A HISTORY OF THE SANDSTONE CREEK AREA UP-STREAM FLOOD PREVENTION PROJECT

By Annie Lourie Steele*

The Sondstane Creek Watershed Project pionesred flugs control programs in Oklahoms and in the aution. An part of the Upper Washita Conservation District, it set the pattern followed in the entire Washita River watershed. The Washita is unserved as a pattern for large river watersheds throughout the world.

In this new appoach to flood central and soil conservation, the Soil Conservation Service and II' Indowerse in the Sandsize watershed worked out plans to make the carbo the regent. The farmers planted deeproteid games with canaled minfall hith natural underground reservice. They changed to contour ploving and cray rotation, and bailt 480 wills of the contour ploving and cray rotation, and bailt 480 wills of the sould be and the source of the so

Until 1952 few waterways in the nation had more floods mile for mile than Sandatone Creek-an average of nine each year. So much soil was washing down from blooding guilies and eroded hillsides that the creek was filling up half a foot a yest.

Sandatione Creek, a tributary to the Washita River, run through the rolling Red Plains of western Oldshoma. Most of the soils were formed under prairie cover, but some were formed inder mixed grass and shinners. Depth of the soil write form shallow or very aballow to drophy formed soils of athema terms and shiriyon areas. The waterhold, consisting of Out formed in shallow and the source of 1950 and was largely completed in 1962. The Sandatore Creek waterhold like mostly within a through formed by the town of

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Cheymne Stor, February 14, 1963.

Rauders' Digest, June 6, 1858, pp. 135-138 (Condensed from Nertionel Municipal Review. May, 1858) Peter Parb, "A Flood Control Plan That Works."





Sayre, Elk City and Cheyenne, and flows in a northeastorly direction, entering the Washita River about eight miles south. west of Hammon."

Before the advant of the land openings to settlement by pioncer farmers, Oklahoma's western prairies had a top layor of spongy soil held in place by native grasses ranging from a tenuous hold of the short grasses on rough hillsides to dem penetrating networks of ten-foot root systems of blue stem and Indian grass. This layer of natural growth and its humus souked up much of the rain, allowing the rest to flow into the streams.

A large part of Boger Mills County was permanently satisfied during the years 1905 through 1909, when rainfall was plentiful Drought struck in 1910 and lasted three years. Rains hipsord the plains from 1914 to 1930 except for a dry spell in 1917-1918. When the characteristic downpours came, hills that had been turned to propa lost their precious top layer. Runoff down new furrows picked up rich humus and soil nutrients as it made its way to the creeks and rivers.5

The once sparkling water of the Washita took on a brownish color. Bit tans appeared and the springs began to disappear or go dry during the summer. The river became known as the "muddy Washita." This once beautiful river took on a ragged dress of caving banks, silt-filled channels, and dry stream beds, Prequent floods became a serious problem to the farmers along the streams.

Homesteading had required farmers to plow ten acres of every 160. Soon additional acres were broken, and much of this was poor land which should not have been plowed.⁴ By the spring of 1931 plows had broken most of the land in the southern plains and several million marginal acres. Dust storms began in the autumn of 1933 and blew for five years. Many fields lost from two to twelve inches of topsoil. Some fields became sand dunes.²

When the rains came, floods reared down the eroded canyons sweeping away tons of topsoil and burying fields under a layer of ailt. Sandstone Creek averaged nine floods a year with an annual damage of \$60,000. In April 1934 a slorm produced eleven inches of rainfall on the watershed and that of neighboring tributaries, causing the loss of 17 lives near Hammon."

U.S. Department of Agriculture, Soil Conservation Service, MRY 1952, "Where Floods Begin." The Sandstone Creek area is generally located in Roger Mills, Beckham, Custer and Washits counties.

Senator Robert S. Kerr, Lond, Wood, and Water, (New York) First Publishing Company, 1969), p. 65.

^{5 /}bid., p. 61; also, "The Washita, Land Treatment and Flood Prevention," U.S. Department of Agriculture, S.C.S., Stillwater, Okluboria. November, 1954.

⁶ TMM

⁷ Kerr. ov. clf. p. 67.

⁴ U.S. Department of Agriculture, op. ck., p. 2.

Out of such ordenis came an awareness of the need for notion and the decision by farreness and townscepele to acket leadmind advice and assistance in looking for a solution to their problem. In the early 1930's group of leaders along the Washika River fast realized the urgency for taking steps to reduce the floading result, mainly of the efforts of this group. Competence in 1333 gatherized the Department of Agriculture to survey the problem and needs of the ares."

In 1944 Congree passed a flood control act authorizing the Surveys of Agriculture is undertaken works of improvement for prooff and waterflow relatedation and soil ension, prevention in elsever watershoch in the United States, the Washing being one of them, Soil Conservation Districts and the Soil Conservation of them, Soil Conservation Districts and the Soil Conservation program was to consider problem and not sool of one active creek watershoch. As a result, the Washing Nicer was divided into 64 answedersholds for planning purposes.¹⁴

Sandatone Creek was the first esterated to be completed uing the concept of a contracted program of last treatment and upstream distention, newron's for flood costed. Land improvement included termose, field diversions, nover compling, provement and the start of the start of the start of the provement included termose, field diversions, nover compling, facting of pressiond, building fram pends, and instructed range management. The mechanical structures were primarily detention reservoirs and gally plags. These plags, which themselves were stall reservoirs, showed the number of the theory of the stall reservoirs. In devise, the prime of the theory which and startform balance over the publics.¹¹

The success of this first flood centrel project on Sandatore Ceeke proved to be dramatic. In addition to culture and evation and practically eliminating flood damage, many other bernfish have been, and will continue to be, realized: irrigation of field corep and gardens, a dependable supply of water for brancki, increased land wate, increased production, popularity for the development of recoursional sense, fissing and will brancki, program and the second sense of the land of simult boards of farmers fighting the seconge of flood with little dama and tennees, flatking trobbe at its source -...²¹⁴

^{* (}bdi. p. 3.

¹⁰ fbid., p. 10.

¹¹ Charles Straub, "Little Dama Stop Big Floods," The Farm, Vol. 19 (1954), USD., S.C.H. Reprint.

^{1:} U.S. Department of Agriculture, op. cit., p. 11.

The U. S. Department of Agriculture gives much of the eroll for the success of this project to those people who comagithe land. No technical program of such magnitude had been alternized in the history of American agriculture. The teachening of the program rested on local groups. Local action was required in that any middaed waterhead development. Locally planned, canonating and other means were required to create a public the soil conservation practices was the inflormer's jub, and community were required for construction sites. The success reclaimer that depended on the people who owned the land."

The outstanding conservation embryosit, kay leader and pokeman for the Sandtone Cock project in the Upstream Flood Prevention and Watenhed Development Pregram has been flood Prevention and watenhed Development Pregram has been duried thirty years ago. One who knows him well, writes of him: "His close suspection with the economy of an agricultural commonity mode him sailure that the modely floodwaters of the who were flooded, but that the modely modewater of the who were flooded, but that the modely water was the life blood of the country and that such distantors wates was the life blood of the country and that such distantors wates was fast destroying the wealth of his community."

When he beame president of the Security State Baht of Chargene, Mr. Males pat the resources of the bank behind a conservation program. His bank bought invancing equipment, to do the job. Through the years, Mr. Malas hes written letter to do the job. Through the years, Mr. Malas hes written letter Southeas Coreb is and the completed upstream written shed in the world and its effect on processing flooding of larm and in Oklahoms. This has encouncing of other waterhold program.

¹⁴ The Elk City Daily Ness, Priday, June 7, 1963, p. 1: The Cheyenne Siar, Thunday, August 26, 1965, p. 1.

over the country.¹⁴ The following excerpt is from a letter written by Mr. Makes for R. C. Longmire, President of the Washita Flood Prevention Council:¹⁵

It grows more difficult cash days to kell has a few words the economic perifies of the weak-hold program to all uncertainty. We have the perificial the second seco

Another bonss keneft is recreation. While back merceation is something as has been drawned about in Child ory area and new something as has a something of the something of the certist who can afford in have them. Almost any versend, at lead a handred can suff be partied acrowed just two of theme memory. Near one of these takes two country stores are prosper where only one could childred the source and the source theme memory. And de-takes taking themas per year.

Our dream of an area with the hills in waving grass and the bottoms protected from floads and postucing selectantly from intensilied familing with a pool of besuitdi aparking water here and there is molidity becoming a reasity. What is done for people package is the boollocal resources here gone from about \$100,000 at the law mark in the dirty thinks up to marky \$50,000 in Dreamster of 1863.

> L. L. Males, Secretary Washita Flood Prevention Council

In addition to its proximity to the famous Sandstone Creek Project, Cheytonne in Roger Mills County is the center of a region stocgod in historical interest. This section of the slate for Zamy ages was part of the background against which moved a Vast panotama of colorul and demantic events.

Prehistoric people who lived in what is now Western Oklaboma, perhaps as long ago as 10,000 to 15,000 years, hunted minuals now extinct, and lived in caves or holes under rock fedges. They probably journeyed out along streams, yaulleys and Canyons where vester, as well as abundant game and wild plants, Were available.¹⁴

The Grant Plains made for easy entry from the southwest and from the north. For thousands of years Indian tribes moved

^{15 &}quot;The Washits, Land Treatment and Flood Prevention," Ioc. oft, 1961.

¹⁶ A. M. Gibson, "Prehistory in Oklahoms," Chronicles of Oklahoma, Spring, 1965.



(DEDA-SCE Photo by Perryman, 1962)

YOUTH RANGE CAMP Group picnicing near Dead Indian Lake, Upper Weshila River.



(USDA-SCS Photo by Whittinston, 1935)

EXAMINING HEIGHT OF GRAIN SOROHUM is test of feed per acre. Peed in came field not integrated was not worth cutting. across the area in seasonal migrations. Traveling on foot and taking with them their families, dogs, shelter, and such vespoes and utensils as they possessed, many plains. Indians requisity followed the biom herds northward and southwards as boy grazed on posturage of natural grasses. During the 16th and 17th conturies, Spanish introduction of horses among these tribes increased their mobility and thus increased the frequency and scient of tribal mids.¹⁷

Spaniah explorers in the aiteasth century, later Franch-Inelian trappers and hunter, and still later, Anterian explorers, trading repositions, emigrants on the California Road were all visitors in this later. In the California Road were all trapper and the later of the California Road were all the instacks, and the instalen county. They reliad the instacks, and the instalen county. They reliad the instacks, and the instale were labourded by more dissistors was. Finally, the trastice of 1897 with the governpensichle boundminst. In 1868 Treliads Count at the bountion of mean-tain housing the the trastice of the postion of the transmission of the labourd by the second of mean-tain houndaries for the posthern Chaygene and Angubo in Wettern (Okahoma 1

One impressive scene in this area is that of the Anticlope Hills, thity might northwest of the county next. These bills are made up of compissions imgular packs that rise out of the phina and were cone a knobatet for the intervisional boundary between the United States and Mexico.¹¹ They were also a familiar sight to knowless along the Collisional Boad, fatt used in the spring of 1848 by gold-secken under a military secont commanded by Capping R. B. Marcy 2^{12}

According to Mr. Kent Ruth, "When white men first lness the Antelope Hills, the vicinity was the favorite home of the Comanches. Here they sought refuge following marauding foreys into Texas and Mexico, and here should soldiers seek them, they were certain to be found in large numbers."¹³ Just northwest of

¹⁷ Edwin C. McReynolds, Oklahoma, A History of the Sooner State (Norman: University of Oklahoma Press, 1994), pp. 13-17. 18 John W. Morris and Edwin C. McKeynolds. Nitorical Atlas of

b John W. Morris and Edwin C. McReynolds, Mintorical Atlas of Oklahoma (Norman: University of Oklahoma Press, 1965), Numbers 6 to 22.

¹⁷ Oliver LaFarge, The American Indian (New York: Golden Press, 1960), p. 140.

¹⁰ Edwin C. McReynolds, op. cit., p. 240.

¹ Kent Ruth and Others, Oklahoma, A Guide to the Sooner State (Norman; University of Oklahoma, Press), p. 458.

¹² Okiahoron Historical Scelety, Historical Marker at Junction of U.S. 281 and B.E. 47.

²³ Kent Ruth, op. cit., p. 459.

the Antelope Hills on Little Robe Creek is the site of a spectacular Commence battle with Texas Rangers under Col. John S. Ford in $1858.^{21}$

Two miles west of Chopenne a granite marker commonousless the Battle of the Wanhita. Here in the winter of 166 Colonal George A. Cutter that his catalary item Fars Supply to the Washita Kettle encomposed of Chocomes A. The days before, Black Kettle and winted General William B. Haacn at Fort Cobb to a protocols for the trile within the grane into winter como on the Washita. On the smooting of November 27 a lerver snow ownered the granual. "Catalary income sweept into canom, killing the start of the start of the start of the start of the start The Chopenne's horses were gathered up and shet. Their equipment and providence were barned."

Black Kettle Museum in Chayerne diaphys weapens, reliev, and printed materials which integret the historical significance of this overst. Black Kettle District of the Panhandle National Gransbrack was also named for this Chayerne Indian chief. A first of 30,855 acress acquired by the U.S. Department of Agriculture during the data box days was later tunned over to the twintor security could be the State of the grant break dation of the source acquired by the U.S. Department of Agritention security could be data box days and the source of Review. Both here facilities for earning, swimming, loading, and fishing.⁴⁴

Settlere in this western country in the early 1890's remember hearing the distance based of lands a draws along the Washitu valley every right blooging the summer months and into the Bill. At first they fold some based on the intermeters.¹ There was no danger of war, for Worksh had continued or Yumer, toid of a vision is which the Great Faster promise that the white man would go serve, and bufflo would apply come to larger both, the had been rightly or motive the the white man would go serve, and bufflo would apply come to larger both, the had been risker to the ways of the white man. They danced the Ghost Dance and sare the negativity every risk point of the more risking.

i+"Abbelope Hills. Landmark to Travelers a Century Ago", The Dally Okiahoman. April 23, 1939, p. 43. 13 John Choes, "Custer Ambushed Cheyennes Bi Years Ago."

²¹ John Clubes, "Cunter Ambushed Cheyennes Bu Years Ago," Oklahoma City Times, November 27, 1858, p. 5.

^{24 &}quot;Battletteld Nunting Grounds," Ottehoma Wadit/e, July-August, 1985, pp. 6-9.

^{17 &}quot;The Bun in the Short Grass." The Daily Okinhoman, April 16. 1961, pp. 4-5.



String was given up within a few years under great disappointment after Apiatan, a Kiowa, was sent to investigate the source of the doctrine and found it false.31

With the opening of the Cheyenne-Arapaho Reservation to white settlement, April 19, 1892, came the landseckers to build their soddies, dugouts, and picket houses. Augusta Metcalfe as a little girl came with her family to western Oklahoma from Kansas. She now lives on a ranch in the Washita valley, not fan from the Antelope Hills. Mrs. Metcalfe is known as one of Oklahoma's leading artists and internationally known as a painter of western life. In oil paintings, watercolor, and ink sketches the has recorded this sags of the men and women who came to find homes at the time of the Chevenne-Arapaho Run or in the years that followed.21

Parts of this former Cheyenne-Arapaho land lay in the path of the Great Western Cattle Trail, where in 1877 an estimated 201.159 head were pushed up the trail to Dodge City, by Texas drivers 10 When the Reservation was thrown open to settlement by run on April 19, 1892, it was far from railroads and considered almost too arid for agriculture. Hence about 2,000,000 acres in the western half of the reservation remained in use of ranchmen for several years.³¹ Today ranching is still a profitable part of the agriculture industry of that country. Local interests and activities that reflect these influences include the annual rodeo, enjoyment of the square dance, the "Cowbelles" annual meeting in the home of Mrs. Daisy Dunn, and the Old Settlers' picnic at Grand.

Success of the Sandatone Creek Project has drawn worldwide attention to Western Oklahoma. Chevenne's residents are accustomed to foreign visitors, and turbana no longer get a second look along main street. In the same week groups came from India and Indonesia. Visitors have included delegations from fifty foreign nations and all fifty states, United Nations tours, groups of overseas farmers, bus loads of bankers, farmers, and county agents.¹²

²⁴ Muriel H. Wright, A Guide to the Indian Tribes of Oklahome,

⁽Norman: University of Oklahoma Press, 1865), p. 45. P Meiven Harrel, "My Life in the Indian Territory, the Biory of Augusta C. Metcall," The Chronicles of Oslahoms, Vol. XXXIII (1960). 14 John W. Morris and Edwin C. McReynelds, Historical Atlan of

Oklahoma (Norman: University of Oklahoma Press, 1985), pumber 40.
i Edwin C, McReynolds, Oklahoma, A History of the Sooner State

⁽Norman; University of Oklahoma Press, 1954), p. 299.

¹² Pred Grove, "Sandstone Creek, International Example." Oklahome Today, Autumn 1964, p. 23.