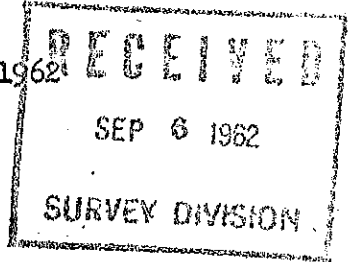


Oklahoma State Highway Dept.

Date September 4, 1962



To Mr. Gaines H. Stout

From Rees Day Moran, Jr.

Subject SWO 1900 (1) - SH 28 - Mayes County
High Water information - Rock Creek at Sta. 235+00 - Culvert at Sta. 357+87.6 -
Cabin Creek at Sta. 396+93.4.

The following information on the above subject has been obtained from extensive field work.

Rock Creek at Sta. 235+00;

Extreme High Water Elev. = ^{635.6} 635.6 feet which occurred in May, 1943. Elevation obtained from water marks still in place, inside of barn located approximately 1200 feet southeast of present Rock Creek Bridge. Mr. O. E. Neal, Rte. 2, Adair, Oklahoma showed us these water marks. Mr. Neal has been a residence of this area since 1945. Said this is the highest level he has ever known this creek being. This high water was caused from heavy rains up stream which occurred at the same time as Grand River was flooding. Grand Lake was also filled to capacity and all flood gates were open. Back water from Grand River was the main cause of this extreme high water which slowed down the flow of Rock Creek.

Extreme High Water Elev. = 634.4 feet which occurred in May, 1943. Elevation obtained on the ground at a corner fence post of a garden fence approximately 500 feet south or right of Sta. 226+00. This information obtained from Mr. L. F. Hawley, Rte. 2, Adair, Oklahoma, whom lives on the premises. Mr. Hawley bought the place in 1950 from Mr. C. C. Koger, who no longer lives in this area, however Mr. Koger who had lived there in 1943 during the flood showed this corner post to Mr. Hawley as the highest elevation this creek has ever been. Cause of this high water was from back water from Grand River, same as described in the above paragraph.

Normal High Water Elev. = 627.12 feet which occurred in 1951. This information obtained through Mr. Jim Ross, whom was on traffic watch during this flood, however he does not remember which month it occurred. This elevation caused from heavy rains up stream and not caused from back water from Grand River. Mr. Roy Bigham said he had no information on the high water, that he went with Mr. B. G. Green and Mr. Jim Ross on July 23, 1962 to obtain the elevation.

Normal High Water Elev. = 626.3 feet. This elevation established by Mr. O. E. Neal, Rte. 2, Adair and by Mr. L. F. Hawley, Rte. 2, Adair. Both men stated that the normal high water nearly touches the low steel on the present bridge.

Culvert at Sta. 357+87.6:

Extreme High Water Elev. = 637.7 feet which occurred in spring of 1957. Obtained from Mr. T. R. Lawson, Rte. 1, Big Cabin who has been a resident of this locality for the past 45 years, and has lived in the immediate area for the past 18 years. Normal High Water Elev. = 632.7 feet as established by Mr. T. R. Lawson. Mr. Lawson states that the box is too small, that every time it comes a hard rain the water elevation reaches approximately the top of opening of the present culvert. Back water from Grand River does not effect the high water on this culvert.

9/6/62 - NOTE - THIS REPORT TO SUPERSEDE SAME REPORT DATED 8/27/62 - COPIES FORWARDED TO:
 POWELL, MCCAULEY, MCCULLOUGH, BYERS, MARKHAM FERRY RESERVOIR & MAYES CO. FLOOD INFORMATION
 THE SURVEY DIVISION, FROM SURVEY INFORMATION ON US 69 & SH 28, ASCERTAINS THE FLOWLINE GRADIENT
 OF ROCK CREEK TO BE 7.04' PER MILE. STOUT.

Oklahoma State Highway Dept.

Date

To

From

Subject SWO 1900 (1) - SH 28 - Mayes County - High Water Information.

Culvert at Sta. 357+87.6:

Extreme High Water Elev. = 637.2 feet which occurred in May, 1943. Obtained from Mr. Harry Wheeler, Rte. 1, Big Cabin, Oklahoma, who has been a residence of this area for approximately the past 55 years. Caused by extreme heavy rains up stream.

Big Cabin Creek at Sta. 396+93.4: ^{640.67}

Extreme High Water Elev. = 641.7 feet which occurred on May 23, 1943. Obtained from Mr. W. V. Wheeler, Rte. 3, Vinita, Oklahoma, whom has been a resident of this area for approximately the last 55 years. Is a brother of Harry Wheeler. This high water was caused from back water from Grand River and heavy rains up stream which slowed down water run off from Cabin Creek.

Mr. W. V. Wheeler said the creek covered the road in 1951, however he could give no definite data on this elevation. Said that normalcy during heavy rains the creek will obtain an elevation of 627.0 feet.

Mr. Harry Wheeler, Rte. 1, Big Cabin, Oklahoma also confirmed the extreme high water elevation of 641.7 feet.

The attached kodak picture was taken on May 23, 1943 and is owned by Mr. Harry Wheeler, Rte. 1, Big Cabin, Oklahoma. This picture is borrowed from Mr. Wheeler. Please return this kodak picture so that I can return it to him.

Normal high water Elev. = 635.45 feet which occurred in 1951. This information obtained through Mr. Jim Ross, State Highway Employee whom was on traffic watch during this flood. This high water was caused from heavy rains up stream, and not from back water from Grand River.

As noted above there is 8.4 feet different between the normalcy high water elevation of 627.0 feet and the elevation of 635.45 feet. The elevation of 627.0 feet occurs frequently during heavy rainy seasons. The elevation of 635.45 feet would be classified as an extreme normal high water elevation since no other elevations or information has been found which exceeds this elevation except the flood which occurred in 1943.

Reference to copy of high water elevations received dated August 14, 1962, as compiled by W. R. Holway and Associates, Tulsa, Oklahoma. The high water elevations on Rock Creek and Cabin Creek are as follows:

Rock Creek - An elevation of 625.1 which occurred in 1941, approximately 3.5 miles down stream from the present SH 28 bridge across Rock Creek.

Cabin Creek - An elevation of 630.8 which occurred in 1941, approximately 3/4 mile down stream from the present SH 28 bridge across Cabin Creek.

It has taken considerable time and effort to obtain this high water data due to the scarcity of people in this area who have definite knowledge of the high waters which have occurred in the past years.

This letter will supersede my letter dated August 27, 1962 pertaining this subject.