

REPORT OF FLOOD CONDITIONS
AT PHOENIX

SUMMER OF 1951

FILE 11154

DEPT.	ATTEN.	
DESTROY <input type="checkbox"/>		
FILE		MONTHS

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 P. O. Box 3588
 Phoenix, Ariz.
 October 8, 1952

Mr. Lewis Nesbitt
 Buckeye, Arizona

SUBJECT: Water tanks

Dear Sir:-

In reply to your letter of August 25, 1952 authorizing us (Caterpillar Tractor Co.) to open tanks built by us, per Indemnity Agreement dated in the year 1948 on property leased by you and described below, we are pleased to submit the following report:

The tanks under consideration are located in Township.2 North, Range 3 West, Gila and Salt River Base and Meridian, Maricopa County, Arizona.

Construction of the tanks is covered under United States Department of Interior, Grazing Service Permits #184, 185 and 186, "To construct and maintain improvements in grazing, District #A3, State of Arizona".

Permit #184 provides for construction of an earthen reservoir on the approximate SE $\frac{1}{4}$ of Section 25. A borrow pit was constructed, below grade, forming a water tank. Due to a gradual buildup of sediment since the pit's existence, the bottom level has risen to approximately the original grade. The upper photograph on Sheet "A" shows the present condition of the pit. No alterations were made at this time.

Permit #185 provides for construction of an earthen reservoir on the approximate NE $\frac{1}{4}$ of Section 13. The lower photograph on Sheet "A" shows the cut made on the east bank of this tank, preventing run-off water from building up in the tank and enabling its escape along its natural course.

DEPT.	ATTEN.	
10-8-52		
DESTROY <input type="checkbox"/>		
File		MONTHS

Mr. Lewis Nesbitt

Permit #186 provides for construction of an reservoir on the approximate NE $\frac{1}{4}$ of Section 24. photograph on Sheet "B" shows a cut made on the down-stream side of this tank preventing water storage and allowing run-off water to escape in its natural course.

We appreciate the opportunity you have afforded us in opening the above described tanks to the original water courses.

Very truly,

CATERPILLAR TRACTOR CO.

Supervisor
Research Dept.

FEKronenberg
hg
enc.

Buckeye, Arizona
August 25, 1952

File 11154

Caterpillar Tractor Co.
P. O. Box 3588
Phoenix, Ariz.

Atten: Mr. F. E. Kronenberg

SUBJECT: Water tanks

DEAR SIR:—

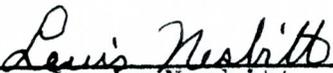
You may use this letter as authority for removing (or opening the original channel thru) 2 water tanks located in Township 2 North, Range 3 West, Gila & Salt River Base & Meridian, Maricopa County, Arizona. The tanks were originally built by you (Caterpillar Tractor Co.) and are covered under United States Department of Interior, Grazing Service Permit #184, to construct and maintain improvements in grazing, District #A3, State of Arizona.

The above described work was indemnified between myself and Caterpillar Tractor Co. in an Indemnity Agreement dated in the year 1948.

Recently you requested reopening the original water courses thru the above described water tanks. You may use this letter as authority for doing the same.

Will you please forward a report to me at the completion of your work on the aforementioned water tanks.

Very truly yours,


Lewis Nesbitt

CATERPILLAR TRACTOR CO.**Peoria Office**TO Engineering DepartmentDATE October 19, 1951ATTN. Mr. G. E. Burks

DATE RECEIVED	
OCT 23 '51	
DEPT.	ATTEN.
	LEB JEB
	JWS JWH
	CAG CH
	RRR AHL
ANS. RES	DATE KLM

You may have heard some talk about the unusual amount of rainfall at Phoenix this summer; since it was out of the ordinary and to some extent affected the Arizona Proving Ground, and since we have all been concerned regarding the possibility of building a structure which might become a hazard, a report on the event was compiled by Len Wolniak.

Milt suggested that you might be interested in a glance at the report, and might want to route it to other interested parties in Engineering. Those fellows who visited out there during the usual dusty periods would probably be surprised to know it is possible to have rain in Phoenix!

We would like to have the report returned when you are finished with it.

K J Mason
Research Department

KLMason
fjc

CATERPILLAR TRACTOR CO.**Peoria Office**

Phoenix, Ariz.

TO PEORIA, ILLINOISDATE Sept. 11, 1951ATTN. Mr. P. H. Spennetta,
Research Dept.*We would like to have
this for our history
file.*SUBJECT: Rainfall & floods at the Arizona
Proving Ground (July 27 to Aug.
30, 1951).

DATE RECEIVED		
DEPT.	ATTEN.	
RES	KLM	
ANS.	DATE	

Rainfall during the past month in Phoenix, Arizona and generally throughout the state of Arizona caused considerable damage to roads, farm lands, railroads and private homes. This report is being written to record the condition of the Arizona Proving Ground and the effect of the rainfall on the community in general.

Rain fell in three (3) different periods. The rain that fell at the Arizona Proving Ground is noted below:

<u>Date of rainfall</u>	<u>Inches of rain</u>
7-27-51	1.65
8-3-51	2.29
8-27-51	.45
8-28-51	3.2
8-29-51	.79
8-30-51	.82
	<u>9.20</u>

As can be seen above, we had three (3) major rainfalls. The first rainfall of 1.65" on 7-27-51 was insufficient to fill the major tanks at the Proving Ground. (See sketch on Sheet "A" showing plan view of all major tanks and dikes at the Arizona Proving Ground.) Generally this rain caused the following collection and flow of water on Proving Ground property:

SECTION 7:

The large tank in the northeast corner filled approximately 50%, (See Photograph #1 and 5, Sheet "B"). After the third rainfall the water level was 6 ft. from the tank spillway.

SECTION 18:

The rock tank, by the old shop area, filled to 1 ft. of the spillway, (See Photographs #2 and 3, Sheet "C"). After and during the second rainfall this tank spilled as shown in Photograph #4, Sheet "D". This tank also spilled for three days of the last rainfall. The spillway cut down 6" to solid rock. The water from

Mr. P. H. Spennetta

9-11-51

this spillway enters tanks in Sections 19 and 20. Some water enters the rock tank from the spillway of the stock tank west of Section 18. This stock tank almost flowed over (See photograph #6, Sheet "D") because the spillway was raised to provide a road for running track link test tractors. Fortunately, this was discovered and the spillway was cut down to avoid disaster. Subsequent rains permitted water to flow out of the spillway.

The caliche tank in Section 18 filled divisions a & b with water that flowed in from the spillway of the stock tank west of Section 19, (See photographs #7, 8, 9 and 10, Sheets "E" and "F"). Subsequent rainfall filled divisions a, b, c & d of the caliche tank as shown in photograph #11, Sheet "G". There was sufficient water in the caliche tank to permit the tank spillway to flow water (a negligible quantity of water flowed out of this spillway - probably not more than 1 hour of flowing), See Photograph #20, Sheet "G".

SECTION 19:

The multiple tank in Section 19 had water in the south division of it. See photograph #12, Sheet "H". After the third rainfall the water level was within 6" of going over the spillway. The other divisions of this tank had no water because the inlet channels have never been cut (tanks are not complete as yet).

The pond east of the multiple tank was full and spilled water during the second and third rainfall. The inlet to this pond is the spill from the rock tank in Section 18. The outlet water from this pond spills over into Section 20, (See photograph #13, Sheet "H")(the tanks (2) west of the shop area).

SECTION 20:

On Aug. 28, at approximately 3 A.M. the division dike (which is intended to back water up and send it thru its natural channel) broke and permitted rapid flow of water around the shop area dike. At approximately 9:30 A.M. the dike was repaired and water then was forced to flow its natural channel (dip in south boundary road of Section 20). We are taking steps to reinforce the dikes around the shop and have cut a spillway in the division dike to take 50% of the water and flow it into the east pond in Section 20.

A huge quantity of water flowed out of the spillway in the southeast corner of Section 20, (in front of the shop). This water was mostly water that was collected by the ^{Water} District Dike, (however, considerable water flowed out

Mr. P. H. Spennetta

9-11-51

this spillway when the division dike broke). The spillway cut the road 2 ft. deep and the motor grader was the only vehicle that could ford the spillway.

SECTION 30:

Considerable soil erosion occurred in Section 30, starting from the spillway of the stock tank west of Section 30, adjacent to the base of the 13% grade. The stock tank filled with water at the first rain and spilled over, (See photograph #14, Sheet "J"). See photograph #15, Sheet "K" showing eroded spillway after the second rainfall. This water travelled east and spread out for approximately 1/8 mile, knocking down many trees and cactii. We feel that this excessive water flow could have been lessened if we had cut a spillway into the borrow pit at the base of the 13% grade. With the present design, we have eliminated the flow of water thru channel X, Sheet "A", Section 30. We plan on cutting a spillway from the stock tank to the borrow pit at the base of the 13% grade and then cut spillways to permit equal water flow thru channels X and Y. We also plan on setting up a dam somewhere in channel Y. See Photographs #16 and 17, Sheet "L" showing eroded east boundary road after first rainfall, caused by water flowing from stock tank west of Section 30.

The two tanks in the southeast corner of Section 30 performed very well. They filled 100% at the first rainfall and refilled and spilled each succeeding rainfall, (See photograph #18, Sheet "M").

SECTION 31:

No water was stored in Section 31 except in the southeast corner where the spillway did not function properly and the road washed away when the water flowed over it. (See photograph #19, Sheet "M".) This is not serious as the water still flowed in its original channel. We shall rework this corner to assure spillway flow.

Sheet "A" shows all the dips (spillways) in the north, south and east boundary roads and a notation is made showing the depth that the spillways cut down by water flow.

To give the reader some idea of how this rainfall affected the community in general, Sheets "N" thru "AA" show newspaper clippings of the flooded locality.

In all three rains, all of the area west of the Agua Fria River was affected to some extent. The last rain was most severe. Luke Field Air Force base, due east of our Proving Ground was 100% under water and closed

Mr. P. H. Spennetta

9-11-51

for approximately 3 days. Litchfield Air Facility in Goodyear was under 2 feet of water.

Residents of Westwood Manor, in Goodyear, had as much as 3 feet of water in their homes. This water came from the canal 1 mile south of Litchfield Park and flowed down Litchfield road at a depth of 18".

The county road from our property to Pugh's corner, (Ave. "J") and at times to Litchfield Park, was under water. We spent a week after each flood putting the $3\frac{1}{2}$ miles of road back in. The road washes out about 1 mile east of here to Pugh's corner. The water that washes out this road does not come from our property, it comes from the fields and off the roads running north and south. Each road running north and south acts as a river. The county supervisor (Dave Kimbal) has expressed his gratitude to the company for our part in working on this county road.

Needless to say, these rains and floods have effected our operation. On Aug. 3rd two complete shifts were absent because of the muddy and washed-out road (Ave. "J"). On Aug. 28th 3rd shift did not work and most of 1st shift was absent. For several days the only way that travelling could be done between Pugh's store and the shop was by means of the motor grader. Generally we took two (2) scraper loads of rock and a dozer to fill large holes in the road so that the road could be kept open for shift changes.

These rains were the heaviest ever encountered at the Arizona Proving Ground. We feel that the new tanks being constructed in Section 19 (multiple tanks) will handle all the water that flows from major washes (inlets) up to about 6" of rain.

We must alleviate the excessive flow of water from the stock tank west of Section 30, possibly install a new dam in the center of Section 30. With these two changes to our dam designs, we will run no water across our property if another rain of the above nature hits us again.

Damage to neighboring property was extensive; crop loss and damage was over 1/2 million dollars. Because of the great damage, all land owners are again concerned with flood waters and are getting together to discuss the possibilities of doing something to trap or channel floodwaters so that they will not cause damage. Possibly we shall be asked if we will lend a hand in building dams to deter flood waters which ran off and around the White Tank Mountains. Sheet "BB" shows a newspaper clipping which points out that the locality is very much interested in flood control at this time.

Mr. P. H. Spennetta

9-11-51

We feel that our system of dikes and channels have performed well under this severe test and the water flow off our property was not damaging to neighboring property.

L. J. Wolniak
Research Dept.

L. J. Wolniak
hg
Encl.

B

photo #1



TANK IN SECTION #7 AFTER FIRST RAINFALL (viewing S.W)

Photo #1 - Tank in Sec. 7, (looking Southwest) after first rainfall.

B

photo #5



TANK IN SECTION #7 AFTER FIRST RAINFALL (viewing North)

Photo #5 - Tank in Sec. 7 after first rainfall (looking north)

c

photo 2

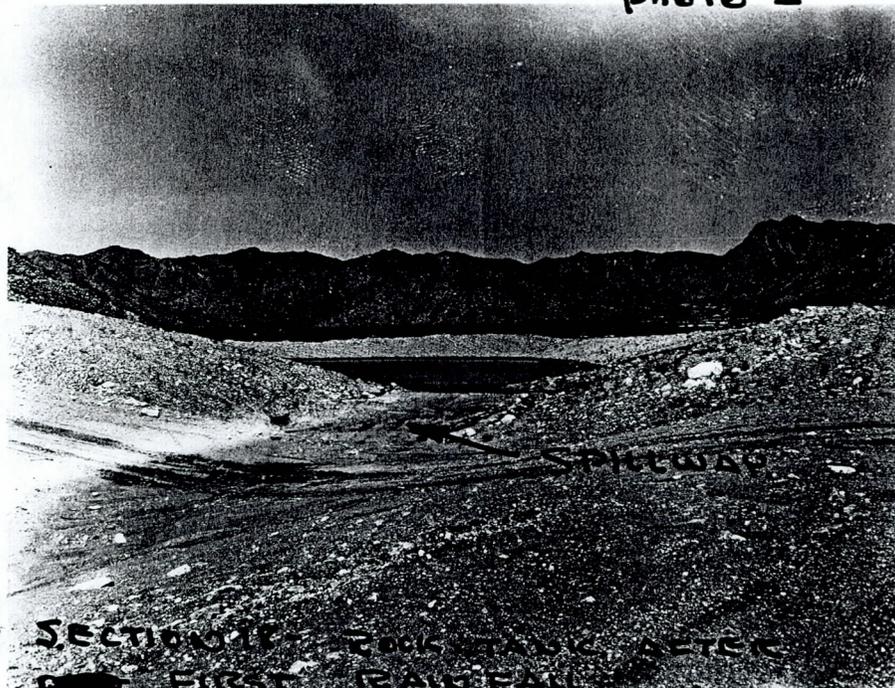


Photo #2 - Sec. 18 - Rock tank after first rainfall

c

photo #3

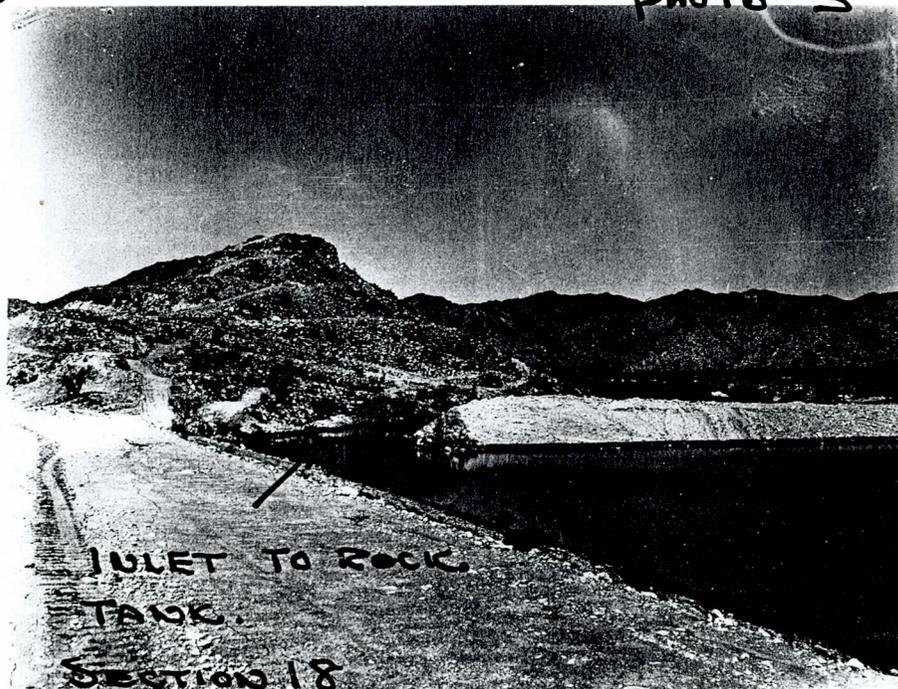


Photo #3 - Section 18 - inlet to rock tank.

D

photo #6



Photo #6 - Stock tank west of Sec. 18

D

photo #4



Photo #4 - Sec. 18 - Rock tank spillway after 2nd rainfall

E

photo 8

spill way from stock tank to caliche tank

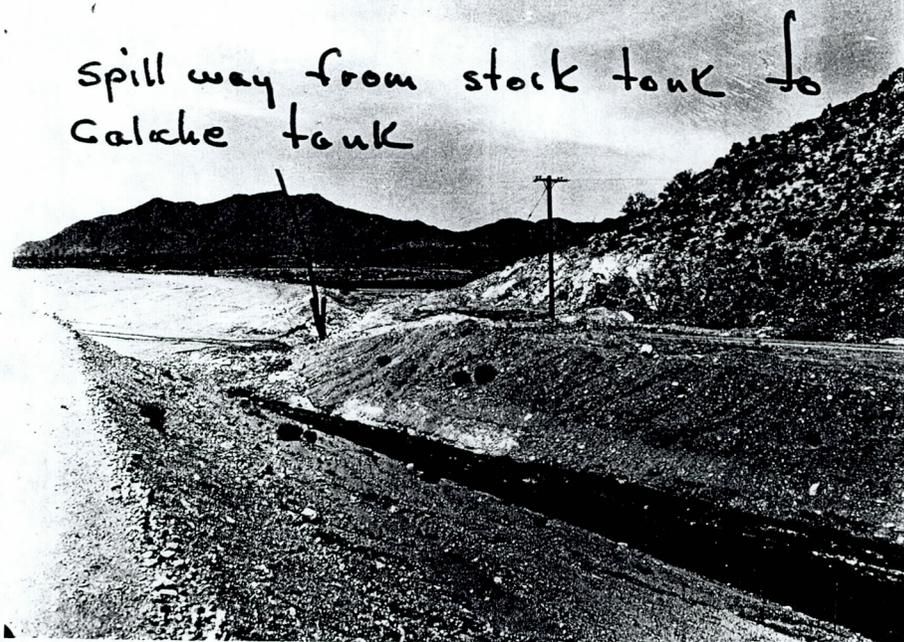


Photo #8 - Spillway from stock tank to caliche tank

E

photo 7

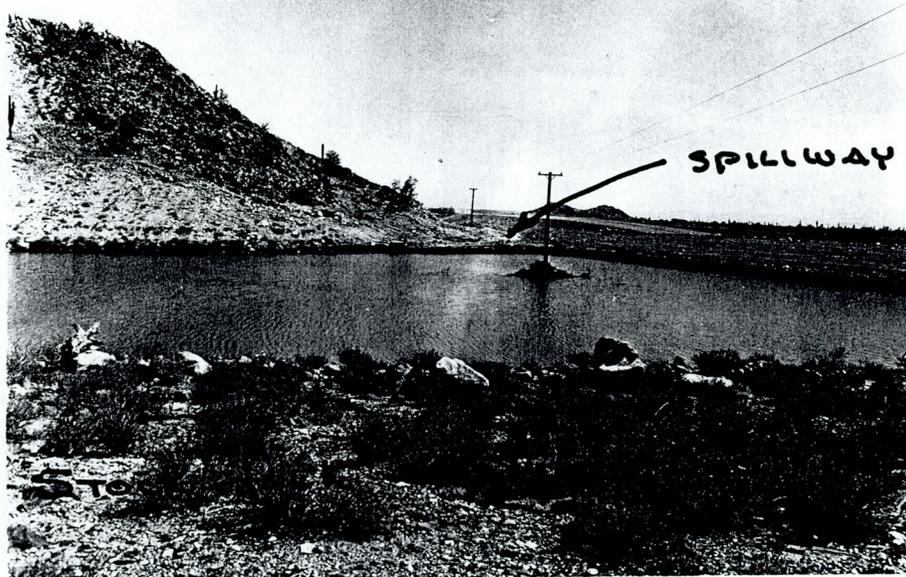


Photo #7 - Stock tank west of Sec. 19

F

photo 10

CALICHE TANK SHOWING DIVISIONS
a & b filled after the
second rain fall.



Photo #10 - Sec. 18 - Caliche tank showing divisions
a & b filled after the second rainfall

F

photo 9

spillway from stock
tank

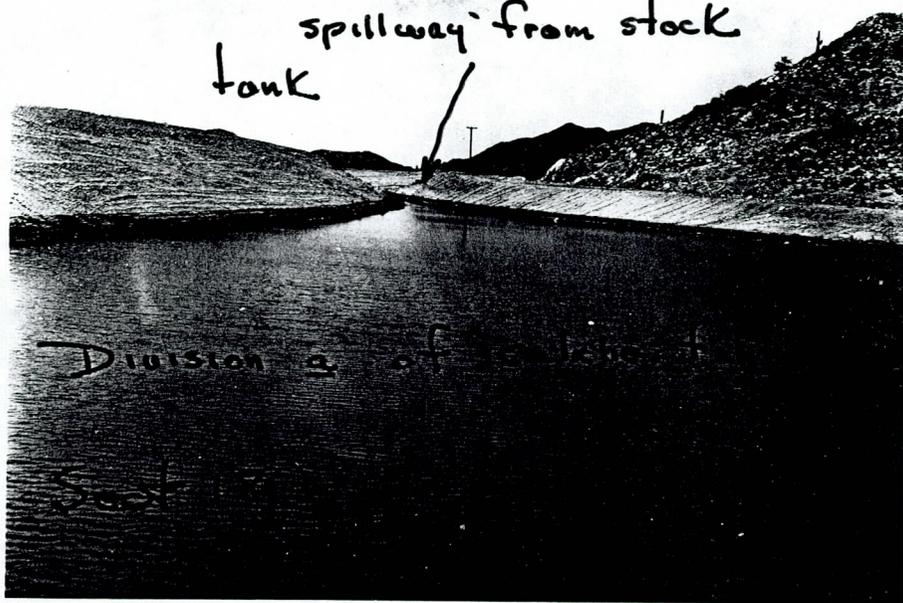


Photo #9 - Sec. 18 - Division a of caliche tank - spill-
way from stock tank

6 Photo 20
Spillway from caliche tank (Sect. 18)
which runs after divisions a, b & c fill.



Photo #20 - Spillway from caliche tank (Sec. 18) which runs after divisions a, b & c fill.

6

Photo 11
SECTION 18 - CALICHE TANK
AFTER 3RD RAIN FALL

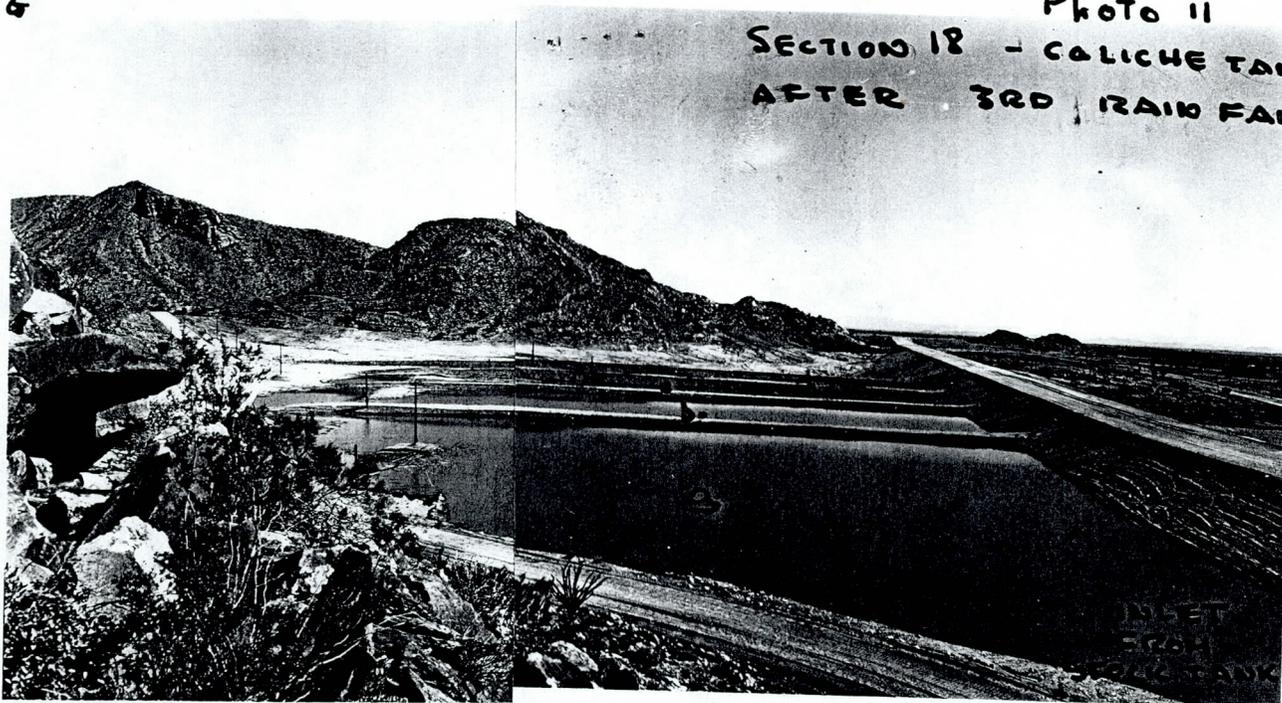


Photo #11- Sec. 19 - Caliche tank after third rainfall

H

Photo 13

spillway { Road east of multiple tank



Photo #13 - East boundary road, Sec. 19

H

Photo 12.

SECTION 19
South ~~north~~ Division of multiple
tank after second rainfall



Photo #12 - Sec. 19 - South division of multiple tank after second rainfall.

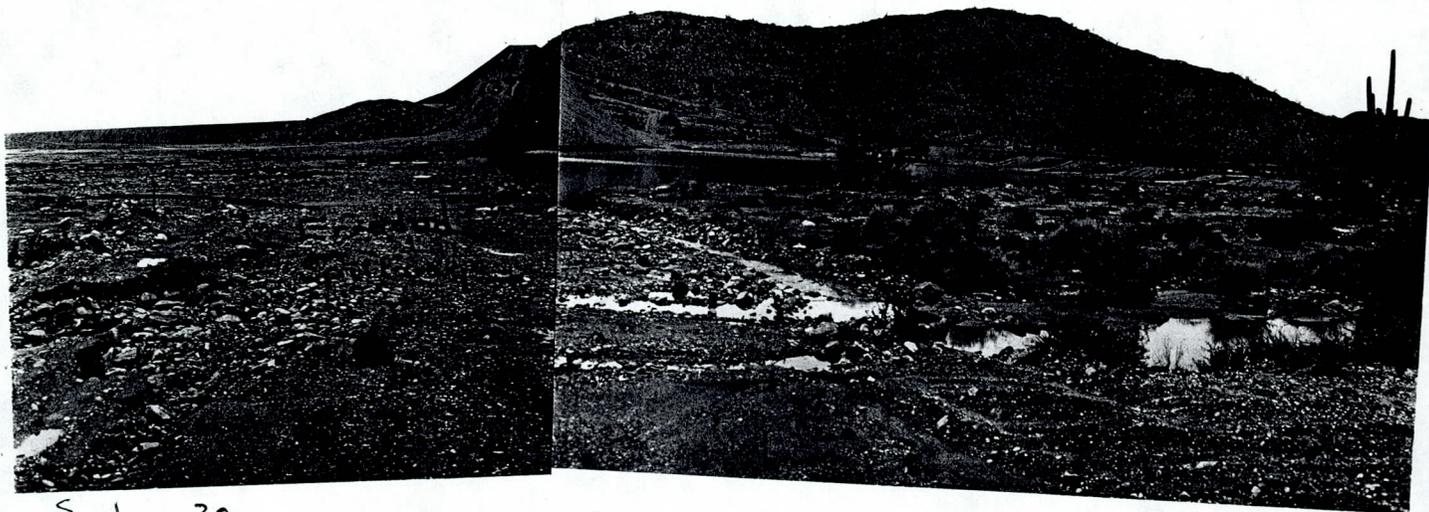
Photo 14



- 13% grade (looking north)

16
View of 13% Grade
& stock tank
looking South

Photo 15



Section 30

Photo #15 - Sec. 30 - View of 13% grade and stock tank
looking south

photo 16



East boundary road
first rain Sect 30

Photo #16 - Sec. 30 - East boundary road after first rain

photo 17



note washed out road.
East boundary road Sect 30
after 1st rain

Photo #17 - East Boundary road after first rain (Sec. 30)

M

photo 19



Photo #19 - Southeast corner of Sec. 31

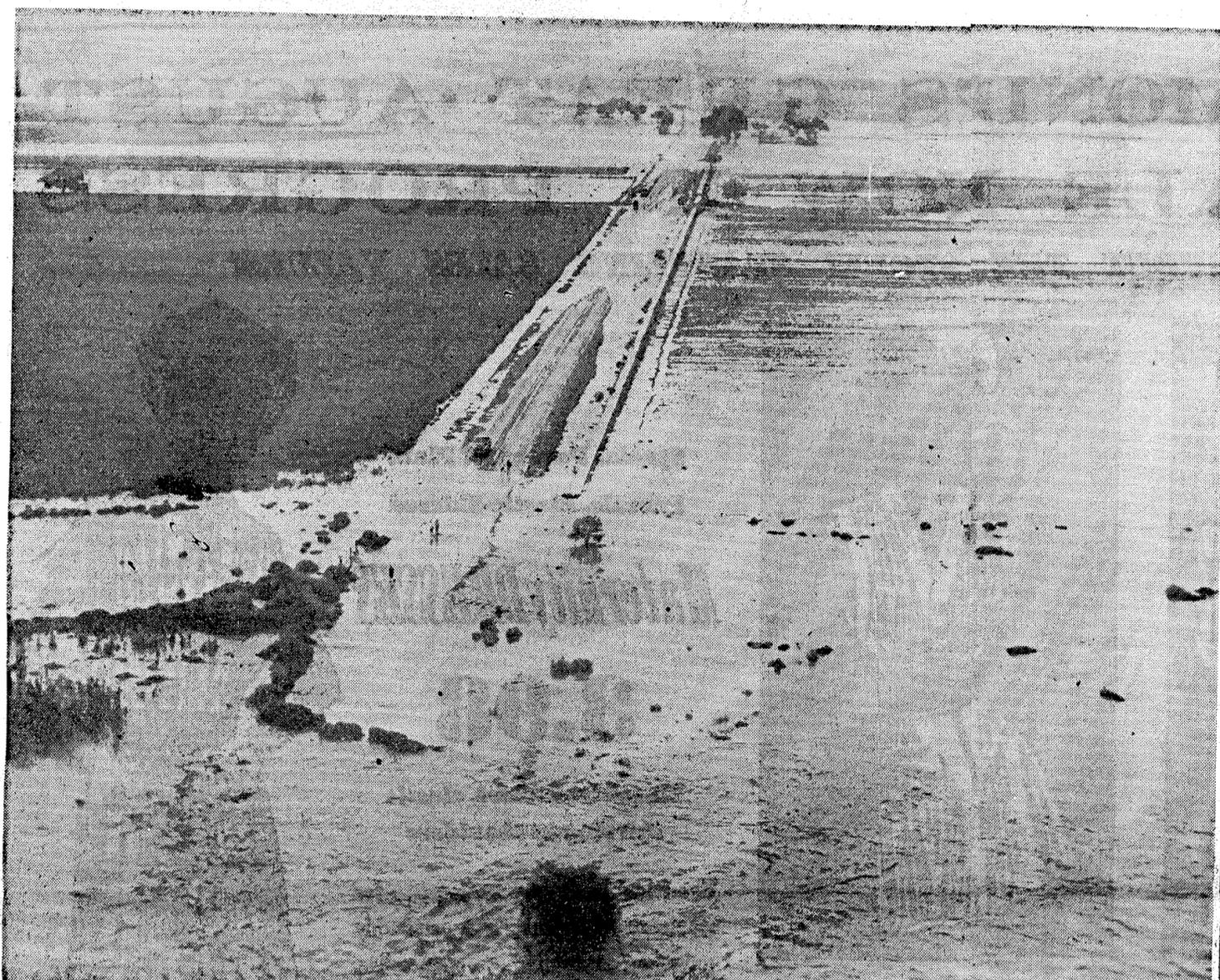
M

photo 18



Photo #18 - Tank, southeast corner of Sec. 30 (looking northeast)

SHEET "T"



Rivers Run Wild The Agua Fria and New rivers pour a deluge of flood waters over outer West Van Buren along a five-mile stretch northeast of Goodyear. This aerial picture taken from the west, shows the main force of the flood in the foreground with wide arms of the water reaching eastward towards Phoenix. An automobile is stranded on the dry road between the two

flooded areas. As the picture was made three persons were wading, apparently testing the depth of the water across the road, before trying to cross it. Several vehicles were lined up on the west bank of the flood. The only road open for them was through Coldwater. (Republic Staff Photo)

The Arizona Republic
Page 4 □ SATURDAY
Aug. 4, 1951

Viciousness Of Flood Seen Best From Air

By AL LEACH
We wondered if the people in the pretty little houses below knew that a flash flood southeast of Scottsdale was about to hit them.

The oily brown waters of Friday's storm slithered towards them like a fat snake through beautiful green cottonfields only a half mile away.

Guy Lowden, pilot for Arizona Airmotive, and I flew low over the houses, then turned over the approaching flood and went back again.

THERE WAS PLENTY of water in the stream which curled down from Paradise Valley and in an airplane one gets an instant picture of the enormity of destruction of a flood.

It was the same sodden picture along 19th Avenue in northwest Phoenix — the water was racing down the tree-lined road, and tiny people were sloshing around in the sea of muddy waters. The viciousness of the flood was evident on West Glendale Road, where at least 200 feet of asphalt pavement had been ripped out by the Agua Fria.

THE AGUA FRIA joined with New River just south of the road to make an even larger flood, running foamy rapids which appeared to be two feet high and carried brush, logs and debris.

At one place on West Van Buren northeast of Goodyear a rancher was riding a horse slowly down a submerged road, and in a hayshed alongside him cattle could be seen bunched on a high place in the floor.

Down the road a farm home stood deserted, with brown waters surrounding the house and swirling through the fence around the yard.

We took a good look at Luke Air Force Base, where water gushed across the road towards Litchfield and isolated the big base.

THE DOOR OF THE airplane had been removed so we could shoot pictures and as it rained most of the time during the hour and a half flight Lowden got quite chilly. Surprisingly enough, not much rain came into the cabin and only Lowden's right arm got damp.

We started for Buckeye to look at the Hassayampa River but turned around when the clouds looked as if they were sitting on the ground in that direction.

At no time during the flight did we go more than 1,500 feet off the ground, and most of the time we were right on the deck because of the low ceiling.



Road Awash The force of flash flood in the Agua Fria River smashed out a 200-foot section of Luke Air Force Base main thoroughfare, west from Glendale. A deep channel through the opening already had been cut at 11 a. m. Friday and wide waters stretched far north up the usually dry wash.—(Republic Staff Photo)



Salt Water Autos move cautiously across the Salt River at 16th Street and youngsters wade through the three-foot torrent of unfamiliar water pouring down the rain-swollen, normally-dry bed of the river. Both 16th Street and 19th Avenue crossings of the river bed were under water. It was the first time in years that there has been water in the Salt River bed in the Phoenix area.—(Republic Staff Photo)

Havoc Wrought West Of City By High Water

By JACK KARIE

I saw children swimming in the middle of West Van Buren Street Thursday.

And this was not the only strange sight I saw accompanying Lt. Col. Orville A. Cochran of the Arizona National Guard on an inspection tour of flooded areas west of Phoenix.

We could have used a motor boat instead of a jeep as we tried to use roads which looked more like swift-flowing rivers than streets and highways.

But it wasn't a funny sight, this havoc wrought in farmlands and homes in lowland areas.

THE TRIP was made to give the guard command a first-hand report of raging torrents of water which threatened several communities and thousands of acres of planted farm land.

Most of the roads we traversed were filled with water as river channels and canals failed to contain an excess runoff caused by heavy rains.

We found the Agua Fria River running a mile wide in some places and flowing swiftly as it threatened to wash out approaches to railroad and highway bridges.

THE RIVER backed up and made lakes on hundreds of acres of farm land in the Litchfield Park-Avonvale areas. It also was a mile wide as it crossed Van Buren and Glendale Avenues and cut off transportation to Luke Air Force Base, Litchfield Park, and points west.

Hundreds of farm trucks became mired in deep mud along farm roads while other vehicles were stopped as they were driven into water-filled dips on cement highways.

About a mile east of Litchfield we found several persons had evacuated their homes as the Agua Fria overflowed its banks and water started rising in the houses.

MUCH FURNITURE and other equipment was damaged as the water rose as much as three feet in some homes and then started to recede when the rain stopped about noon.

The Roosevelt District Irrigation Canal was filled to capacity as workers used bulldozers and other equipment to strengthen canal banks. Hundreds of sandbags made dikes to protect farm lands on both sides.

Glendale streets had been knee deep during the rain and at one time there were two inches of water on the police station floor near the center of town.

EMERGENCY workers were called when the canal threatened a bridge between Coldwater and Litchfield Park. Water raced around both ends and the bridge shook noticeably before the flood started receding.

Everywhere in the area men worked with shovels to keep water from their homes. Officers at Luke Air Force Base set up an emergency station at Glendale and were getting ready to evacuate persons there when the rains ceased and the floodwaters started to recede.

Military police kept cars from traveling over Glendale Avenue after several cars conked out and were stranded in deep water from flash floods that covered the highway.

Once-Dry Salt River Is Fishermen's Lure
Persons in the vicinity of Seventh St. and the Salt River had fishing lines lowered into the muddy waters of the usually dry river bed Friday.

No reports of any catches were made—but the youngsters had a good time.

Roosevelt Irrigation Officials Guard Flume; Rains Sharply Cut City Water Consumption

Roosevelt Irrigation District officials took no chances Friday with their irrigation flume over the Agua Fria River near Avondale.

Guard was posted at the flume as floodwaters spread over the area. After the last big rain, Jack Rayner, a farmer, unbolted heavy steel plates of the flume, causing the loss of thousands of gallons of water and damage to irrigation canal banks.

City of Phoenix water consumption has dropped sharply as a result of storms the last few days. From 66 million gallons Tuesday, the last hot day, water consumption tumbled to 47,200,000 gallons Wednesday, and 46,700,000 Thursday.

Wrecker operators did a landslide business Friday as they used their machines to pull drenched cars to drier places from water-filled dips in highways. But the good business caused anything but a joyful outlook for one of the operators. He got over-ambitious and tried to take his high-wheeled machine into deep water before the water started to recede. He misjudged the width of the roadway and his truck became

stuck off the side of a muddy road shoulder.

"And," he screamed, "I had to stay there during most of the flood — none of those other wrecker drivers would stop to pull me out."

Sheriff's Deputy Homer Ward said he wasn't put in the doghouse by his wife, but had to sleep out in the rain anyway.

Ward was patrolling in his prowl car early Friday when it stalled after hitting a water-filled dip on 27th Avenue. After several minutes of failing to start the car, Ward curled up in the seat and slept till the rain stopped and the water receded.

LOWER AREAS WARNED AGAINST FLASH FLOODS

FLOOD INUNDATES SEVERAL VALLEY COMMUNITIES

Valley Still Inundated In Numerous Places After Drenching Rain

Floodwaters that inundated many sections of the Valley after heavy rains early today, were receding slowly this afternoon but warnings were issued by the U. S. Weather Bureau that another downpour may hit the area tonight.

Louis R. Jurwitz, chief of the weather bureau office here, forecast "scattered showers and thunderstorms over the Valley starting tonight and continuing tomorrow." The rainfall may be from moderate to heavy.

Last night's rain was pretty general throughout the state but it hit the Phoenix area hardest, disrupting electrical service, blocking roads, washing out bridge approaches, cutting off temporarily rail traffic in and out of Phoenix and leaving many areas looking like giant lakes.

HERE IS A SUMMARY of the situation:

Jurwitz issued a special warning to residents of Coolidge, Florence and Casa Grande area to be ready for flash floods and high waters in the lowlands between 2 a.m. and 5 a.m. tomorrow.

Luke Air Force Base was virtually isolated, with water up to 18 inches deep in some places.

Col. Henry J. Amen, commanding officer at Luke, made an aerial

BULLETIN

A Roosevelt Irrigation District Canal two miles east of Buckeye broke shortly after 2 p.m. this afternoon. State Highway Department patrolmen reported "a large head of water was moving toward U. S. Highway 80" already under 12 inches of water.

survey of the district around the base and ordered preparations made to meet more serious floods.

All civilian and military personnel living off the base were advised to remain in their homes, and personnel at the base were told they could leave the base at their own risk.

Glendale, Tolleson, Sunnyslope and Buckeye reported store floors in some sections covered with water.

BUCKEYE WAS preparing to meet an onslaught of water from two directions. The Santa Cruz River, with waters from the Tucson area, was running fast with water into the Gila River which was expected to hit Buckeye from the south. The Hassayampa River

More Photos, Pages 7 and 9

was rolling toward Buckeye from the north.

Avondale, Litchfield and Liberty also were warned to expect floodwaters in low areas.

The watersheds of the Salt and Verde rivers were getting considerable benefit from rains.

All crossings over the Salt River except the Tempe Bridge and the

Turn to RAIN on Page 7



Gazette Staff Photos by Bob Davy

Homes on the north side of Glendale Ave. near Lateral 19 "dry" but the situation was different today as heavy rains flooded area. Above picture shows homes of Al Fisher (left) with car in yard, and Marion Ewers sitting in miniature lake.



This picture shows floodwaters east of Cashion at the intersection of Lateral 24 and U.S. Highway 80.

Rain

Concluded From Page One
Central Avenue Bridge were expected to be blocked by water. Twenty-five homes on Carol St., Sunnyslope, between 17th and 19th Avenues, were flooded, with water reported three inches deep in some homes.

ROADBLOCKS WERE put up on 19th and Northern Avenues, 27th and Northern Avenues, and 19th Ave. and Bethany Home Rd., because of flood conditions.

Laterals 20 to 25 were under water from Indian School Road to Tolleson.

Cave Creek was out of its banks but the dam had not broken as some reports said.

Southern Pacific trains in and out of Phoenix were delayed. The Sunset Limited which was due to leave here at 8:35 a. m. was held up until 10:05 a. m. It was held up later for two hours at Litchfield. Tracks were under water and the trains could not proceed until it was determined if there was damage. Westbound traffic was moving slowly over the tracks.

THE IMPERIAL, due in Phoenix at 12:05 p. m., was stopped at Hyder and backed up to Wellton and rerouted through Gila Bend and Casa Grande. Buses were to pick up Phoenix passengers at Casa Grande. The Cherokee, eastbound, also was rerouted through Casa Grande.

All trains were expected to be moving over regular routes later today.

All county roads in the Queen Creek and Gilbert areas were closed, Howard Shelp, county engineer, reported. All county crossings over the Agua Fria River also were closed, and the approach over the Roosevelt Irrigation District canal on Lateral 21 was washed out. Lateral 24 also was reported washed out.

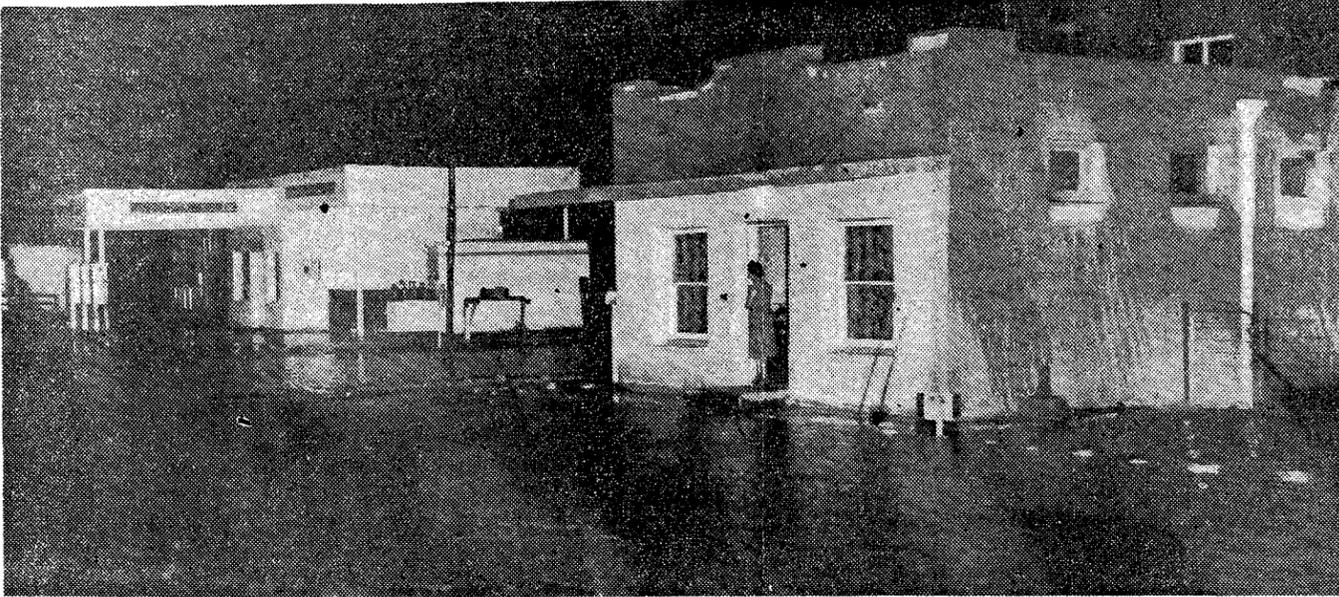
The Hassayampa River was running 1½ feet deep today at Wickensburg where 1.27 inch of rain was reported. The Agua Fria was running 8 feet deep at the Grand Avenue crossing at one time but was receding.

MOST AREAS OF the state got some rain during the night with the measurement on the Verde and Salt River watersheds ranging up to nearly an inch.

The Verde River was flowing at a rate of 610 second-feet, the best since last February and March, Jurwitz reported.

The Salt River between 11 p.m. and midnight was running at the rate of 6,000 cubic feet per second but was down to 585 cubic feet per second by this morning. Tonto Creek, which originates near Payson and flows into Roosevelt Lake, was running at 125 cubic feet per second at 6 p.m., yesterday but that was not the peak. At 6 a.m. today the flow was 26 cubic feet.

RAIN FLOODS STREETS IN SUNNYSLOPE AREA



Woman shown standing at the entrance to her home was just one of hundreds of Sunnyslope residents who awoke this morning to find water standing everywhere. Picture was made about 2:45 a.m. and shows flooded area just off Central Ave., immediately north of the Arizona Canal. Rain was falling as picture was taken. Similar sights greeted many Valley residents this morning.

24-hour period 74 and 53; Gila Bend, .61 inches and a temperature range of 93-73; Grand Canyon, .14 inches and 74-58; Payson, .10 during the night and a total of 1.78 for a 36-hour period, with a temperature range of 85-61; Prescott, .05 inch and rain starting again this morning and a temperature range of 84-62; Mormon Flats, .70 inch; Tucson, .80 inch last night and temperatures of 93-71; Winslow, .37 inch last night and temperatures of 86-63.

ROOSEVELT DAM reported .16 inch; Roosevelt Intake, 1.35; Stewart Mountain Dam, .68; Granite Reef, .79; and Childs near Roosevelt Dam, .48.

Phoenix measured .47 inch downtown and .20 at the airport up to 5:30 a.m. Temperature range downtown was 92 to 71, and 93 to 71 at the airport.

Reports that the Cave Creek Dam had broken and that there was danger of the Alhambra area

being flooded proved unfounded. The Water Users said that water had been allowed to enter the spillway where Cave Creek Wash enters the Arizona Canal, but that it is under control. There is no danger of a break in the dam, officials said.

THE WATER USERS reported that there were general flood conditions in the low desert areas of the Valley but that as yet no breaks had been reported in its canal. The bank of an irrigation ditch at Cashion broke and floodwater surrounded the settlement's service station, restaurant and grocery. Water in many places along the highway was reported over a foot deep.

Many low spots on U.S. Highway 80 were reported under water and, while the highway patrol reported it was passable, they did not recommend travel on it.

Several automobiles became stuck in a water-filled dip along

the Casa Grande-Gila Bend Highway and a highway department crew from Casa Grande was called out to assist the stranded motorists.

ONE PHOENIX FIRM was hard hit by the three storms of the past week. Custom Floors Co., 4003

20 RATTLERS KILLED ON GILA BEND ROAD

Floodwaters on the desert were making life uncomfortable for rattlesnakes today.

Maricopa County deputy sheriffs said that they killed 20 of them in high spots of the road near Gila Bend.

Heavy rains apparently have moved the snakes from their homes and they are seeking higher ground.

leaking through the roof during the storms caused \$10,000 damage. N. Seventh St., reported that rain

WATER TRAPS ROAD EMPLOYEE

The flood marooned one of the night watchmen for the Maricopa County Highway Department.

Howard Shelp, county engineer, said that the county had been doing some work in a gravel pit west of Litchfield and that a watchman had been guarding equipment during the night.

He was still there today, on high ground, Shelp said, but there was no way to get to him as he was surrounded by water.

into service, manned by workmen called from their homes.

They were kept busy replacing blown fuses and repairing other minor damage.

FLASH LIGHTNING caused an overflow of power on some lines, blowing out transformer fuses.

Lightning hit a transformer pole in the Valley Lumber Co., 1920 W. Van Buren, about 12:10 a.m. Before repairmen could get to the scene lightning struck the pole again, wrecking the transformer, circuit breaker and the lightning arrester, a company spokesman said.

Although a wide area was without service, only three complaints were received by the utility. They attributed this to the fact that it was cool, few coolers were on, and most people were in bed.

The storm followed a northwesterly direction and after dropping most of the rain in the Peoria to Cave Creek Wash area, turned toward the southwest.

JURWITZ SAID THAT the outlook for more rain in the watershed area is good for the next 24 to 36 hours. Moderate to heavy rainfall is forecast for the central area and on the southern slopes of the central mountain ranges of the state.

No new moisture is moving in, Jurwitz stated, saying there is a good amount of moisture in the air about 25,000 feet up.

Glendale Ave. between Grand and D Ave., was one big lake.

Water was running from 2 to 5 feet deep. Large trucks and

buses were the only vehicles that could get through the water. Many motorists were stalled when ignition systems became wet.

W. Glendale Ave. looked more like a river than a highway as irrigation ditches overflowed and the rain fell.

IN A STORE ON Lateral 22 and Van Buren, the proprietor and customers were having sport punching holes in huge water bulges caused by water seeping in from the roof.

Calapco wasn't the only utility that had trouble. Mountain States Telephone and Telegraph Co., reported several hundred telephones went out of service because of wet cable. Service men had difficulty getting to areas, most of them west of Phoenix, because of water in roads.

Last night's storm didn't hit Luke Air Base as hard as the one last Friday night but Colonel Amen was preparing for the worst.

While making his aerial survey he noticed that a large irrigation ditch near Beardsley apparently had broken and water was roaring out. If that hits Luke Field and other rains follow, Colonel Amen said he believed the situation would get worse than last Friday.

EVACUATION OF personnel in the housing area at Luke has not been necessary, he said, but furniture and other household items have been placed on blocks to protect them in event the water rises.

Douglas was another area of the state that reported welcome rains. The fall measured .84 inch at Bisbee-Douglas Airport and was accompanied by not-so-welcome hail as big as marbles and winds of 60 miles per hour.

The wind blew the roofs off two warehouses and broke several windows at the airport. Aircraft bypassed the port during the storm. Rain in the city was measured at .75 inch, the most in one storm in more than a year. The wind was not particularly strong in the city itself.

FLASH FLOODS rolled over widely separated sections of Colorado last night, destroying homes, killing livestock and cutting highways, but dissipated quickly today, the Associated Press reported.

There were no reports of persons dead, injured or missing. Cloudbursts were blamed for all

Patrol Car, Truck Collide

Special to The Gazette

MESA, Aug. 3—A wine delivery truck and a highway patrol car collided head-on on the rainswept highway 6 miles east of here early today, breaking several bottles in the truck's load.

Ike Mulleneaux, driving the patrol car, suffered cuts and bruises, and Irvin Ackman, 26, of 1424 S. 21st Pl., Phoenix, the truck's driver, was unhurt, Patrolman Bill Whitlow reported.

The accident took place shortly after Mulleneaux had placed flares along the road to warn motorists of floodwater which had backed up in the roadway.

Whitlow said that when Ackman applied his brakes to slow down for the water, the truck slid across the pavement, struck Mulleneaux's car and pushed it back 9 feet. The truck then crashed into a ditch.

of the floods. The Weather Bureau reported this morning Denver had received 3.38 inches of rain, Pueblo 1.75 inches and Colorado Springs .92 inch.

The Colorado State Highway Department reported all highways were open this morning. Crews were cleaning up debris from the storm.

ALL STREAMS receded rapidly as the rains stopped.

The heaviest damage was done at Ouray and north and south of it in southwestern Colorado.

4 FIRST IN SERVICE

which covered the fertile fields of the Valley during the night was equal to one day's irrigation.

For the first time in weeks, reservoirs in the dams showed a gain. While an 800 acre-foot loss was reported from all reservoirs yesterday, a 54 acre-foot gain was reported this morning.

Water was flowing 2 feet deep in the Salt River near Mesa but diversion of water from the Arizona Canal north of Scottsdale was largely responsible.

Salt River Valley Water Users Association diverted 1,150 second-feet from the canal into the Indian Bend waste way, which flows into the Salt north of Mesa, to prevent overflowing of the canal.

THE WATER IN THE Salt will go through the South Phoenix area later in the day.

Heaviest amount of rainfall measured in Central Arizona was at New River Station, 30 miles north of Phoenix on the Black Canyon Highway.

Frank E. Bond, who manages the New River Station, said that 2¼ inches of rain fell between 1 a.m. and 6 a.m. and that when he left there at 7 a.m. rain still was falling. Water was running in the Agua Fria River.

HERE ARE THE rainfall measurements in other parts of the Valley:

Alhambra, 1.07 inches; Glendale, .99 inches to 8 a.m. and still falling; 45th St. and Camelback, .43; 25th St. and Moreland, .34; Downtown Station, .47; Sky Harbor Airport Station, .20 up to 5:30 a.m.

Outside of Phoenix, Kelvin south of Ray on the Gila River, had 1.62 inches between 9 p.m. and 10:30 p.m. yesterday. Florence had 1.08 inches measured between 10:30 p.m. and 1:30 a.m. Flagstaff reported .17 inch of rain with high and low temperatures for the

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AIRMEN ABANDON BUS MAROONED ON FLOODED HIGHWAY



Airmen and civilian personnel en route to Luke Air Force Base abandoned this bus yesterday when it slipped off a flooded road near the base and waded barefooted to dry land where another Luke-bound bus awaited them.

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FLOODWATERS FILL AGUA FRIA RIVER



Gazette Staff Photos
 Agua Fria River near Avondale was running almost full today approaching bottom of Southern Pacific bridge just east of Avondale. Picture was taken from east end of bridge over Agua Fria on U.S. Highway 80.



John Puckett, who lives in house at left on Lateral 22 south of Van Buren, started out with his water truck today but didn't get very far. Water had washed out part of road and truck sank and stalled. Puckett is behind truck with Cora Harper, neighbor.

16
RAINS BRING SCENE FROM ANOTHER DAY



Gazette Staff Photo by Russ Spavin
 An Indian and his family riding a buckboard drove across Salt River north of Mesa today reminding old timers of years ago when water ran in Salt and Indians crossing river in such fashion were familiar scene. Today's water came from rains and from water diverted from Arizona Canal to keep it from overflowing.

Scattered thundershowers. Warmer. Friday temperatures: high 84, low 71. Humidity: high 96, low 49. Details on Page 19.

1951 Fatalities To Date 1950
203 In Arizona 170

FLOODS RECEDE; RAIN SIGHTED

Golden Deluge Soaks Thirsty Lands, Hikes Storage

Users Hope For 50,000 Acre Feet

Irrigation Officials Take Cheery Outlook First Time In Years

By BEN AVERY

A \$1 MILLION MIRACLE fell out of the skies on Arizona Thursday night and Friday.

And benefits of the storm will run much higher if more rain comes to maintain river flows.

Worried Salt River Valley Water Users officials were optimistic for the first time in five years. It's been that long since they had anything to be optimistic about.

THAT YEAR a September storm that started out like this one put more than 100,000 acre feet of water behind their dams.

Immediate benefits of the current storm were assessed at:

1. The equivalent of a full irrigation for the entire Valley.
2. Floods pouring down Salt River, Tonto Creek, and the Verde River into storage reservoirs.

THE AMOUNT of storage could not be guessed at, but optimism started building up Friday morning. At first wildest hopes were for 5,000 acre-feet, then Water Users officials crossed their fingers and raised their sights for 10,000—by nightfall they were expecting more rain and flooding 50,000 acre-feet on scratch pads.

That, plus an irrigation for the Valley, would easily have sold to Valley farmers for \$1 million a week ago.

And the state's livestock growers may count another million in rangeland benefits.

Water Users employes started early Friday calling farmers and asking them to take free water. All of the system was used to distribute the flood except laterals feeding residential areas, and manpower wasn't available to put

(Continued On Page 2, Col. 1)



Flood Moves In This lonely farm home stands deserted in the flood waters of the Agua Fria and New Rivers west of Phoenix on the road to Goodyear. No automobile could be found around the house and apparently its occupants had fled. The muddy waters were slicing against the foundation of the home when

this aerial photo was made just before noon Friday. It is nearly a mile away from the main bed of the joint stream which usually is dry. Many other farm homes in the Valley were hit by flash floods and the northeast section of Phoenix was damaged in the aftermath of the downpour of rain.—(Republic Staff Photo by Al Leach)

Stream Basins Fail To Hold Storm Runoff

High Winds, Lightning Cause Minor Damage; Reservoirs, Farms Benefit From Central Arizona 2-Day Rains

By FRANK S. CREHAN

ROCKED BACK on its heels Friday by the heaviest downpour in eight years, the Salt River Valley was expecting still more rain.

A 14-hour-long series of thunderstorms had thoroughly soaked a big triangular area running roughly from Wickenburg to Gila Bend to the Pinal Mountains near Miami.

Although accompanied by near-gales, the winds caused surprisingly little damage, authorities reported. Most damage came from flood waters which reached the Valley floor hours after the downpour.

Water was receding in most Valley sections late Friday night. No crop damage was reported except in the more heavily flooded

(Additional Stories, Pictures, Page 4)

areas in the Beardsley and Buckeye projects. Most Valley farmers termed the deluge more of a blessing than a curse.

Residents of the Florence area were warned to be ready for flood waters expected to reach that section after 2 a.m. Saturday.

Louis R. Jurwitz, Phoenix weatherman, said the threat came from storm water rushing down the swollen Gila River.

Jurwitz also predicted scattered showers and thunderstorms over the Valley Saturday.

Starting in mountain areas about 8 p.m. Thursday, the thunderstorms continued until 10 a.m. Friday. Hardest hit by both rainfall and accumulated flood waters was the Tolleson-Buckeye-Litchfield Park section.

Unusually heavy precipitation also was reported in Sunnyslope, Glendale, and northern fringes of Phoenix. Measurements ranged from .48 of an inch at Phoenix airport to 2.28 inches at Litchfield Park. An unofficial report gave Sunnyslope more than 2 inches.

Runoff Heaviest In 8 Years

Irrigation authorities were jubilant over the run-off from the storm. It was termed the best in years.

Jurwitz said the rainfall was the heaviest since the storm of August 2, 3, and 4, 1943, eight years ago. At that time 2.99 inches of rain were recorded at the airport in a five-hour period. And 5.12 inches fell over Phoenix in 48 hours.

Rail and bus traffic suffered as a result of the storm, which disrupted telephone and electric service and washed out roads and bridges.

For the second time in less than a week, Luke Air Force Base was virtually isolated. All civilian and military personnel absent from the base were told to remain away. Crews raised sandbag dikes which held water on the facility to a depth of only about five inches. This compared with the 4 to 5 feet left by last Friday's storm.

However, all roads to the field were blocked.

Also closed was Highway 80 west of Buckeye.

The storm was broken into three main divisions, according to Jurwitz. One was in the Pinal Mountain area. A second began in the McDowell Mountains and swept across northern Phoenix and Sunnyslope and soaked the area west of the city. The third began in the Bradshaw Mountains south of Prescott and came toward Wickenburg.

The storm played havoc with Southern Pacific train schedules. Tracks were under water in the Cashlon-Tolleson-Buckeye area and many westbound trains were held up in Phoenix or west of here.

Passenger Trains Rerouted

The Sunset Limited, due to leave here for Los Angeles at 8:35 a.m., was held in Phoenix for nearly two hours. It was delayed another two hours at Litchfield Park and later was returned to Phoenix. The limited finally was rerouted through Picacho and was en route to Los Angeles eight hours behind schedule.

A railroad spokesman said the Imperial, due in Phoenix at 12:05 p.m. from the west, was stopped at Hyder, backed up to Wellton, and then rerouted through Gila Bend and Casa Grande. Busses picked up Phoenix passengers at Casa Grande.

The Cherokee eastbound, also was routed through Casa Grande. Hit twice by high water, the affected area was expected to become passable late Friday.

The Santa Fe Railroad was affected only slightly by the storm. Greyhound busses completed early morning schedules on Highway 80, but busline officials expected trouble late Friday night. Black Canyon Highway runs were rerouted through Wickenburg.

Fifteen hundred Valley telephones were put out of commission by the storm, the Mountain States Telephone and Telegraph Company reported. But all service was expected to be restored by Saturday morning.

Much of the damage was caused by lightning burns on four cables which permitted moisture to reach the wires. Repair crews were out since dawn Friday but in many cases were delayed in reaching stricken areas because of high water.

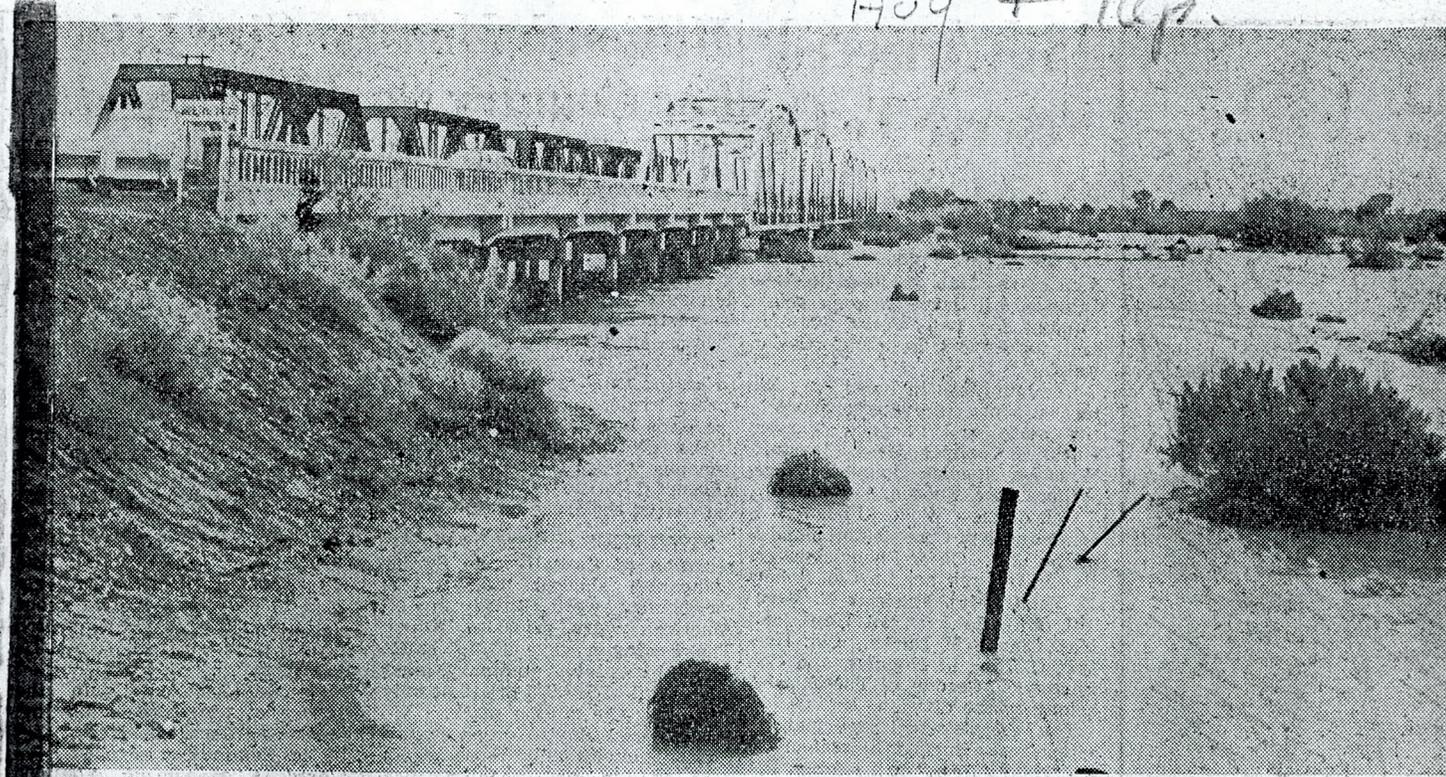
Worse hit was the Tolleson area. Most damage was caused by heavy rains, according to H. K. Richmond, Phoenix manager for the utility. He said last Friday's windstorm "had apparently blown down everything that could be leveled," thus leaving little for the wind Thursday night.

A large area west of Phoenix was without electric service Thursday night, according to the Central Arizona Light and Power Company. But most breaks were repaired in short order.

The utility had only three service calls because of the storm.

(Continued On Page 2, Col. 3)

Aug 4th
Aug 4 Rep.



Unusual Sight Water in an Arizona river comes under the heading of oddities. This is the Agua Fria at Avondale where it is spanned by a railroad and a highway bridge carrying U. S. 80. At one time Friday the floodwaters rose to within a foot of the bridge decks.—(Republic Staff Photo)

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Flood Damage Repaired Floodwater pours over a railroad bridge as crews of Luke Air Force Base airmen listen to Elmer Kelley, superintendent of roads and grounds at Luke, as he points out places for additional rock and sand bag fills. For the second time in a week, the base was overflowed by torrents from ~~overlaid drainage canals and~~ other ditches and washes.—(USAF Photo)

Weather

Showers continuing Tuesday. Slightly warmer. Monday's temperatures: high 73, low 68. Humidity: high 99, low 88. Details, Page 22.

THE ARIZONA REPUBLIC

THE STATE'S GREATEST NEWSPAPER

Traffic Deaths

1951	Fatalities To Date	1950
235	In Arizona	185

62nd Year, No. 102 —26 Pages

Phoenix, Arizona, Tuesday, August 28, 1951

Entered at Post Office as second class matter under Act of Congress, March 3, 1879; \$1.90 per month **Seven Cents**

RAINFALL BEST IN FIVE YEARS

Arizona Looks To Truman To Halt Copper Strike

Soaking Storm Upsets Train, Bus Schedules



Central Canal Central Avenue was short on traffic and long on water Monday afternoon as drainage overflowed curbs and stood five inches deep in stores. Shopkeepers had to move out again, as they have done in previous rains this summer. City police barricaded Central south from Roosevelt, an area into which no motorist would have ventured without an outboard motor.—(Republic Staff Photo)

Farm Needs Met, Water Users Say

Hope Is Revived Reservoir Supply May Last Season

By AL LEACH

THE BEST rains in Central Arizona in five years Monday made farmers happy and raised hopes that the stored water supply would not be exhausted.

Payson reported 2.60 inches of rain in a 24-hour period ending at 5:30 p.m., Monday, while the downtown weather station in Phoenix showed 2.12 inches—the greatest since September, 1946.

Carl R. Erickson, weather bureau climatologist, said the gentle rains were moving up through Central Arizona and had not yet reached northern sections of the state.

W. W. PICKRELL, president of the Water Users, called the soaking rains "a great boost to farmers' morale," adding that reservoir storage had sunk to 8,000 acre feet of usable water.

Farmer calls for water were stopped with an estimated saving of approximately 3,000 acre feet Monday alone. Water Users' officials said the rain would mean at least a week's irrigation to many farmers, and much more to others.

Farmers reported the rain would cause little if any damage to cot-

Sheriff Has New Use For Rainwater

ON A rainy day in Phoenix, county supervisors approved the hiring of George S. Rainwater as a sheriff's deputy.

Rainwater, who lives at 2933 E. Belleview, will start at \$275 a month.

ton, and would be a boon to most crops.

RAINFALL on the Salt-Verde watersheds was good on the eastern portions, with Tonto Creek gaining 26 second feet to a flow of 126 feet at 6 p.m. Monday, and the Salt jumping from 240 feet to 415 feet during the day as a result of heavy rains Sunday night.

Other rainfall reports Monday included Gila Bend 2.75 inches, Wickenburg (estimated) 1.60, and Tucson .55.

The weatherman forecast continued rain Tuesday, but expected it to decrease by Tuesday night.

The more than two inches of rain Monday had highways and streets full of water.

In Phoenix the near-record rainfall flooded many streets causing motorists such difficulty that some streets were roped off, while water running across highways in the Gila Bend and Buckeye areas blocked traffic.

Service on the Southern Pacific railroad to Phoenix still was halted as heavy rains west of Buckeye washed out trestles and forced the rerouting of trains through Casa Grande.

BUSSES also were running behind schedule.

Highway 80 was washed out

(Continued On Page 2, Col. 1)

LET 'ER RAIN
INTERMITTENT LIGHT TO
MODERATE SHOWERS.
LITTLE CHANGE

The Phoenix Gazette

ARIZONA'S PROGRESSIVE NEWSPAPER

Sheet W
FINAL

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26 Pages

STORM LIFTS RESERVOIR LEVELS; SP TRAIN DERAILED AT WASHOUT

Seven Of Crew Hurt In Wreck

At Arlington

Two Railroad Workers
Still Are Marooned;
Road Traffic Slowed

By LEN WELCH

Warning that more rain can be expected came today even before the Valley of the Sun could start recovering from a two-day onslaught of moisture that washed out railroad trestles causing one train wreck, stopped or slowed down traffic on many highways leading into Phoenix, and isolated many areas.

Seven railroad workmen and crew members were injured this morning when a train speeding in damaged area on the Southern Pacific line west of Buckeye ran into a washed-out trestle. The engine and five cars of the 25-car work train flipped over on their sides and smashed.

THE ACCIDENT happened about 8 a.m., eight miles west of Arlington. Several trestles had been washed out, halting service on the line between Phoenix and Wellton, and the crew of 30 men was being held to the area to make repairs.

Rain was falling heavily and the engineer, George Boyer of Phoenix, said that he was able to see only three car lengths ahead of him. Just before the train started to cross Centennial Wash, Boyer said he saw that supports for the trestle were out. He applied the emergency brakes but could not stop the train in time.

Crew members and workmen scrambled out of the overturned cars and swam to the roadbed.

TWO OF THE seven members got to dry land on the opposite side of the wash and efforts to rescue them were being made this afternoon.

Railroad workers said that the ties and rails still were hanging over the wash and they expected to carry the two injured back across the rails to the east side of the wash and then take them by hand car to Buckeye for medical treatment.

Among the injured treated in Buckeye were James Mason, a member of the section gang, who suffered a burned right hand while hanging onto a hot stove. He was holding the stove with one hand and holding onto the trousers of a fellow worker with his left to keep the man from submerging. Name of the second man was not learned.

Also injured were Juan Flores, who suffered multiple contusions on the chest, arms and torso; Jesus Mendez, 38, of 713 S. Seventh St., Phoenix, a foreman who had a hip injury; Eliza Flores, back injury; Boyer, the engineer who had a bruise on the foot, and J. R. Stewart.

Turn to **DAMAGE** on Page 8

TOO MUCH WATER FOR IRON HORSE TO NAVIGATE



Locomotive and five cars of Southern Pacific work train were wrecked early today in washout on main line at Centennial Wash, west of Arlington. Seven crew members were injured. Boxcars were ripped apart by raging torrent. Photo was taken by Lloyd Clark, Phoenix Gazette reporter, from plane piloted by Mrs. Juanita Newell.

U.N. Charges Reds' Airplane Staged 'Raid'

TOKYO, Aug. 28 (UP)—Gen. Matthew B. Ridgway's supreme headquarters charged today that the Communists used one of their own airplanes to stage a fake bombing of Kaesong.

A statement issued by the supreme U.N. commander's public information service repeated that no U.N. airplane of any description was over Kaesong at the time of the alleged bombing of the armistice conference neutral zone.

"Our air alert system reported that an unidentified aircraft approached Kaesong from the west at 11:20 p.m., the exact time of the alleged attack," the statement said.

"SINCE NO U.N. command aircraft was in the area, it is beyond doubt that this was a Communist aircraft."

Radio Peiping, quoting a North Korean newspaper, said the Kaesong talks had "come to a serious crisis owing to American provocations" and that "American imperialists must..."



Buildings on ranch near bank of usually dry Centennial Wash were flooded today as storm waters poured southward toward Gila River. Small structure (left center) was moved from foundation near a big truck and in a nearby field a cow, which appears as black dot upper right, stood in water two feet deep. Ranch is near Phoenix-Yuma highway, south of Arlington.

Shed Gets Rainfall Up To 7.41 Inches

Increase Of 180,000 Acre-Feet
Forecast At Three Central Projects

By C. M. McMILLEN

A two-day rainfall totaling up to 7.41 inches today had given three irrigation projects in Central Arizona more than 42,000 acre-feet of storage water in reservoir lakes that were dry or almost dry before the storm.

Substantial additional reservoir increases were sighted by officials of the three irrigation districts, with gains totaling 180,000 acre-feet forecast as follows:

Salt River Project 125,000 acre-feet.
Beardsley Project 50,000.
San Carlos Irrigation Project, 5,000.

Additional rains, forecast by the United States Weather Bureau, would mean further gains for the storage lakes that feed irrigation waters to Valley farms.

ALREADY IN the "water bank," the storage reservoirs, were these gains for 24 to 30 hours: Salt River Project 22,000 acre-feet, Beardsley 18,000 and San Carlos 2,500.

Flood waters tumbling down the Salt River and Tonto Creek still were rising at mid-day, but the Verde River's flood flow apparently had peaked during the night and was dropping.

The Reno Ranger Station in Tonto Basin country, below Matiazal Mountain slopes, had poured down the heaviest rainfall total, 7.41 inches for the storm, but Pay-

New College Aims To Open Here Sept. 17

By ESTHER CLARK

About 200 students will report Sept. 17 at the new \$250,000 Grand Canyon College campus, 35th Ave. and Camelback, it was announced today by Roy F. Sutton, vice-president.

If rain continues, however, the opening will be delayed two or three weeks so buildings under construction will be ready, he added.

UNITS BEGUN are the administration building, two classroom buildings, library, music hall, dining hall, and two dormitories, one for women and one for men.

Sutton emphasized that the entire 78-acre campus is designed to provide for later conversion of these buildings into student housing units.

About \$100,000 of the \$250,000 special bonds voted by the Baptist General Convention have been sold, he reported.

The college official stated that

RAIN AT A GLANCE

Alhambra	2.46
Bar-T-Bar Ranch	3.19
Castle Dome (Near Miami)	4.89
Childs	2.92
Corvino	1.53
Fossil Spring	4.81
Gila Bend	2.75
Gila Canyon	4.02
Irving	2.75
Lake Pleasant (24 hours)	3.05
Maverick	2.28
McNary	2.40
Mesa Experimental Farm	2.73
Mormon Flat	3.05
Payson	3.59
Phoenix (Downtown)	3.52
Phoenix (Airport)	3.17
Pinel Ranch	4.53
Prescott	1.21
Reno Ranger Station	7.41
Rio Trail Ranch	3.33
Roosevelt	2.69
Salt Intake Station	2.89
San Carlos	3.44
Tempe	3.03
Tonto Fish Hatchery	4.26
Tucson	4.62
Wickenburg	3.61
Winslow	1.13
Yuma	1.43

son and the Bar-T-Bar Ranch, near there both had contributed more than 5 inches to the potential runoff into Salt Project.

BRIGHTER YET, in the total runoff picture, were the White Mountain country rains, where McNary had 2.40 inches.

Upper watershed rains were general, and these will contribute heavily to continuous runoff, according to officials of the Salt River Valley Water Users Association.

Although there will be individual fields of cotton or other crops that will be cut by flood waters, the whole state-wide economy will gain in multi-million dollar totals from the storm.

Cotton that was threatened by drought is now thoroughly irrigated—and more water is available.

RANGE LANDS throughout Arizona still have time to produce major additions to forage crops before frost, certainly in the desert foothills and lower mountain elevations.

Turn to **RAINFALL** on Page 2

Damage

Concluded From Page One

art. 41, of 2407 N. Purdue, Phoenix, the conductor.

STEWART, WHO suffered a sprained wrist, was riding in the caboose. When the train plunged into the wash, the shock to the caboose was so severe that men and chairs were thrown about like leaves in a strong wind, Stewart said.

After treatment in Buckeye, the men were to be brought to Phoenix for additional treatment.

Boyer made his way back to the railroad community of Clag to tell of the wreck.

All of the Centennial Wash trestle and four or five others along the SP route were washed out by the sweeping flood waters.

Because of the washouts, Southern Pacific trains for Phoenix were being routed from Wellton through Casa Grande where busses were picking up passengers to bring them here.

As more rains—from moderate to heavy—were forecast for state through tomorrow, Sheriff L. C. Boies alerted members of his air patrol for possible use in dropping food and other supplies to farmers marooned in flooded areas.

THE SURGE of water on the New River, Hassayampa, and Gila rivers also brought two preliminary flood warnings from the Weather Bureau.

The first concerning the New River and the Hassayampa said: "Reports indicate that the New River and the Hassayampa River may flow more water and aggravate flooding conditions from Litchfield southwestward to Gila Bend."

(As of 1:20 p.m. today there were no "bad" water conditions in Litchfield.)

The second warning concerned the Coolidge and Florence areas and said: "Preliminary reports indicate possible flooding in Florence and Coolidge areas from high waters on the Gila River. All persons living in the lowlands bordering the Gila are warned to take precautions against rising waters."

WATER FLOWED under the S. Central Bridge over the Salt River in any appreciable amount for the first time today since 1941.

A small trickle under the bridge at 8:30 this morning mounted to a torrent several hundred feet in width, surging at large rock piles and filling the sand pits to a depth of 30 to 35 feet.

Sand and gravel companies along the river were notified last night to move drag lines and other equipment in the pits.

Scores of persons swarmed along the banks and on the bridge to watch the unusual sight. One man with a camera took pictures "so I can show my grandchildren." Water reached the 19th Ave. crossing at noon and the crossing was closed.

CENTRAL ARIZONA Light and Power reported minor trouble as result of the long rain storm. If it were accompanied by wind, which would cause wires to whip and short, extensive trouble might have resulted, spokesmen said.

H. K. Richmond, district manager of the Mountain States Telephone and Telegraph Company, reported 1,600 phones out in Phoenix this morning. The Mesa, Tempe, Chandler area had about 150 phones not working.

Ajo was without telephone communication with the outside world, he said, with some poles reported down. Crews were unable to enter for repair work, either through Tucson or Gila Bend.

Richmond said repair work was begun last night, but made very difficult as manholes could not be entered to dry out cables, which were responsible for the service failure.

The sheriff's office dispatched a helicopter to the Arlington area to determine whether residents or motorists were stranded by the water and in danger.

CENTENNIAL WASH was reported running 1,000 feet wide as it poured the desert runoff into the Gila River. It and other washes have made the Phoenix-Yuma highway impassable, and have caused extensive damage by washing away the blacktop paving.

Luke Air Force Base has been marooned since shortly before midnight, when rapidly-rising water made all roads impassable.

ALL AVAILABLE personnel at the base were manning equipment to divert flood waters from broken dikes to the west side of the base.

Dikes, which were sandbagged during the night, began breaking this morning, adding more water to the two feet already covering the lower east side.

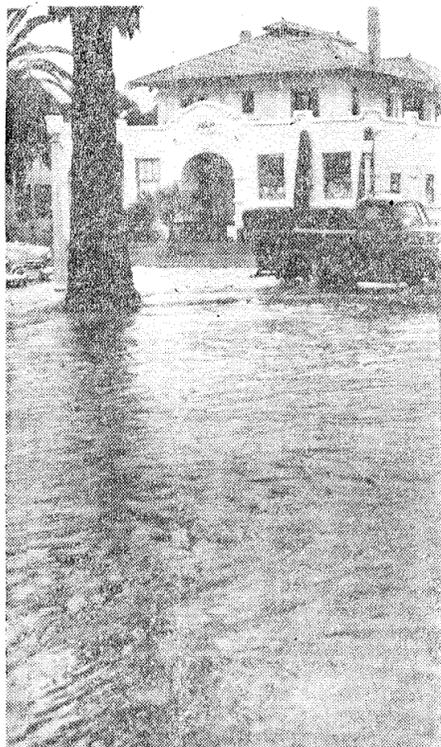
Nearly all the 60 families in housing units have been evacuated to higher ground. Water is standing in many of the houses.

The Agua Fria River was flowing three to four feet deep and 200 feet wide where it flows into the Gila River, south of Goodyear, and had carried away preliminary repair work started last week after the Glendale Avenue paved crossing was destroyed by a storm three weeks ago.

CIVILIAN AND military personnel were notified not to report for work at the base today. Every available man there is being drafted into dike repair duty.

Officials in the Public Information Office said that, if the dikes go, the base will be flooded completely.

The eastern section of the base already is under two feet of water



The rain provided Phoenixians with some sights that are seldom seen in the usually dry Valley of the Sun and each of the scenes had plenty of water. In picture at top left, taken near Encanto Park looking south on 15th Avenue, water is shown curbing-high and gushing out of opening to underground irrigation ditch. Pressure of water in irrigation ditch was board deep.

USUALLY DRY SALT RIVER PUTS ON RARE SHOW



Persons crossing Central Avenue bridge over the Salt River were treated to an unusual sight today. The usually dry riverbed was transformed into a raging torrent, result of heavy storm. Photo was taken west of bridge looking eastward.

High Spots Are Dry Spots; Scorpions Know That, Too

By **BOB LORD**

Just like humans, scorpions don't like to get their feet wet. That is why residents in the flood area were warned today to be on the look out for the lethal little insects in places where they ordinarily wouldn't appear.

The warning came from Jack Brammann, assistant to Dr. Herbert L. Stahnke of the biological science department of Arizona State College at Tempe.

"SCORPIONS WILL move to higher ground to avoid contact with water," Brammann said, "and that might mean the walls of your house or your closets."

Brammann said scorpions are rather lazy at heart, and ordinarily will go no farther

than necessary to escape and, if their instinct should lead them up a pole which eventually becomes covered with water, they probably will drown.

"The best advice I can give is the same given to pedestrians about to cross a street—look both ways, and, if you get hurt, at least you tried not to," Brammann said.

HE WARNED that rattlesnakes also seek high ground. But, since rattlers shun civilization, he didn't think their danger to Arizonians would increase perceptibly.

During the last siege of high water, a deputy sheriff in Gila Bend killed four rattlers on a high spot on the highway.

in places; the higher west side is free of standing water.

No planes have been able to get off the ground. If weather conditions permit, Col. Henry J. Amen, commanding officer there, plans to take a light plane up for an aerial survey.

MANY OF THE 60 families in the housing area will be moved to buildings on higher ground. Some, with children, already have taken the move.

Civilian cars and jeeps are stalled on lower streets on the base, but heavy trucks are getting around.

Operations at Williams Air Force Base were virtually at a standstill, with the road from the main gate to Higley Corner flooded.

About 1,500 civilian and military personnel were unable to reach the base.

Williams was closed to all flying except transit traffic and rated instrument pilots.

A cavein blocked the entrance into Country Club Manor from Thomas Road. While warning barricades had been placed at the entrance, where a pipe excavation was recently filled, a woman motorist attempted to drive through late yesterday, got stuck and had to be rescued by a tractor.

EMILY CORNELIUS, 54, of Luke Air Force Base Hospital, suffered bruises when a city bus driven by Fred Bender, of 3402 N. 16th St. and a coupe driven by Joseph T. Green, of 1010-D S Eighth Ave., collided on the wet pavement at Third Ave. and Monroe. She was taken to Veterans Hospital for treatment.

A sewer line broke on 19th St. between Adams and Monroe and city workers said they would not be able to repair it until the street was clear of flood water. At least one basement in the neighborhood was flooded, police reported.

Due to several water-filled holes, 16th Street was closed between Fillmore and Roosevelt.

Sandbags were used to hold water out of the Henry Company Market at 15th Ave. and Roosevelt.

Highway traffic to Southern California was seriously hampered by the storm.

WITH THE Phoenix-Yuma highway closed, traffic was being diverted by way of Casa Grande to Gila Bend, thence to Yuma, but the Arizona Highway Patrol warn-

ed the road was flooded in some areas and that it was considered dangerous.

Following is a summary of major highway conditions in the rainfall area:

U.S. 66—Road is open but water is high in dips and travel is considered hazardous.

U.S. 60-70, Blythe, Wickenburg and Phoenix—Road is open but dangerous.

U.S. 89—Phoenix, Wickenburg, Prescott and Flagstaff—Open but dangerous.

U.S. 80—YUMA, Gila Bend and Phoenix—Closed from Buckeye to Gila Bend. Remainder is open but extremely hazardous.

U.S. 84—Gila Bend, Casa Grande and Tucson—Open, but dangerous.

Phoenix-Tempe-Mesa—Open and in good condition.

U.S. 60-70—Phoenix, Superior and Globe—Open, but dangerous. Many rock slides through the mountains.

U.S. 60—Globe, Show Low, and Springerville—Open, but dangerous. Rock slides and water in dips.

U.S. 70—Globe and Safford—Open, but dangerous. High water in dips.

WITH THE Phoenix-Wellton line of the Southern Pacific washed out, all traffic was being routed from Yuma to Tucson by way of Gila Bend and Casa Grande. Phoenix-bound passengers were brought

to Phoenix from Casa Grande by bus.

In Phoenix, many storm waters that filled scores of streets from curb to curb yesterday afternoon had receded this morning.

Many automobiles were stalled, especially at the 5 p.m. rush hour. Some places of business were flooded. At others storekeepers blocked entrances with bags and used brooms to sweep away the approaching water.

THE SALT RIVER Valley Water Users Association released water from behind Granite Reef Dam and the Indian Head Turnout, north of Mesa, to create a reservoir that would take some of the flood waters.

The released waters, augmented by storm runoff pouring into the river between Phoenix and Mesa, created a fast, flowing stream in the river bed.

The water this morning was three and four feet deep over the paved river-bed crossings at 40th, 16th and Seventh streets, halting all traffic.

SHORTLY AFTER 8 a.m. the water reached the Central Avenue bridge. In a short time it was about 200 feet wide and several feet deep.

Passersby noted it was the first time in years that a heavy volume of water had been in the usually dry river bed. The water flooded several sand and gravel pits.

L. M. Hendon, 43, of 2723 E. Corona, was rescued from the 16th Street crossing over the Salt River early this afternoon, after his car stalled in the raging stream. Governor McCubrey, 28, of 1901 S. 16th St., threw him a rope and with the assistance of others pulled him to safety.

Earlier, the highway patrol rescued a man, his wife and two children after their car stopped in the Salt River crossing north of Mesa.

The Hassayampa River was roaring today as it seldom does. Water in the river where U.S. Highway 80 crosses it was up to the railroad trestle—about 10 to 12 feet deep.

ALL THAT RAIN IS FROM OCEAN

Where is all the rain coming from?

The ocean, says the weather bureau.

A hurricane is active about 85 miles southwest of Cedros Island, which is off the coast of Lower California. This hurricane is pumping up vast quantities of moisture from the ocean and is moving in a north and northwesterly direction at about 10 miles an hour.

Much of the water is being dumped around El Centro and San Diego, and some is expected to reach Los Angeles later in the day. The rain that has been falling here is a part of water picked up out in and driven inland.

FIVE NEW CURES FOR DEAFNESS

Literally millions of people are not as deaf as they think they are. Much of their disability can be overcome without resorting to any form of medication, hearing aids, or surgery!

Coronet reveals the remarkable conclusions of Dr. Victor Brown and associates at New York's Polyclinic Hospital, and those of other specialists who have worked wonders in curing or relieving deafness by means of amazing new discoveries. Read "Five New Cures for Deafness" . . . in

September **Coronet** Now on sale

You'll like Yellowstone Flavor - It's

TRADE SECRET: Sour is a costlier method of making finer whiskey. YELLOWSTONE 1872, has been made the old way. YELLOWSTONE'S old-t Bourbon flavor is preferred those who know good whis-

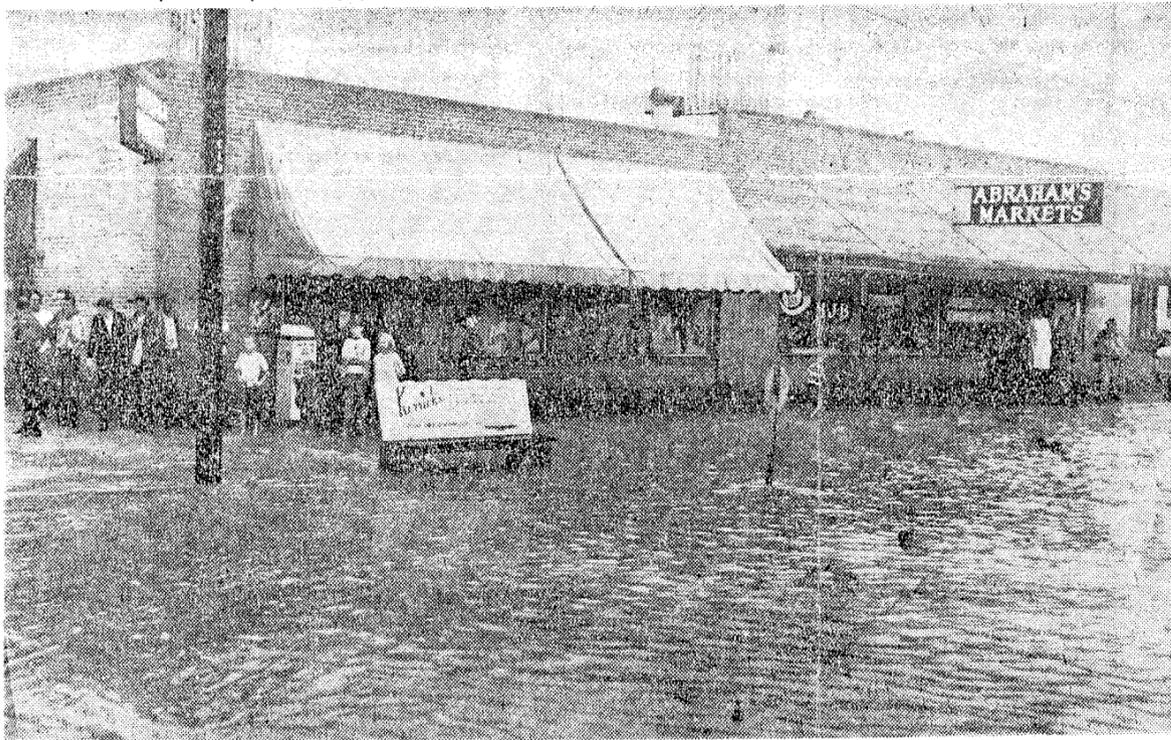
YELLOWSTONE
 KENTUCKY STRAIGHT BOURBON
 100 BOTTLES

NEW FLOODS THREATEN; HUNDREDS FLEE HOMES

RED CROSS BRINGS HELP IN GOODYEAR FLOOD



Manor residents driven from homes by Goodyear flood refuge in Avondale School, where Red Cross provided food. Pictured (from left) are Peggy Weller, 2, her brother, Tommie, 4, and mother, Mrs. Marvin Weller; and Mike Patrick, 3, and mother, Mrs. James Patrick. The women's husbands are stationed at Luke Air Force Base.



Residents stand in front of Oz Bowman's Drug Store, and Avondale roads, and watch waters swirl by. Store owners in district stayed up during night in futile effort to keep flood out of their establishments.

Water 2 Feet Deep Rolls Into Goodyear

More Rain Is Forecast For Valley; Auto Plunges From Canal Bridge

By LEN WELCH

With additional rains forecast for today and tomorrow, preparations were being made in the thoroughly drenched Valley of the Sun to face new emergencies.

Floods already have driven more than 200 Goodyear families from their homes, forced evacuation of 120 families from Luke Air Force Base and caused damage that is expected to run into hundreds of thousands of dollars.

Here is the situation in brief as it affects the Valley and its residents:

ALMOST ALL of the families in the Westward Manor area of Goodyear have been driven from their homes, with water two feet deep in many places.

About 120 families at Luke Air Force Base have been evacuated and are being housed in Glendale and Litchfield temporarily.

The Maricopa Chapter of the American Red Cross has set up emergency stations to feed and house the evacuees.

An estimated 40 persons from Phoenix have been isolated at the City of Phoenix summer recreation camp at Horseshoe Basin by two washouts on the one road leading to the camp.

FEAR WAS expressed that the flood may have claimed its first lives when a car went off a bridge over a Roosevelt Irrigation District canal three miles west of Litchfield and two miles north of Avondale and was washed one-half mile down stream.

The sewer system at Luke Air Force Base was broken by the flood, and the water system was polluted. Water needed for drinking purposes was being boiled, and purifying tablets were used. Medical officers were considering giving personnel typhoid booster shots to prevent an epidemic.

Near-cloudburst conditions prevailed at various times throughout the day at Litchfield Naval Air Facility, where water was six inches to nearly three feet deep. Airplane de-preserving and other operations were at a standstill.

The Hassayampa River was running six feet deep at Wickenburg and rising at the rate of six inches an hour, posing a new problem for areas in the path of the stream.

THE NEW RIVER and Agua Fria River, which converge north of Goodyear, were reported receding slowly this afternoon.

The Gila River was running high below the points where the Hassayampa and Centennial Wash run into it.

The United States Weather Bureau this afternoon rescinded an earlier forecast that high winds would strike the Valley as part of the state-wide storm, but stood by its prediction of continued rainfall.

Winds of 25 to 30 miles per hour will prevail in mountain areas but are not expected to hit the lower desert areas, the weatherman said.

A brisk rain fell in downtown Phoenix during the morning and the weather bureau said light to moderate rain would fall tonight and tomorrow, with occasional heavy showers.

The rain is expected to extend to most parts of the state.

Phoenix added .80 inch of moisture to its rainfall in 24 hours to 5.30 a.m. today. Showers this morning brought the storm total to 3.76 inches downtown, 4.13 at the airport.

Traffic on the Southern Pacific line between Phoenix and the west still was held up by washouts, and trains were being re-routed.

Santa Fe officials said the road bed between Phoenix and Wickenburg was being patrolled to guard against washouts.

Highways in many areas around the state were impassable or so

Storm Runoff Helps State Farm Outlook

By C. M. McMILLEN

Irrigation storage water gains of 109,000 acre-feet, with additional floods plunging down the rivers to reservoirs, today promised major dividends for Arizona farmers.

Salt River Project's chain of storage lakes up the Verde and Salt rivers held back 67,500 acre-feet more water today than yesterday, for a total net project storage of 89,083 acre-feet.

WATER USERS officials today boosted their storm runoff forecast of 150,000 acre feet—replenishing reservoirs that were almost dry.

As striking as the Salt River Project's gain was that of the Beardsley Project, Maricopa County Water Conservation District,

STORM TO DATE

Alhambra	2.46
Bar T Bar Ranch	6.27
Blythe, Calif.	4.19
Douglas	2.23
Flagstaff	3.38
Gila Bend	4.32
Grand Canyon	2.19
Jerome	2.22
Mesa Experimental Farm	3.64
Miami	4.90
Mormon Flat	3.80
Needles, Calif.	2.92
Nozales	1.55
Payson	6.45
Phoenix (Downtown)	3.76
Phoenix (Airport)	4.13
Pinat Ranch	6.23
Prescott	2.41
Reno Ranger Station	7.97
Roosevelt	3.67
San Carlos	4.14
Stewart Mountain Dam	2.97
Sunnyslope	3.31
Tempe	3.40
Tonto Fish Hatchery	6.76
Tucson	.72
Winslow	1.22
Yuma	1.44

northwest of the Salt Project, with 40,000 acre-feet gained in 24 hours and storage today 58,200.

A smaller gain was made by the San Carlos Irrigation Project, which gets its gravity water from behind Coolidge Dam. The San Carlos Reservoir of the project gained about 2,000 acre-feet for a total of 5,800.

W. W. PICKRELL, president of the Salt River Valley Water Users Association, cited the fact that the Water Users are storing kilowatts of electricity behind their dams, as well as water for future irrigation. Hydroelectric generating plants, yielding but minor output with reservoirs almost dry, will add dual-value returns when the water now being stored is ordered by farmers for irrigation—and makes electric power as it flows.

Farmers may be expected to increase their plantings of grain sorghums and alfalfa this fall, with more water available, said John H. O'Dell, county agricultural agent.

O'Dell added that overall gains in the cotton crop from plentiful

PICKET FENCE SUBMERGED



Gazette Staff Photo

H. Wayne McClanaghan, member of Goodyear Volunteer Fire Department, and Jim King, building contractor, discuss flood while standing by nearly submerged picket fence in front of King's Goodyear home, 113 Santa Cruz.



Gazette Staff Photo

Disconsolate Rudy Sovob, 104 Las Flores, surveys water damage in flooded living room of Goodyear home. He had piled some furniture atop chairs and tables to protect it from water which reached maximum height of 18 inches. Mrs. Sovob, visiting in California, didn't know of misfortune.

Here Are State Road Conditions

The Arizona Highway Patrol this afternoon reported state road conditions as follows:

Wickenburg to Prescott (U. S. 89), closed except for emergency traffic. Rockslides have blocked Yarnell Hill.

Phoenix to Blythe (U. S. 60-70) open, but motorists are advised to use caution at dips.

Buckeye to Yuma (U. S. 80), closed.

Phoenix to Williams Air Force Base, open.

Phoenix to Luke Air Force Base, closed.

Tucson to Ajo (State 86), closed.

Black Canyon Road, impassable.

Phoenix to Casa Grande, dangerous but passable.

Casa Grande to Gila Bend (State 84), open but hazardous. Tourists were warned to avoid this route; accommodations not available in Gila Bend.

Phoenix to Tucson (through Florence Junction), open, but caution advised.

Phoenix to Buckeye (U. S. 80), open.

Phoenix to Litchfield Park, closed.

Kingman to Needles (U. S. 66), closed.

Storm-Stalled Auto Prowled

Earl Moore, of 1701 W. Carol, a guard at Reynolds Metals Company, told police three rolls of film, a knife, and a wrench were stolen from his car when it was stalled in the mud at Seventh Avenue and Osborn last night. The theft took place after he left the vehicle to call a tow truck.

Two boys fled in the rain down an alley after snatching a purse from Katherine Illiash, of 122 N.

Flood

Concluded From Page One

strewn with debris and rocks that travel on them was not advised.

GILA BEND was filled with tourists from the west who were unable to travel the road to Phoenix and were advised that the road to Casa Grande was in dangerous condition.

The Salt River still was gushing under the Central Avenue bridge here today, and sheriff's deputies were stationed at the 40th, 16th and Seventh Street and 19th Avenue and Lateral 17 crossings to block traffic.

Because of the pressure of work necessitated by floods, deputies have been working around the clock.

The Red Cross was making plans for an emergency drop of food to six families reported marooned in the Gila Bend area.

TO MEET THE emergency created by the flooding at Goodyear, the Red Cross converted the gymnasium of Avondale School to evacuation headquarters for persons flooded out of their homes. They have set up cots for about 200 persons and have food for 600.

Kenneth Kelley, manager of the Maricopa chapter, and Mrs. Alice Phillips, directed of the Junior Red Cross and branch services, went to the area to direct operations. Mrs. Virginia Tamplan, regular cook at the Avondale School, returned to work two weeks ahead of schedule to assist in the emergency.

Goodyear's Westward Manor, where the water was deepest, houses mostly military and navy personnel from Litchfield Naval Air Facility and Luke Air Force Base. The water extended about four blocks.

FRANCIS DONNELL, former Associated Press Staff man, said water in Westward Manor was two feet deep in some homes.

Part of Goodyear's business district was still dry this afternoon.

Sections of Goodyear near Las Flores Drive and Santa Cruz Avenue also were hard hit. Floors in residences were covered with silt.

Water at the home of Foyal Wilden, 100 Santa Cruz, was more than two feet deep at one time, and cane chairs were floating on the sun porch.

GOODYEAR residents started preparing for flood waters yesterday afternoon, but efforts to keep their homes dry by use of mattresses and sand bags proved futile. At 5 p.m. the town siren sounded a warning that water was reaching a dangerous depth, and residents started moving to higher ground.

While parents worried about damage to their homes and whether or not their damage would be covered by insurance, the children were having fun in the water, splashing about and making rafts out of lumber that floated in the area.

All of the families of personnel at Luke Air Force Base had been evacuated today by bus. They were being housed at homes and motels and the Civic Center in Glendale and in some homes in Litchfield Park.

MOST OF THE dependents were moved last night after floors were covered with silt, the sewer system went out and safe water was not available. Officials at the base said sanitation facilities and well pumps were expected to be back in service by tonight.

Only vitally-needed personnel, including medical men, squadron commanders, and food service handlers, were asked to report for duty, and Col. Henry J. Amen, commanding officer, requested that visitors and curiosity seekers remain away from the base.

Flying operations were at a standstill at the base because of debris left on runways.

ALTHOUGH THE base was prepared to do what it could to meet another onslaught of water from the White Tank Mountains—and there were reports that another flood crest might hit the base later today—Colonel Amen said, after an aerial survey, that he did not see any great amount of water accumulating in the foothills.

City officials said it may be a week before persons stranded at the Horsethief Basin recreation area can be evacuated. There are two washouts on the road to the camp. One is three miles from Crown King and has isolated that small community on the road to Horsethief Basin. The second is about a mile from the Basin and has isolated that area from Crown King.

RICHARD E. RHODES, of 4814 E. Virginia, who has been building a cabin in the area, tried to reach there yesterday but was stopped by a washout and landslide before he arrived at Crown King. He was told by Crown King residents who had walked up the other side of the washout that the road also was out for 300 feet about a mile from the camp.

IF IT WEREN'T FOR YOU-



Gazette

Six-year-old Linda Marsh, daughter of Mr. and Mrs. Pe 27 W. Forest Grove, has a sincere look of appreciation Bynum, 11, of 3501 S. Central, after the latter saved probable death in waters of the Salt River, below the Avenue bridge yesterday. Riley jumped into the fa current, grabbed Linda and managed to stay afloat until were lodged against a log (left background). A hum was formed to bring them to safety.

would come the task of repairing the longer washout nearer the camp.

Park officials said there is some food in the camp commissary but not enough to last for an extended time.

O. H. PETERSON, park maintenance superintendent, was to leave for the area this afternoon or tomorrow in an effort to bring food to those stranded.

Names of the persons isolated were not available, but the parks department said it had scheduled reservations for a C. E. Swift, 2608 W. Luke; Mrs. M. Baldrige, 3441 E. Van Buren; Rodney Hammond, 2209 E. Windsor; Warren B. Frye, 533 W. Monte Vista; Mrs. E. L. Peake, 522 W. Coronado; Mrs. Paul Morris, 3844 N. 13th Ave., and Mrs. V. K. Gaskins, 1307 W. Adams.

Whether these people had left before the washouts could not be learned but Rhodes said there were many families there when he left Sunday.

RHODES ESTIMATED that there were about 40 men, women and children in the parks area and in privately-owned cabins there.

About 15 persons live in the community of Crown King.

All military personnel at Litchfield Air Facility have been or-

dered back to duty, but were advised to stay here.

Many families of service men and the Litchfield were among those evacuated to the Goodyear area. They expected to sleep tonight at the Avondale school library auditorium, provided with blankets from the Red Cross.

A MEDICAL check of the area and children evacuated by the Red Cross navy doctors.

Kelley, Maricopa Chapter manager, said for emergency food, clothing and shelter will come from emergency funds of the Red Cross, to which a recently was contributed for relief of Kansas flood.

No one in Avondale, and Litchfield areas will get rehabilitation of damage and houses, Kelley said.

TELEPHONE operators at Luke received relief this afternoon after manning busy switchboards since Sunday without getting any rest. They were conveyed out of the area and servicemen took over the switchboards.

The flood was giving trouble to States Telephone Co. trouble. There were no isolated areas, it

Three River Projects Show 255,000 Acre-Foot Gains; Damage Passes \$500,000

Truman Calls Effort To Cut Foreign Aid Misplaced Saving

WASHINGTON, Aug. 30 (AP)—President Truman said today the congressional effort to cut \$1 billion from his \$8,500,000,000 foreign-aid request is misplaced economy when success of the program is in sight.

The President told a news conference that prospects of restoring the proposed cut looked rather hopeless and it is a serious situation. He also told reporters:

1. UNITED NATIONS forces in Korea are stronger now than when the Kaesong truce talks began.
 2. The case of William N. Oatis, AP correspondent imprisoned in Czechoslovakia on spy charges, will never be closed until the reporter gets out of jail.
- Asked if he intended to do anything more to win approval of his entire foreign-aid proposal, the President said he has done all he possibly can.
- He said the administration at the outset in 1947 figured at least \$17 billion would be needed over four years to help Europe stave off Red aggression, and so informed congress.
- HE SAID THE last request for \$8,500,000,000 would bring the total to date up to \$14,500,000,000.
- He contended the economic improvement of Western Europe would be immensely aided under the full program. He added it also

hurry about it. He said such things have to be done deliberately.

MR. TRUMAN SAID that on his return from the San Francisco Japanese treaty ceremony he will participate in dedicating a reserve armory in Kansas City, Mo., and will take another look at the Missouri-Kansas area devastated by recent floods.

On other points, Mr. Truman: Said he didn't know whether there would be a reshuffling of economic stabilization agencies until after a final analysis of the new economic control bill under which they operate.

Refused to comment on the rejection by India of an invitation to attend the Japanese peace treaty signing.

Widespread Rains Promise Lift To Crops

Drying-Out Period Forecast; Canals, Roads Take Beating

By LEN WELCH

Heavy rains which fell in Arizona for four days caused damage in excess of \$500,000 but left benefits which agricultural authorities said today would be reflected in the Valley of the Sun's economy for months to come.

As the weatherman forecast a drying-out period and victims in the path of the flood started cleaning up the mess left by flood waters, these benefits stood out prominently in the picture:

WIDESPREAD RAINS in the watersheds sent torrents of water into reservoirs that will provide Valley farmers with an unexpected abundance of water for the fall crops and provide a backlog for spring.

Irrigation storage waters had gained about 255,000 acre-feet from the storms up to today on the Salt River Project, the Beardsley Project, and the San Carlos Project.

Salt River Project had gained 150,000 acre-feet of net storage since the storm began, to put 157,938 of net storage to the shareholders' credit. Beardsley Project today was 98,404 acre-feet at Lake Pleasant, which was almost dry before the storm, and San Carlos Project reported 7,238 acre-feet of

Furious Red Drive Launched In Korea

North Koreans Send Waves Of Fresh Troops Into Action; All-Out Drive May Be In Prospect

EIGHTH ARMY HEADQUARTERS, Korea, Friday, Aug. 31 (UP)—North Korean shock troops opened a ferocious attack on United Nations positions on the east-central front at 6:30 p.m. Thursday. At last reports the Communists were throwing waves of fresh troops into the battle under a deadly rain of fire from allied artillery and planes.

Up to 2,000 Communists made a frontal attack on the U.N. lines on "Bloody Ridge" north of Yanggu, where fighting has raged since Aug. 13.

The Reds first tried to infiltrate the allied lines. They had little luck and launched their frontal attack in the evening. During the

Copper Strike Action Awaits

WSB Report

WASHINGTON, Aug. 30 (AP)—President Truman today declined to indicate what plans the government may have for dealing with the nationwide copper strike.

When reporters tried to draw him out on it at his news conference, Mr. Truman said he had not yet received a report from the Wage Stabilization Board. He said he couldn't comment until he knows what's in the board's report.

SOME GOVERNMENT action soon was generally anticipated since the Office of Defense Mobilization has said the strike is a serious threat to the mobilization program.

The Wage Stabilization Board stepped out of the controversy late last night after the Mine, Mill and Smelter Workers Union refused to call off the strike.

A spokesman said the board would report to Mr. Truman today on the negotiations he asked

Turn to COPPER on Page 2

Asked about proposals to take administration of part of the program out of the hands of Secretary of State Acheson, the President said it is the business of the executive to carry out the wishes of congress and that is the way it will be done.

He said he is 100 per cent behind Matthew Ridgway's statement on the Korean situation. He is U.N. commander in chief.

OATIS QUESTION came up in connection with a statement by the new Czech ambassador, Vladimir Prochazka, that the case is closed as far as courts are concerned.

The President described Moscow reports accusing the United States of trying to start World War III as nothing new. He added that, of course, and, like all Soviet propaganda, it is on fact.

He intended soon to correspond with the Russians regarding the dispute between the American people, he said he had said recently on that there is no

strikes.

LATER REPORTS said the Communists were throwing fresh waves of troops into the action as fast as they removed their casualties and were trying to jam allied front-area radio transmitters. This is usually the signal that an all-out attack is in prospect.

One Red unit slipped through U.N. positions north of Yanggu on the east-central front last night and forced an allied command post to withdraw, but a counterattack routed the enemy.

SIXTY OTHER North Koreans were intercepted and killed by an allied tank northwest of Yanggu.

Clear skies enabled U.N. fighters and fighter-bombers to hit Communist railway lines and marshalling yards throughout North Korea.

B-29 Superfortresses led the parade of destruction with a 50-ton raid on the yards at Yongmi, north of Sinanju in northeast Korea.

The air forces announced belatedly the loss of two planes in Wednesday's raids. One was a twin-jet British Meteor, the first lost since the new-type planes

Picture On Page 26

ization has said the strike is a serious threat to the mobilization program.

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Turn to COPPER on Page 2

Haircuts Go To \$1.25 In Phoenix

It's going to be more expensive to say "shave and a haircut" to your barber starting Tuesday.

Effective that day haircuts in Phoenix will cost \$1.25 instead of \$1, and shaves will be \$1 instead of the 75-cent rate now prevailing. For other tonsorial treatments the price will remain the same.

A spokesman for Barbers Local 628 who declined use of his name said, shop owners had voted to increase the price. He made the announcement in the absence of L. E. Moye, business agent who is out of town.

STORM TO DATE

(Watershed Stations reported by Salt River Valley Water Users Association)

Bar-T-Bar	7.55
Granite Reef	4.74
Mormon Flat	4.26
McNary	3.60
Maverick	4.00
Payson	4.77
Pinal Ranch	4.73
Pleasant Valley	7.23
Red Ranger Station	8.33
Roosevelt	3.94
Salt Intake Station	4.17
Stewart Mountain Dam	7.35
Tonto Creek Fish Hatchery	8.70

(United States Weather Bureau official station reports)

Deer Valley (northwest of Phoenix)	8.75
Flagstaff	3.93
Gila Bend	4.43
Grand Canyon	2.69
Litchfield	4.00
Phoenix (downtown)	3.80
Phoenix (airport)	4.20
Prescott	2.62
Sunnyslope	3.88
Tempe	3.93
Wickenburg	6.31
Winslow	1.30
Yuma	1.44

storage, a gain of almost 1,400 in 24 hours.

The price of these benefits: Damage from the storm, most of it in the Valley, was estimated at more than \$500,000. A large part of the Maricopa County road system was washed out and the county engineer's office estimates damage might run as high as \$150,000; cement linings of the Wellton-Mohawk Canal were washed out, and damage was fixed at \$100,000; Arizona Highway Department officials said it would cost about \$100,000 to put the state highways back in shape; the American Red Cross, Maricopa Chapter, gave a conservative estimate of \$5,000 of damage caused yesterday by flood waters in the Goodyear area, and Luke Air Force Base damage neared the \$100,000 mark.

THERE WAS other extensive damage, but it was not possible to obtain a dollar estimate of the amount. The Southern Pacific was hard hit by bridge and roadbed washouts and an engine and five cars toppled into one washout. Extensive repairs will be required between Phoenix and Wellton, and the total damage will not be learned until this has been completed, officials said.

The Goodyear Aircraft Corporation and the Litchfield Naval Air Facility, many ranch homes and

Turn to STORM on Page 10

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**County Flood
Control Meet
Set Sept. 16**

A county flood control meeting is set tentatively for Sept. 16 at Litchfield Park, D. P. Kimball, supervisor, said Wednesday.

A solution to flooding on the county's west side will be sought.

Kimball said vegetable growers and other farmers and ranchers, irrigation officials, military authorities, and soil conservationists have asked to sit in.

Kimball said the talks will include:

Method of control, whether a series of dams and dikes to impound water, or a new canal system to shunt floodwaters into New River.

Method of financing, whether by individual contribution or federal money or both.

Kimball said he believed \$1,400,000 could be raised from farmers of more than 70,000 acres of land, railroads, canal companies, and the county.

All were badly hurt twice this summer when floods tore out fields, roads, railroads and canals in the area west of the Agua Fria River.

Golden Deluge Enriches Farms And Rangelands

(Continued From Page One) water into these areas and control it to prevent flooding.

JAKE WEST, veteran chief hydrographer for the Water Users — never one to get optimistic about the weather in Arizona — was less excited. Jake has seen Arizona storms come and go for too many years.

"There's nothing spectacular about it," was West's evaluation. "Wait until Monday and you can get a better picture of what it means."

And West, with his finger on the flows of Arizona's rivers for a good many years, spoke with wisdom, because the total gain in storage up to Friday night still was less than 10,000 acre-feet, and all of the optimistic hopes were based on continued flow of the rivers.

HOWEVER, with soaked watersheds above the dams, this offered promise.

Salt River, flowing 321 second feet Thursday, was up to 585 Friday morning and just before noon a downpour right at the gauging station, kicked it up to 6,000 second feet for a few minutes, but that flash flood didn't mean over 200 or 300 acre feet because it was over as quick as it started.

The most encouraging thing about the Salt was that its flow came on up by 6 p.m. Friday to 778 second feet, and a good flow was reported coming down Black River at the Phelps Dodge pump station some 50 miles upstream.

TONTO CREEK, flowing 126 second feet Thursday as a result of the flash storm near Payson,

dropped down to 26 second feet Friday morning. But by 6 p.m. it had come back up to 80, and was flowing in four channels into Roosevelt Lake.

The Verde River, boosted by the Payson area storm, was 215 Thursday morning, went up to 610 by Friday morning, but was dropping fast. It was down to 298 second feet at 6 p.m. Friday.

The Valley was not completely relieved of drouth, but enough water was in sight for another irrigation for cotton, and to assure enough for lettuce planting, but only with all wells working. There certainly wasn't enough on hand for the Water Users to restore the half acre-foot cut made in the two acre-foot allotment earlier this year.

W. W. PICKRELL, president of the Water Users, and **R. J. McMullin**, general manager, flew over the Valley Friday afternoon to get a picture of water distribution while every facility of the project's irrigation system was being geared to spread as much of the floodwater as possible on the land so the excess would go into the underground.

Both were well pleased. "We had the Valley covered like a blanket," said McMullin. "All of our laterals were handling capacity quantities."

Most of the Friday floodwaters originated on the surrounding desert below storage dams, and came in such a rush that canals could not carry it during the morning and early afternoon.

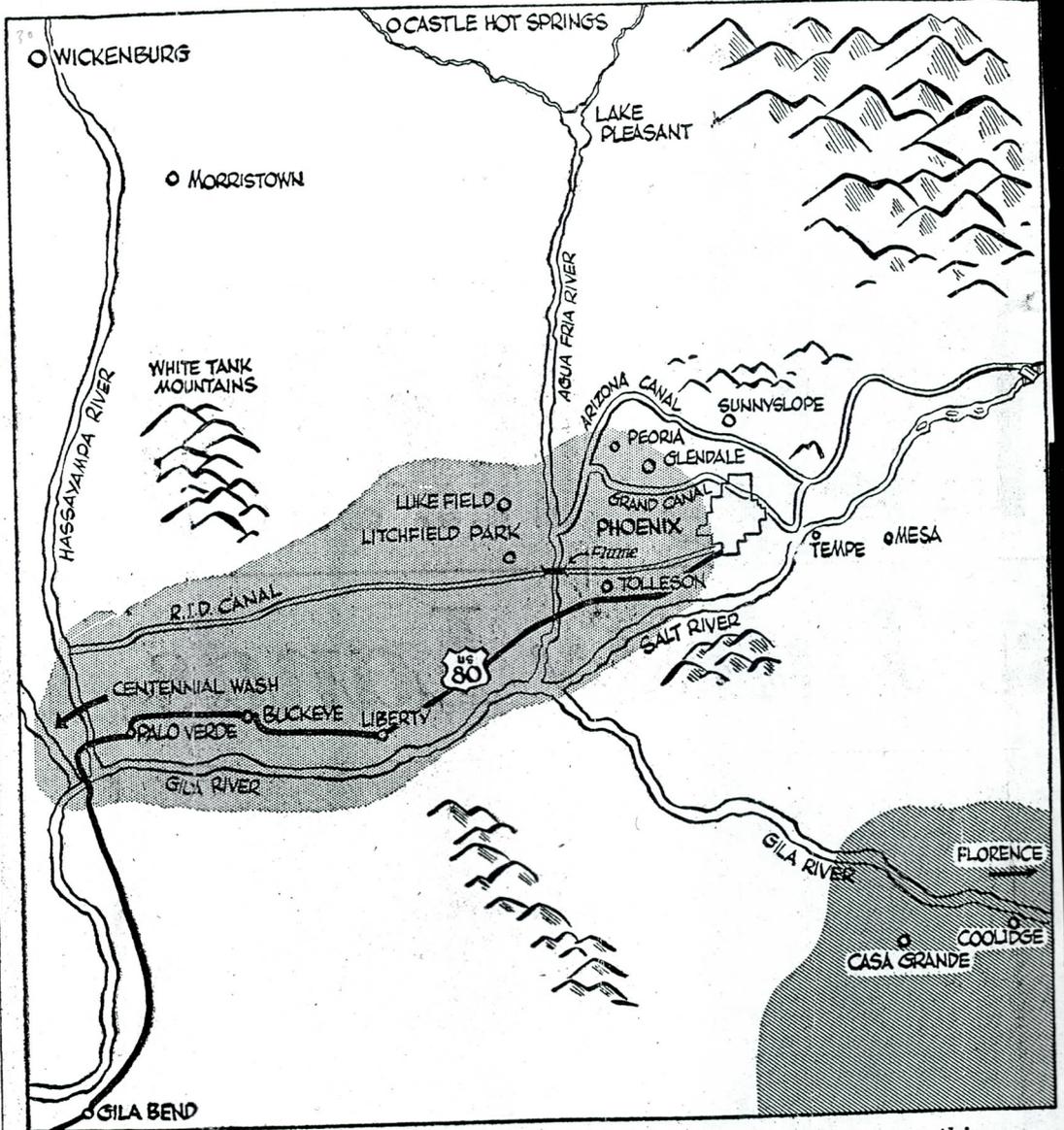
THE WATER USERS had to dump water out of the Arizona Canal at Evergreen and Indian Bend east of Scottsdale, and for a time Cave Creek went over the canal farther west.

But as soon as the flow decreased to where the canals could carry the water, this was stopped. Then, the Arizona Canal was carrying such a load that some water was being dumped out the end of it into the Agua Fria, and at Jointhead near Tempe some water had to be released to go on down Salt River.

Atlantic Ocean Hit By Tropical Storm

MIAMI, Fla., Aug. 3 (AP)—A small but growing tropical storm lashed the Atlantic with 60-mile winds Friday night 1,260 miles east of Cape Canaveral, Fla. It offered no threat to the U.S. coastline. Its northwestward movement at 18 miles an hour will swing it past Bermuda Saturday.

DENTAL PLATES



Where Floods Hit Much of the area hit by the storm is shown on this map. The shaded section on the left received the heaviest rainfall and the bulk of piled-up flood waters. The Hassayampa River, Centennial Wash, and the Agua Fria River, all normally dry, were heavily swollen Friday. The Roosevelt Irrigation District Canal broke its banks two miles east of Buckeye, causing more water to flow into already heavily-flooded areas. Shaded section in the lower right corner is the area threatened with floods from the swollen Gila River. (Map by Kearney Edgerton, Republic Staff Artist)

Flash Floods Hit Valley Area

(Continued From Page One) spokesman said this was probably due to the fact that most residents were sleeping without coolers and were thus unaffected by power failures.

Some damage was caused by lightning which threw an overload of power on lines, blowing out transformer fuses.

A TRANSFORMER pole at Valley Lumber Company, 1520-W. Van Buren, was struck twice by lightning shortly after midnight Thursday, wrecking the transformer, circuit breaker and lightning arrester.

Glendale, Tolleson, and Buckeye reported store floors in some sections were covered with water.

Heavy rains in the Yuma area covered the desert with water.

Payson and Miami both had heavy showers. In Miami an estimated 1,000 tons of rock and debris were swept into city streets. A severe hailstorm ripped roofs from buildings near Douglas and at Tucson. Repairs continued on storm damaged power installations.

ACCELERATED stream flows were reported in the Salt, Verde, and Gila Rivers.

The Glendale Police Department reported that streets there had as

a stream and shops had water on the floor.

Flagstaff, Prescott, and Winslow reported heavy rainfall.

MAJ. GEN. A. M. Tuthill, adjutant general of the Arizona National Guard, sent a jeep crew to survey flood damage west of Phoenix to be prepared in case the guard should be called in to help.

West of Buckeye, Centennial Wash, and the Hassayampa River, both normally dry, were running deep and wide. A break was reported in the Roosevelt Irrigation District's main canal two miles east of Buckeye.

The swollen Agua Fria River, which contributed to the Luke Air Force Base flood, also poured water over irrigated fields in the Tolleson area.

BELOW BUCKEYE, the Gila River was overflowing its banks into the Arlington Canal. Woody Killman, deputy sheriff at Buckeye, said further rains would prove serious to that community.

A bridge on Lateral 21 over the RID canal was reported down. Water covered the bridge over the canal on Litchfield Road. On Lateral 27, between W. Van Buren and Highway 80, about a dozen homes were flooded and many wells had caved in.

its system of canals. However, water was released from its Arizona Canal at several points to avoid damage to walls. One of these was where the Cave Creek Wash hits the canal just east of 19th Avenue. Water spilled out of the canal at that point rushed south along 19th Ave. flooding roads and some homes.

IN HIS WARNING to Florence residents, Jurwitz said 1.62 inches of rain fell Thursday night at Kelvin south of Ray on the Gila River. The river stage was at 5.5 feet Friday morning. He said residents of the lowlands should be ready to evacuate in the event the Gila overflows its banks.

Water poured through the Salt River bed in Phoenix all day Friday. Much of this was from spillage from the Arizona Canal at Indian Bend, where the water was diverted to relieve pressure on the canal.

THE RIVER could not be crossed between Tempe and Central Avenue bridges.

Lyle Warnock, project engineer for the San Carlos Irrigation District, said late Friday that the Coolidge area apparently was not in danger. But he added that all wires were down in the Mammoth and Hayden areas, thus leaving