

DICKEY COUNTY SOIL SURVEY

U. S. Department Report Show Many Varieties and Their Uses. Growing Small Grains Too Extensively Has Been Injurious.

Washington, Dec. 1.—A report of the soil survey of Dickey county, N. D., compiled by the bureau of soils of the United States department of agriculture in co-operation with the North Dakota agricultural experiment station, is accompanied by a sketch map showing the areas in North Dakota covered by soil surveys, and by a colored map showing the distribution of various soils in Dickey county. In general, the agriculture of Dickey county is new and there has been little adaptation of crops to the soil. Wheat is the principal crop, though it is steadily losing its lead in acreage over the other crops. Oats, barley, and flax are grown, the latter largely as a first crop on newly broken prairie sod. The corn acreage is steadily increasing. Much wild hay is cut. Rye and broom-corn millet are grown to a limited extent, and vegetables are produced for home use.

27 Types of Soils.

A total of 27 distinct types of soil is mapped, in addition to rough broken land, a miscellaneous classification. The soil types are grouped into 10 series. All the soils are derived from glacial drift, which ranges in the county from a thin veneer to 40 or 45 feet in thickness. The county occupies two plains, differing several hundred feet in elevation. The Barnes series, consisting of four types, is the most extensive soil group in the county, covering more than 50 per cent of the area. The chief type of the series is the Barnes loam, which is a dark-brown to black, mellow loam, 8 to 12 inches deep, underlain by lighter brown, yellowish-brown, or greenish, highly calcareous, moderately compact loam. Several variations of the type occur. Some areas of this type require special attention to avoid drifting or blowing, especially in the spring, although several other types in the county require even more care than this in that respect. The type constitutes one of the best corn soils of the county, and alfalfa can be grown successfully on much of it.

Small Grains Take Life Out.

The Barnes silt loam is a dark-brown to black silt loam to heavy loam, underlain at an average depth of about 12 inches by a lighter brown or yellowish-brown silty clay loam or loam, often showing a shade of green, and always highly calcareous. This type is usually well drained, and practically all of it is available for agriculture. The soil was originally rich in organic matter, but much of it has been exhausted by a continual cropping to small grains. The soil may be improved by the growing of legumes and grass and cultivated crops in rotation. Manure also should be added.

The Barnes very fine sandy loam is dark brown to black, and is underlain by a lighter brown loam which grades into yellowish or grayish brown loam. This type is slightly less productive than associated areas of the Barnes loam.

The soil of the Barnes silty clay loam to a depth of 10 to 12 inches is a black or very dark brown silty clay loam. This is underlain by dark grayish brown or drab silty clay loam or silty clay which with increasing depth gradually becomes more brown mottled with gray and rusty brown. Spots of both heavier and lighter soil are of common occurrence in this type. Some areas of the type are heavy enough to cause difficulty in cultivation, except at times when the moisture would improve the productive power of this soil by clearing it of weeds.

To a depth of 10 to 12 inches the soil of the Williams fine sandy loam is a dark-brown to very dark brown, mellow or loose fine sandy loam. The subsoil is a light-brown fine sandy loam. Several variations of this type occur, and the surface of much of it is strown with stones. It produces good yields of flax, oats, wheat and corn.

Gravelly Loam Undesirable.

The Williams gravelly loam is a very dark brown, medium to coarse grayish-white, highly calcareous, gravelly loam. The subsoil consists of a grayish-brown gravelly loam to a grayish-white, highly calcareous, earthy gravel. The soil contains considerable lime carbonate. Most of this type is not suited to agriculture, being steep, stony, and droughty. It affords scant pasturage.

The soil of the Williams loam is a dark-brown to a very dark brown, occasionally black, mellow loam, 12 inches deep, grading through a few inches of brown, compact loam into a grayish-white or pale yellowish gray, friable loam. The lower subsoil is pale yellow, grayish yellow, or light brown. Most of this type occurs in one large body in the northwestern part of the county. The Williams loam is a good agricultural soil, is easy to cultivate, is not drifted by the wind, and holds moisture well. The soil of the Fargo silty clay is a black to very dark brown, friable compact, usually calcareous silty clay to 24 inches deep. It is sometimes faintly mottled with rusty brown. The subsoil is a gray or drab, plastic, calcareous silty clay. This type is not well suited to agriculture, being too wet in the spring to be seeded to wheat, but is used for the production of hay.

STIRRING UP PATRIOTISM AIM OF CONFERENCE IN WASHINGTON



Left to right, top: Governor Phillips, Robert Bacon and Frank Trumbull. Bottom: Joseph Choate, Luke E. Wright and S. Stanwood Menken.

Washington, Dec. 1.—A congress of constructive patriotism for America, to be held in Washington on January 25, 26 and 27, 1917, by the National Security league, will discuss the league determined that the true basis of national security was not to be found in the army and navy alone, which are the expressions of a country's efficiency or inefficiency, but in the united spirit of a people awake to the dangers inherent in neglect, violation of their rights and strongly united in the determination to achieve for their country its fullest moral as well as material development.

Riot at Honolulu Docks

Stokers from liner Makura start trouble—Police men are injured in the fight.

Honolulu, Dec. 1.—Twenty-five stokers from the liner Makura rioted at the docks here yesterday morning, and the steamer's departure for Sydney, N. S. W. and several of the Makura's sailors and a number of Honolulu policemen were injured while endeavoring to keep the stokers and herd the rioters on board their ship.

Young Aviator Killed

Berne, Ind., Man Meets Death in First Flight in Machine He Spent Over Year Building.

Berne, Ind., Dec. 1.—While making his first flight in an airplane which he spent more than a year in building, Paul Rhoter, aged 19, son of Fred Rhoter, editor of The Berne Witness, was killed here yesterday afternoon. After the young aviator had attained a height of about 100 feet he lost control of the machine and it crashed to the ground. He was crushed beneath the engine.

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Utah County Went For President

Salt Lake City, Utah, Dec. 1.—Final election returns announced today by the state canvassing board show that President Wilson carried every county in Utah. The final figures give for president, Wilson 84,045; Hughes 54,155. Wilson's plurality 29,892.

Glass of Salts Cleans Kidneys

If Your Back Hurts or Bladder Bothers You, Drink Lots of Water.

When your kidneys hurt and your back feels sore, don't get scared and proceed to take your stomach path a lot of drugs that excite the kidneys and irritate the entire urinary tract. Keep your kidneys clean like you keep your bowels clean, by flushing them with a mild, harmless salt which removes the body's urinous waste and stimulates them to their normal activity. The function of the kidneys is to filter the blood. In 24 hours they strain from it 500 grains of acid and waste, so we can readily understand the vital importance of keeping the kidneys active.

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Transfusion of Blood From Chauffeur May Save Archbold.

Tarrytown, N. Y., Dec. 1.—John D. Archbold, president of the Standard Oil company of New Jersey, and active head of the Standard Oil interests, is dangerously ill at his home here, although his condition is somewhat better today than it was twenty-four hours ago.

ENGINEER DEAD ON TRACK, TRAIN RUNS 30 MILES ANYWAY

Phillipsburg, N. J., Dec. 1.—While his engineer, Johnson Shaffer, lay dead on the tracks near Black Tom Island, a milk train on the Lehigh Valley railroad early today ran 30 miles beyond that point before the trainman, Allen Miller, discovered Shaffer was missing.

WELCOME Visiting Merchants

Your trip to Saint Paul at this time would hardly be complete without seeing our excellent display of Spring and Summer Merchandise

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PRESIDENT AT DANCE

Attended Presbyterian Church in the Morning—Day Passed Quietly at Capital.

Washington, Dec. 1.—President Wilson concluded his observance of Thanksgiving day by attending a ball given by the Navy Relief society at the Washington navy yard last night. He and Mrs. Wilson occupied a box. The president spent most of the day quietly with members of his family and participated in special celebrations to which he was invited.

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RIOT AT HONOLULU DOCKS

Stokers From Liner Makura Start Trouble—Police men are injured in the fight.

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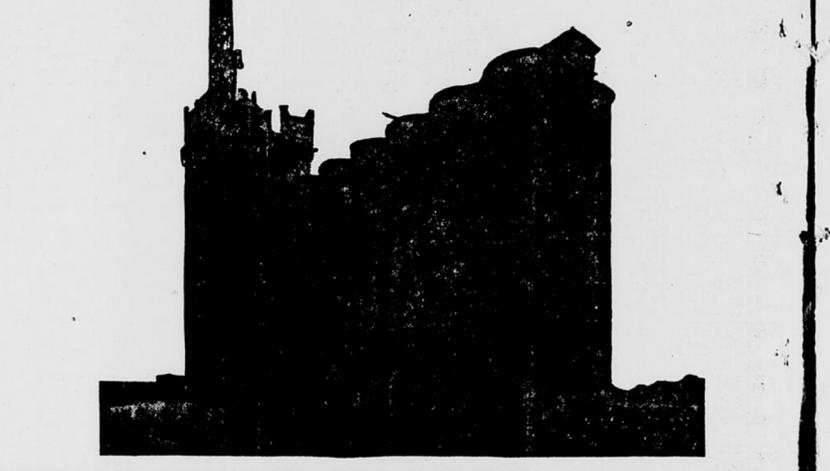
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will welcome you! Do your shopping at the home of the great Farmer Co-operative movement. Special displays in all retail stores. Extra inducements to merchants in the wholesale district.



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