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WATER RESOURCES OF NORTHWEST COUNTRY

Comprehensive Study Made by the
United States Geological
Survey

The Geological Survey has recently issued a valuable publication concerning the surface water resources of the northwestern portion of the United States, the greater part of which is occupied by the basin of the Columbia River. This river has a drainage area of 259,000 square miles. Its source is in British Columbia and its basin occupies enormous areas in that province and in Montana, Wyoming, Idaho, Washington, Oregon and Nevada. The region is one of greatest interest and value.

Few river basins in the country are so diverse. It contains some of the highest peaks in America and some of the most fertile valleys in the world. Some idea of the resources of the basin may be had from the statement that the navigable waters of the Columbia and its tributaries aggregate a length of 2,136 miles. Within the area drained are the largest forests in the world. The climate exhibits all the variations from the rigor of the northern latitude to the mildness of western Oregon and Washington. Agriculturally the area ranges from the extremely arid region, where irrigation is essential, through the semiarid country, where dry farming and irrigation are practiced side by side, to the humid country, which, strictly speaking, is arid during the summer. The

values of the irrigated agricultural land range from about \$30 an acre for the poorest to \$3000 an acre for the intensely cultivated orchards. Within the Columbia River drainage basin at least one-third of the available water in the United States, but development of this resource has scarcely begun.

The study of the water resources of this great region as carried on by the United States Geological survey becomes therefore a matter of importance and interest. Water-Supply Paper 272, of the Survey, which has just been issued, contains a large amount of useful data resulting from the investigations of the streams of this area, including the records of flow of the numerous large tributaries as well as the main rivers. Among these tributaries are Clark Fork, which occupies large areas in Idaho, Montana, and British Columbia, and Snake River, which has its origin in the Yellowstone Park region of Wyoming, traverses long distances in the State of Oregon before it finally joins the parent stream. In addition to stream-flow data concerning the Columbia, the report contains information concerning the water resources of the coastal streams, such as the Rogue, Umpqua, and Siletz, located in Oregon, and the Cedar, Skagit, and Cascade, which drain into Puget Sound. The stream-flow observations presented in this report consists of records obtained at 207 stations. About one-half of the expense of the work is borne by the States of Oregon, Washington, Idaho and Montana, which, under the authority of laws enacted by the several legislatures, cooperate with the United States



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TREATMENT FOR ROUPY TURKEYS.

Wild turkeys are tough as iron; tame turkeys are soft. Inbreeding, ill feeding and breeding for size have reduced their stamina, and they can't stand exposure like their ancestral king of the woods. If not often blown by a blizzard off the sour apple tree, the wind ruffles their feathers, hits them in the chest, and then come colds, catarrh, roup.

The turk in the picture caught its roup from chickens, that caught their



Photo by C. M. Barnitz.

TURKEY HEN WITH ROUP.

roup in a henhouse with a damp, rank earth floor.

Drafts, damp, foul air for roup among the feathered tribe. Roup runs about the same course with turks as with hens.

There's that shaking of head, sniffling, clear bubble on nose, watery discharge from nostrils (cold). Then discharge turns whitish, begins to thicken, face begins to swell, bird starts to breathe through mouth (catarrh). At last the discharge turns yellow, smelly, plugs nostrils, head swells, eyes close, breath rattles, bird stands with open mouth (roup).

Place a turkey with such symptoms in a comfortable place, have an as-



Photo by C. M. Barnitz.

SECTION SHOWING TURK MOUTH CLEFT.

Use a stick to hold the bird and treat as follows:

Dip feather in kerosene and swab cleft of mouth; open nostrils, cleanse with feather and gently press swellings on side of face, and pus will run from nostrils.

Then spray nostrils, eyes, cleft, sores, with the following:

Boric acid..... 1/4 ounce
Zinc sulphate..... 1 dram
Warm water..... 1 pint

Spray twice a day, give a grain quinine pill from three to five nights in succession, according to severity of attack, and season the moist mash with ginger.

We have found no better remedy for colds, catarrh, roup among the feathered tribe than the above.

DON'TS.

Don't catch the broiler fever. You may have a broiler explosion.

Don't forget that private trade is best and in most communities easy to secure and hold if you sell quality.

Don't forget that cabbage must be fed moderately at first, and no new item to the ration should be fed strong at first.

Don't buy cut bone when a cutter can be bought reasonably. Bone is cheap, and you may cut your own and sell to your neighbors at a profit.

Don't use a hatchet on men or ben. A hatchet lick just now and then might knock sense into bullhead men, but it is rather best to keep that old spite hatchet buried deep.

MY LITTLE SISTER

By EDWARD L. SPENCER

I was brought up in luxury, but without father, mother, brother or sister. When I became six years old and was still kept from going about with other boys, nature rebelled against not having playmates, and those who were responsible for me were obliged to make some provision in that direction.

I lived in the house in which I was born, my father having died before and my mother at the time of my birth. I knew nothing about this, being taken care of by a Mrs. Perkins. One day she brought into my playroom a girl about my own age and told me she had a little sister for me. At that age I felt no great surprise as to the existence of a sister, though I remember asking some questions as to why I had never seen her before. I would have preferred a brother, but was nevertheless delighted to be relieved of my loneliness, and from that time forward my life was very different from what it had been.

Lucy was my sister's name, and since we were kept from other children we grew very much attached to each other. I was a fiery little fellow, while Lucy was of the quiescent kind. She was always soothing me. There was a good deal of the boy in me or I might have become effeminate, playing as I did all the while with a girl. I think I did not miss boy associates as much as I would had I not become so much attached to Lucy.

The reason why I was kept so close at home was that my mother, knowing that she must leave me to the care of others, had manifested to Mrs. Perkins, who was to bring me up, a fear that I would learn "badness" from my associates, which she, my mother, would not be with me to counteract. Had it not been for a strong masculine nature in me I would have been spoiled as a result of this motherly timidity. Mrs. Perkins engaged tutors for me and for Lucy as well, and, being educated alone, when we were fifteen years old we knew as little about the world as when we had been just brought together.

It was at this time that Lucy and I began to discuss our situation. Why was it that we had no parents like other children? Why had we never met till we were about six years old? These and other similar questions came up for discussion, and we asked Mrs. Perkins for answers to them. But she evaded giving direct answers, and we were no wiser than we were before. All we could get out of her was, "When you come of age you will know all about it."

When I was in my sixteenth year I was sent to boarding school, where I prepared for college, Lucy being sent at the same time to a girls' seminary. I was dreadfully homesick for Lucy, and she wrote me that she suffered the same for me. During my stay at school there was no one to tell me anything about myself more than I knew. Two years after that I went to college, and the period in which I was born over which seemed to hang a veil began to interest me. I was old enough to make an investigation, but when Mrs. Perkins said I would know all about it when I was twenty-one I preferred to wait. One thing especially deterred me, a dread lest I should find out something I would rather not know.

While I was at college Lucy discovered what was being kept from us, but she did not tell me. I came home one vacation during my senior year at college and met her there. I threw my arms about her and kissed her, as I had been accustomed to do at our meetings, and was surprised to see a blush on her cheeks. I wondered at the time what it meant, but it soon passed out of my mind.

However, from this time I noticed a great change in Lucy's treatment of me. She seemed constrained. I was telling her one day of a girl friend of mine who I liked very much. Lucy looked serious. I persisted in sounding my friend's praises, and Lucy suddenly got up to leave the room. I caught her and, pulling her down beside me, told her that she need not fear for my deserting her for a sweetheart or a wife, for I would never marry and did not see how I could bear to have her marry. This seemed to satisfy her, and she smiled at me through her tears.

I was twenty-one years old a month after being graduated from college. A lawyer had notified me that he would call on me on my birthday, and he did so. Lucy and I were both at home. The lawyer said he wished to see us together and told the secret. My past or most of it has been told. Lucy's was as follows:

Her father died when she was two years old and her mother when she was three. Our mothers were sisters enjoying an undivided fortune. They had arranged that we should be brought up together and for each other. The fact of our being kept in ignorance that we were cousins was that in the beginning of our intimacy Mrs. Perkins had told me she had a little sister for me. She thought nothing of it at the time, but put off telling us the truth till we had grown to an age at which she did not like to disabuse our minds. Besides this, she thought the plan of our mothers to unite us when we came of age would be best served by our being kept in ignorance of the truth.

The will of my mother and of Lucy's mother expressed a wish that we should marry.

And we did.

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