRR | ISR | | | | | |
| Halfmoon | sil | 8-15 | 85 | .37 | 5 | 48 | 10. | no | 4e | 4e | none | 21. | - | - | - |
| 70E Halfmoon | sil | 15-30 | 85 | .37 | 5 | 48 | 10. | yes | 6a | - | none | 21. | - | - | - |
| 72B Cannah Variant | sicl | 2-8 | 85 | .43 | 5 | 49 | 6.5 | no | 4e | 4e | none | 18. | - | - | - |
| 90F Rock outcrop | - | - | 20 | - | - | - | -0- | - | 8 | - | - | -0- | - | - | - |
| Rubble land | - | - | 30 | - | - | - | -0- | - | 8 | - | - | -0- | - | - | - |
| Sharratt | grl | 15-60 | 35 | .20 | 1 | 56 | 1. | yes | 7e | - | none | 19. | - | - | - |
| 92F Rock outcrop | - | - | 25 | - | - | - | -0- | - | 8 | - | - | -0- | - | - | - |
| Rubble land | - | - | 20 | - | - | - | -0- | - | 8 | - | - | -0- | - | - | - |
| Sharratt, gravel | grl | 15-60 | 49 | .20 | 1 | 56 | 1.25 | yes | 7e | - | none | 20. | - | - | - |
| 84E Lozeau | grl | 8-30 | 85 | .24 | 3 | 56 | 4. | yes | 6a | 6e | none | 23. | - | - | - |
| 84F Lozeau | grl | 30-50 | 85 | .24 | 3 | 56 | 4. | yes | 7e | 7e | none | 23. | - | - | - |
| 85A Hogheaven | sil | 0-2 | 85 | .37 | 5 | 86 | 9.5 | no | 6s | 4s | occs | 13. | sl | 10-14" | 1400-2400 |
| 87E Pashua | grl | 8-30 | 85 | .28 | 3 | 56 | 4. | ? | 6e | 6e | none | 22. | - | - | - |
| 90A Camascreek | sil | 0-2 | 90 | .49 | 5 | 86 | 6.25 | no | 6s | 4s | rare | 13. | sl | 10-14" | 1500-2500 |
| 91B Biglake | grl | 0-8 | 90 | .15 | 3 | 86 | 2.4 | no | 6e | 4e | none | 15. | svg | 15-19" | 1000-1800 |
| 292B McCollum | ^{fsil} fsil | 0-4 | 85 | .20 | 5 | 86 | 7.5 | yes | 4e | 4e | none | 16. | sv | 15-19" | 1000-1900 |
| 92A Morseplains | fsil | 0-2 | 90 | .20 | 5 | 86 | 5.25 | yes | 4e | 4e | rare | 17. | - | - | - |
| 94A Sanders County | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|----------------|-------|-------|---------|-----------|---------|-----|----------|------|---|---|------|
| 513A | 0-7 | 27-35 | 0.2-0.6 | 0.16-0.20 | 6.6-7.3 | <2 | Moderate | 0.43 | 5 | 8 | .5-2 |
| Belack Variant | 7-15 | 35-60 | <0.06 | 0.12-0.16 | 6.6-7.8 | 2-4 | Moderate | 0.37 | | | |
| | 15-25 | 35-50 | <0.06 | 0.12-0.16 | 6.6-7.8 | 1-3 | Moderate | 0.37 | | | |
| | 25-60 | 35-50 | <0.06 | 0.14-0.18 | 7.9-8.4 | <2 | Moderate | 0.37 | | | |

* See description of the map unit for composition and behavior characteristics of the map unit.

SOIL SURVEY SANDERS AND PARTS OF LINCOLN AND FLATHEAD COUNTIES, MONTANA

AUGUST 31, 1989

Table K. - Soil and Water Features

August 31, 1989

TABLE K.--SOIL AND WATER FEATURES

("Flooding" and "water table" and terms such as "rare," "brief," "apparent," and "perched" are explained in the text. The symbol < means less than; > means more than. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

| Soil name and map symbol | Hydro-logic group | Flooding | | | High water table | | | Bedrock | | Potential frost action | Risk of corrosio | |
|--|-------------------|------------|----------|---------|------------------|----------|---------|---------|----------|------------------------|------------------|---------|
| | | Frequency | Duration | Months | Depth | Kind | Months | Depth | Hardness | | Uncoated steel | Concret |
| 1A Grantsdale | B | None | --- | --- | Et | --- | --- | In | --- | Moderate | High | Low. |
| 2B Moiese | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Low | High | Low. |
| 3A, 3B Gird | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | High | High | Low. |
| 4A Aeric haplaquepts | | | | | | | | | | | | |
| 5B Whitearth | C | None | --- | --- | >6.0 | --- | --- | >60 | --- | Moderate | High | High. |
| 6B, 6E Sacheen | A | None | --- | --- | >6.0 | --- | --- | >60 | --- | Low | Moderate | Low. |
| 7B Jocko | A | None | --- | --- | >6.0 | --- | --- | >60 | --- | Low | Moderate | Low. |
| 8A Hewolf | | Rare | --- | --- | 5.0-6.0 | Apparent | Apr-Jul | >60 | --- | Low | Moderate | Low. |
| 9A Lamoose | D | Occasional | Brief | Jan-Jun | 0-1.0 | Apparent | Apr-May | >60 | --- | High | High | Low. |
| 100*: Rock outcrop. Rubble land. | | | | | | | | | | | | |
| 10A Bohnly | D | Occasional | Brief | Apr-Jun | 0-2.0 | Apparent | Apr-Sep | >60 | --- | High | Moderate | Low. |

. See footnote at end of table.

SOIL SURVEY SANDERS AND PARTS OF LINCOLN AND FLATHEAD COUNTIES, MONTANA

AUGUST 31, 1989

TABLE K.--SOIL AND WATER FEATURES--Continued

| Soil name and map symbol | Hydro-logic group | Flooding | | | High water table | | | Bedrock | | Potential frost action | Risk of corrosion | |
|---|-------------------|-----------|-----------|---------|------------------|----------|---------|---------|----------|------------------------|-------------------|-----------|
| | | Frequency | Duration | Months | Depth | Kind | Months | Depth | Hardness | | Uncoated steel | Concrete |
| | | | | | | | | | | | | |
| 252E*, 252F*: Bigarm Rubble land. | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Moderate | Moderate | Low. |
| 254F* Finleypoint | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Moderate | Moderate | Low. |
| 292B McCollum | B | None | --- | --- | >6.0 | --- | --- | >60 | --- | Moderate | High | Low. |
| 513A Bolack Variant | D | Frequent | Very long | Mar-Aug | +1.2-1.0 | Apparent | Apr-Sep | >60 | --- | High | High | Moderate. |

* See description of the map unit for composition and behavior characteristics of the map unit.

Table P. - Water Management

TABLE P.--WATER MANAGEMENT

(Some terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not evaluated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

| Soil name and map symbol | Limitations for-- | | Features affecting-- | | | |
|--|---------------------------|--------------------------------|--|-------------------------------|---------------------------------|------------------------------|
| | Pond reservoir areas | Embankments, dikes, and levees | Drainage | Irrigation | Terraces and diversions | Grassed waterways |
| 1A Grantsdale | Severe: seepage. | Severe: seepage. | Deep to water | Erodes easily | Erodes easily, too sandy. | Erodes easily. |
| 2B Moiese | Severe: seepage. | Severe: seepage. | Deep to water | Droughty | Large stones, too sandy. | Large stones, droughty. |
| 3A Gird | Moderate: seepage. | Severe: piping. | Deep to water | Favorable | Erodes easily | Erodes easily. |
| 3B Gird | Moderate: seepage, slope. | Severe: piping. | Deep to water | Slope | Erodes easily | Erodes easily. |
| 4A Aeric haplaquepts | | | | | | |
| 5B Whitearth | Slight | Severe: thin layer. | Deep to water | Percs slowly, erodes easily. | Erodes easily, percs slowly. | Erodes easily, percs slowly. |
| 6B Sacheen | Severe: seepage. | Severe: piping. | Deep to water | Slope, droughty, fast intake. | Too sandy, soil blowing. | Droughty. |
| 6E Sacheen | Severe: seepage, slope. | Severe: piping. | Deep to water | Slope, droughty, fast intake. | Slope, too sandy, soil blowing. | Slope, droughty. |
| 7B Jocko | Severe: seepage. | Severe: seepage. | Deep to water | Large stones, droughty. | Large stones, too sandy. | Large stones, droughty. |
| 8A Hewelf | Severe: seepage. | Severe: seepage. | Deep to water | Droughty | Too sandy | Droughty. |
| 9A Lamoose | Severe: seepage. | Severe: seepage, wetness. | Flooding, frost action, cutbanks cave. | Wetness, droughty, flooding. | Wetness, too sandy. | Wetness, droughty. |
| 100x: Rock outcrop. Rubble land. | | | | | | |
| 10A Bohnly | Moderate: seepage. | Severe: piping, wetness. | Flooding, frost action. | Wetness, flooding. | Wetness | Wetness. |

TABLE P.--WATER MANAGEMENT--Continued

| Soil name and map symbol | Limitations for-- | | | Features affecting-- | | |
|--------------------------------|-------------------------------|--------------------------------------|--|--------------------------------------|---|---|
| | Pond reservoir areas | Embankments, dikes, and levees | Drainage | Irrigation | Terraces and diversions | Grassed waterways |
| 217E*: Round Butte | Severe: slope. | Severe: excess sodium. | Deep to water | Droughty, percs slowly; slope. | Slope, erodes easily, percs slowly. | Slope, excess sodium, erodes easily. |
| Irvine | Severe: slope. | Slight | Deep to water | Slope, droughty, percs slowly. | Slope, erodes easily, percs slowly. | Slope, erodes easily, droughty. |
| 218D*: Dryfork | Severe: slope. | Severe: piping. | Deep to water | Slope, erodes easily. | Slope, erodes easily. | Too arid; slope, erodes easily. |
| Selow. | | | | | | |
| 250E*: Bigarm | Severe: seepage, slope. | Severe: seepage. | Deep to water | Droughty, slope. | Slope, large stones, too sandy. | Large stones, slope, droughty. |
| Rubble land. | | | | | | |
| 250F*: Bigarm | Severe: seepage, slope. | Severe: seepage, large stones. | Deep to water | Slope, large stones, droughty. | Slope, large stones, too sandy. | Large stones, slope, droughty. |
| Rubble land. | | | | | | |
| 251A. Typic xerofluvents | | | | | | |
| 252E*: 252F*: Bigarm | Severe: seepage, slope. | Severe: seepage, large stones. | Deep to water | Slope, large stones, droughty. | Slope, large stones, too sandy. | Large stones, slope, droughty. |
| Rubble land. | | | | | | |
| 254F*: Finleypoint | Severe: slope. | Moderate: large stones. | Deep to water | Large stones, droughty, slope. | Slope, large stones. | Large stones, slope, droughty. |
| 292B McCullum | Severe: seepage. | Severe: piping. | Deep to water | Soil blowing | Soil blowing | Favorable. |
| 513A Bolack Variant | Slight | Severe: ponding. | Ponding, percs slowly, flooding. | Ponding, percs slowly. | Erodes easily, ponding, percs slowly. | Wetness, erodes easily, percs slowly. |

* See description of the map unit for composition and behavior characteristics of the map unit.

TABLE M.--BUILDING SITE DEVELOPMENT

Table M. - Building Site Development

(Some terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not rated. The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation)

| Soil name and map symbol | Shallow excavations | Dwellings without basements | Dwellings with basements | Small commercial buildings | Local roads and streets | Lawns and landscaping |
|--|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|---|--|
| 1A Grantsdale | Severe: cutbanks cave. | Slight | Slight | Slight | Moderate: frost action. | Slight. |
| 2B Moiese | Severe: cutbanks cave. | Slight | Slight | Slight | Slight | Moderate: small stones, large stones, droughty. |
| 3A Gird | Slight | Slight | Slight | Slight | Severe: frost action. | Slight. |
| 3B Gird | Slight | Slight | Slight | Moderate: slope. | Severe: frost action. | Slight. |
| 4A Aeric haplaquepts | | | | | | |
| 5B Whitearth | Slight | Moderate: shrink-swell. | Moderate: shrink-swell. | Moderate: shrink-swell. | Severe: low strength. | Slight. |
| 6B Sacheen | Severe: cutbanks cave. | Slight | Slight | Moderate: slope. | Slight | Moderate: droughty. |
| 6E Sacheen | Severe: cutbanks cave. | | | Severe: slope. | | |
| 7B Jocko | Severe: cutbanks cave. | Moderate: large stones. | Moderate: large stones. | Moderate: large stones. | Moderate: large stones. | Moderate: small stones, large stones, droughty. |
| 8A Hewolf | Severe: cutbanks cave. | Severe: flooding. | Severe: flooding. | Severe: flooding. | Moderate: flooding. | Severe: droughty. |
| 9A Lamoose | Severe: cutbanks cave, wetness. | Severe: flooding, wetness. | Severe: flooding, wetness. | Severe: flooding, wetness. | Severe: wetness, flooding, frost action. | Severe: wetness. |
| 100*: Rock outcrop. Rubble land. | | | | | | |
| 10A Bohny | Severe: cutbanks cave, wetness. | Severe: flooding, wetness. | Severe: flooding, wetness. | Severe: flooding, wetness. | Severe: wetness, flooding, frost action. | Severe: wetness. |
| 11A Bolack | Severe: wetness. | Severe: flooding. | Severe: flooding. | Severe: flooding. | Severe: shrink-swell. | Moderate: wetness. |

TABLE M.--BUILDING SITE DEVELOPMENT--Continued

| Soil name and map symbol | Shallow excavations | Dwellings without basements | Dwellings with basements | Small commercial buildings | Local roads and streets | Lawns and landscaping |
|-----------------------------|-------------------------------------|----------------------------------|----------------------------------|----------------------------------|---|----------------------------------|
| 251A. Typic xerofluvents | | | | | | |
| 252E*, 252F*: Bigarm | Severe: cutbanks cave, slope. | Severe: slope. | Severe: slope. | Severe: slope. | Severe: slope. | Severe: slope. |
| Rubble land. | | | | | | |
| 254F* Finleypoint | Severe: slope. | Severe: slope. | Severe: slope. | Severe: slope. | Severe: slope. | Severe: slope. |
| 292B McColium | Severe: cutbanks cave. | Slight | Slight | Slight | Moderate: frost action. | Slight. |
| 513A Bolack Variant | Severe: ponding. | Severe: flooding, ponding. | Severe: flooding, ponding. | Severe: flooding, ponding. | Severe: low strength, ponding, flooding. | Severe: ponding, flooding. |

* See description of the map unit for composition and behavior characteristics of the map unit.

(Some terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of an entry indicates that the soil was not rated)

Table G. - Recreational Development

| Soil name and map symbol | Camp areas | Picnic areas | Playgrounds | Paths and trails | Golf fairways |
|--|----------------------------------|--|---|-------------------------|--|
| 1A Grantsdale | Moderate: dusty. | Moderate: dusty. | Moderate: slope, dusty. | Slight | Slight. |
| 2B Moiese | Moderate: small stones. | Moderate: small stones. | Severe: small stones. | Moderate: dusty. | Moderate: small stones, large stones, droughty. |
| 3A Gird | Moderate: dusty. | Moderate: dusty. | Moderate: slope, dusty. | Moderate: dusty. | Slight. |
| 3B Gird | Moderate: dusty. | Moderate: dusty. | Severe: slope. | Moderate: dusty. | Slight. |
| 4A Aeric haplaquepts | | | | | |
| 5B Whitearth | Moderate: percs slowly. | Moderate: percs slowly. | Moderate: slope, percs slowly. | Slight | Slight. |
| 6B Sacheen | Moderate: too sandy. | Moderate: too sandy. | Moderate: slope, too sandy. | Moderate: too sandy. | Moderate: droughty. |
| 6E Sacheen | | | Severe: slope. | Moderate: too sandy. | |
| 7B Jocko | Moderate: small stones. | Moderate: small stones. | Severe: small stones. | Slight | Moderate: small stones, large stones, droughty. |
| 8A Hewolf | Severe: flooding. | Moderate: small stones. | Severe: small stones. | Slight | Severe: droughty. |
| 9A Lamoose | Severe: flooding, wetness. | Severe: wetness. | Severe: wetness. | Severe: wetness. | Severe: wetness. |
| 100*: Rock outcrop. Rubble land. | | | | | |
| 10A Bohny | Severe: flooding, wetness. | Severe: wetness. | Severe: wetness. | Severe: wetness. | Severe: wetness. |
| 11A Bolack | Severe: flooding. | Moderate: wetness, percs slowly. | Moderate: wetness, flooding, percs slowly. | Moderate: wetness. | Moderate: wetness, flooding. |

TABLE G.--RECREATIONAL DEVELOPMENT--Continued

| Soil name and map symbol | Camp areas | Picnic areas | Playgrounds | Paths and trails | Golf fairways |
|-----------------------------|---|--------------------------------------|---|--|----------------------------------|
| 2180*: Selow. | | | | | |
| 250E*: Bigarm | Severe: slope. | Severe: slope. | Severe: large stones, slope, small stones. | Moderate: slope, dusty. | Severe: slope. |
| Rubble land. | | | | | |
| 250F*: Bigarm | Severe: slope. | Severe: slope. | Severe: large stones, slope, small stones. | Severe: slope. | Severe: slope. |
| Rubble land. | | | | | |
| 251A. Typic xerofluvents | | | | | |
| 252E*: Bigarm | Severe: slope. | Severe: slope. | Severe: large stones, slope, small stones. | Moderate: large stones, slope, dusty. | Severe: slope. |
| Rubble land. | | | | | |
| 252F*: Bigarm | Severe: slope. | Severe: slope. | Severe: large stones, slope, small stones. | Severe: slope. | Severe: slope. |
| Rubble land. | | | | | |
| 254F* Finleypoint | Severe: slope. | Severe: slope. | Severe: large stones, slope. | Severe: slope. | Severe: slope. |
| 292B McCollum | Slight | Slight | Moderate: slope. | Slight | Slight. |
| 513A Bolack Variant | Severe: flooding, ponding, percs slowly. | Severe: ponding, percs slowly. | Severe: ponding, flooding, percs slowly. | Severe: ponding. | Severe: ponding, flooding. |

* See description of the map unit for composition and behavior characteristics of the map unit.

P R E C I P I T A T I O N

BY 10 (OR 11)-DAY AND MONTHLY PERIODS

STATION NUMBER 241206

PLAINS

YRS 1978-1988

| PERIOD BEGINS | NO. YRS | 10-DAY AND MONTHLY TOTALS | | | | | | I I | MAXIMUM DAILY TOTALS | | | | |
|------------------|------------|---------------------------|-------------|--------|--------------------|-------------------|---|---------|----------------------|------------|------------|--------|--|
| | | MEAN TOTAL | STD, DEV | MEDIAN | HIGHEST TOT, YR | LOWEST TOT, YR | I | | EXTREME YR | AVE MAX | STD DEV | MEDIAN | |
| MAY 1 | 10 | .486 | .337 | .445 | 1.13 80 | .01 85 | I | .52 80 | .236 | .167 | .165 | | |
| MAY 11 | 10 | .241 | .276 | .150 | .82 81 | .01 79 | I | .67 80 | .155 | .207 | .070 | | |
| MAY 21 | 10 | 1.171 | .931 | 1.065 | 2.99 80 | .00 83 | I | 1.30 85 | .578 | .414 | .480 | | |
| JUN 1 | 11 | .441 | .419 | .320 | 1.30 85 | .00 78 | I | .85 80 | .237 | .263 | .140 | | |
| JUN 11 | 11 | .459 | .495 | .280 | 1.41 81 | .00 85 | I | .68 80 | .245 | .244 | .190 | | |
| JUN 21 | 11 | .577 | .491 | .320 | 1.28 82 | .00 85 | I | 1.00 84 | .359 | .330 | .260 | | |
| JUL 1 | 11 | .409 | .435 | .320 | 1.55 78 | .00 85 | I | .65 86 | .217 | .212 | .160 | | |
| JUL 11 | 11 | .305 | .283 | .270 | .79 80 | .00 85 | I | .60 88 | .216 | .215 | .190 | | |
| JUL 21 | 11 | .275 | .379 | .040 | 1.03 87 | .00 88 | I | .57 87 | .173 | .228 | .040 | | |
| AUG 1 | 11 | .162 | .293 | .010 | .90 85 | .00 86 | I | .38 84 | .093 | .141 | .010 | | |
| AUG 11 | 11 | .410 | .339 | .410 | .88 87 | .00 81 | I | .54 78 | .211 | .172 | .140 | | |
| AUG 21 | 11 | .351 | .349 | .300 | 1.14 79 | .00 87 | I | .71 79 | .241 | .228 | .150 | | |
| SEP 1 | 11 | .309 | .328 | .270 | 1.04 85 | .00M 88 | I | .55 85 | .185 | .174 | .170 | | |
| SEP 11 | 11 | .524 | .586 | .210 | 1.82 85 | .00M 81 | I | .75 85 | .273 | .284 | .160 | | |
| SEP 21 | 11 | .272 | .317 | .110 | .97 82 | .00 83 | I | .63 82 | .179 | .221 | .090 | | |
| OCT 1 | 9 | .059 | .122 | .010 | .37 85 | .00M 88 | I | .36 85 | .051 | .115 | .010 | | |
| OCT 11 | 9 | .291 | .445 | .020 | 1.33M 88 | .00 86 | I | 1.02 88 | .223 | .339 | .010 | | |
| OCT 21 | 7 | .204 | .320 | .070 | .91 84 | .00 87 | I | .25 84 | .087 | .091 | .040 | | |

| MONTH | | | | | | | | I I | | | | | |
|-------|----|-------|-------|-------|---------|---------|---|---------|------|------|------|--|--|
| MAY | 10 | 1.898 | 1.206 | 1.665 | 4.79 80 | .64 79 | I | 1.30 85 | .630 | .354 | .500 | | |
| JUN | 11 | 1.477 | .755 | 1.290 | 2.89 80 | .25 79 | I | 1.00 84 | .516 | .290 | .540 | | |
| JUL | 11 | .989 | .545 | .880 | 2.03 78 | .00 85 | I | .65 86 | .426 | .199 | .500 | | |
| AUG | 11 | .923 | .631 | .830 | 2.12 85 | .08 88 | I | .71 79 | .348 | .192 | .320 | | |
| SEP | 11 | 1.105 | .828 | 1.000 | 2.98 85 | .06 87 | I | .75 85 | .413 | .243 | .420 | | |
| OCT | 8 | .406 | .415 | .265 | 1.19 84 | .02M 87 | I | 1.02 88 | .192 | .169 | .160 | | |

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