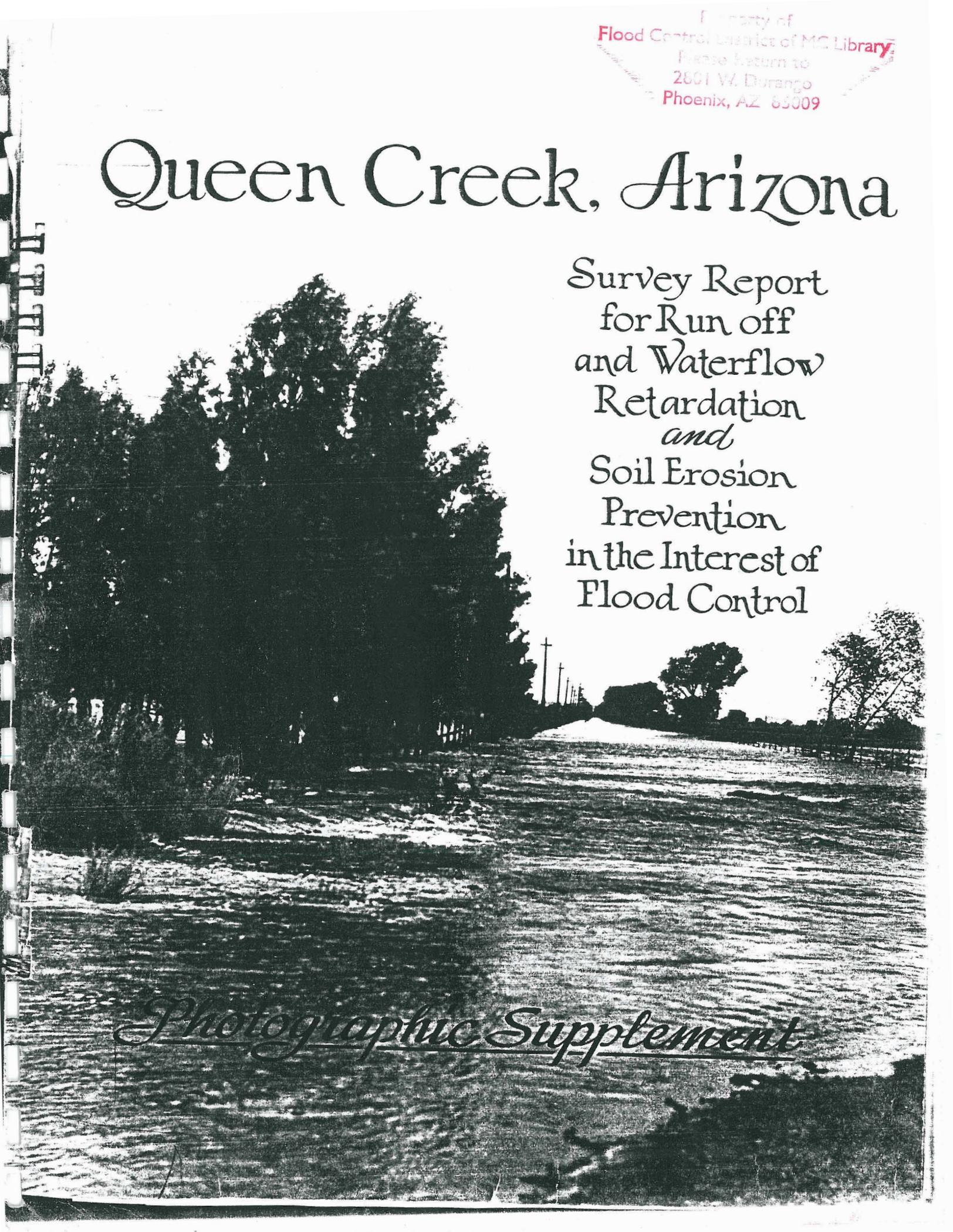


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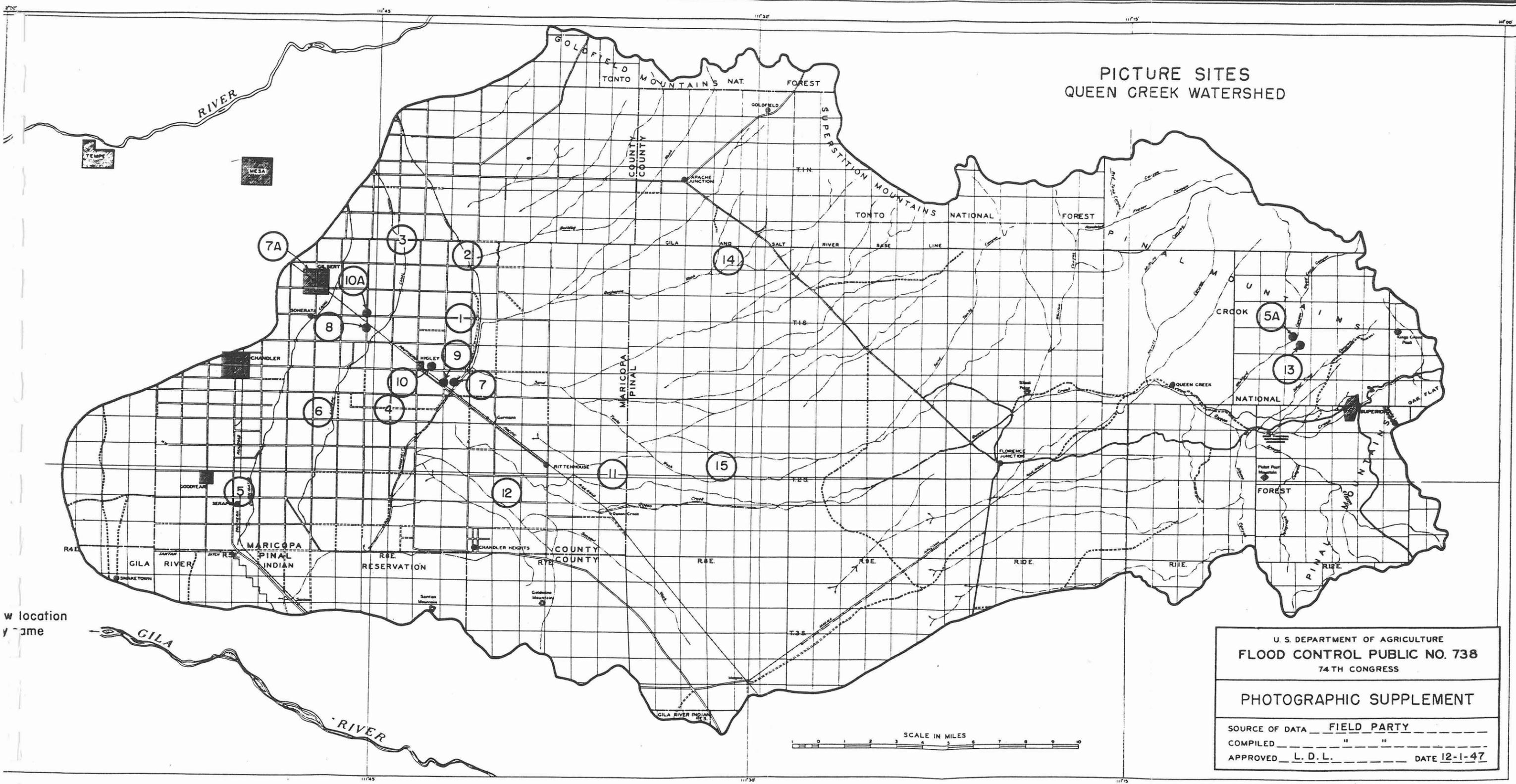
Queen Creek, Arizona

Survey Report
for Run off
and Waterflow
Retardation
and
Soil Erosion
Prevention
in the Interest of
Flood Control

Photographic Supplement



PICTURE SITES
QUEEN CREEK WATERSHED



w location
y time

U. S. DEPARTMENT OF AGRICULTURE	
FLOOD CONTROL PUBLIC NO. 738	
74TH CONGRESS	
PHOTOGRAPHIC SUPPLEMENT	
SOURCE OF DATA	FIELD PARTY
COMPILED	" "
APPROVED	L. D. L. DATE 12-1-47





FIGURE 1. A COUNTY ROAD, 2 MILES NORTHEAST OF HIGLEY, BADLY DAMAGED BY THE SEVERE FLOOD OF SEPTEMBER 8-11, 1933.



FIGURE 2. DAMAGES TO THE ROOSEVELT IRRIGATION CANAL (FOREGROUND), CITRUS ORCHARD, AND ROAD (BACKGROUND) CAUSED BY THE HEAVY FLOOD OF JULY 1936.



FIGURE 3. DAMAGE TO EASTERN CANAL BELOW LATERAL 6.5 DURING FLOOD OF JULY 1936.

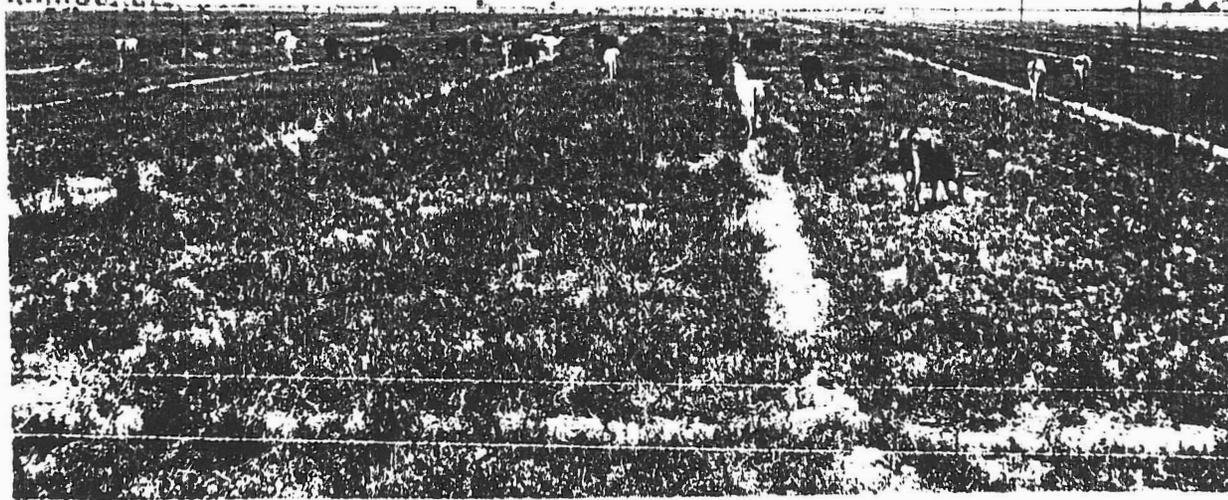


FIGURE 3A ALFALFA PASTURE BEING USED IN WINTER CATTLE-FEEDING OPERATIONS.
IN ADDITION TO PASTURAGE, 5 TONS OF HAY (FROM 5 CUTTINGS) ARE OBTAINED PER
ACRE PER YEAR, AVERAGING 1 TON PER CUTTING.

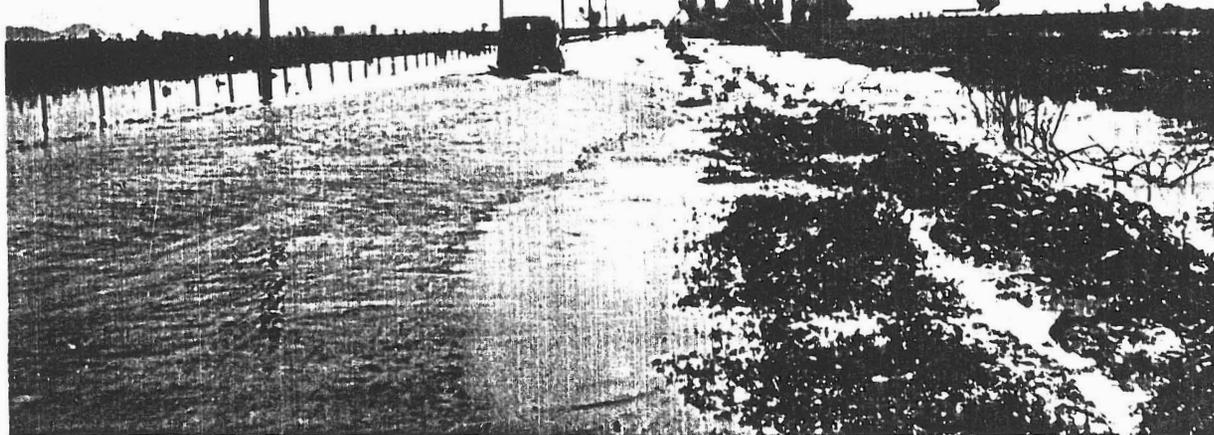


FIGURE 4. ROAD AND ADJACENT FARM LAND UNDER WATER, MARCH 1941. NOTE DAMAGE
PHONE LINE ON RIGHT. PICTURE TAKEN ON ROAD BETWEEN SECTIONS 3 AND 4, TOWNSH
2 SOUTH, RANGE 6 EAST.



FIGURE 4A CITRUS ORCHARD IN THE CHANDLER HEIGHTS
CITRUS IRRIGATION DISTRICT, QUEEN CREEK WATERSHED.
THE TOTAL ACREAGE OF THIS FRUIT CROP WITHIN THE
WATERSHED IN 1945 WAS 4,000 ACRES. CITRUS LANDS
ARE VALUED AT FROM \$400 TO \$1,500 AN ACRE.



FIGURE 5. FLOODWATERS POURING OVER PHOENIX-TUCSON HIGHWAY SOUTH OF CHANDLER, ARIZONA DURING FLOOD OF MARCH 1941. TRAFFIC WAS BLOCKED FOR ONE DAY. TRACTOR WAS LOCATED IN SW CORNER OF SECTION 22, TOWNSHIP 2 SOUTH, RANGE 5 EAST.



FIGURE 6. FARMHOUSE AND CROPLAND DAMAGED BY FLOOD OF MARCH 1941. SOUTHWEST
CORNER OF SECTION 6, TOWNSHIP 2 SOUTH, RANGE 6 EAST.



FIGURE 7. FARM LAND INUNDATED BY FLOOD OF SEPTEMBER 1946 IMMEDIATELY BELOW BREAK IN ROOSEVELT WATER CONSERVATION DISTRICT CANAL. W $\frac{1}{2}$ SECTION 36, TOWNSHIP 2 SOUTH, RANGE 6 EAST.



FIGURE 7A FLOODWATERS IN THE TOWN OF GILBERT, SEPTEMBER 1933, QUEEN CREEK
WATERSHED, ARIZONA.



FIGURE 8. CROPLAND DAMAGED AND TRAFFIC BLOCKED DURING FLOOD OF SEPTEMBER 1946 BETWEEN SECTIONS 20 AND 21, TOWNSHIP 1 SOUTH, RANGE 6 EAST.

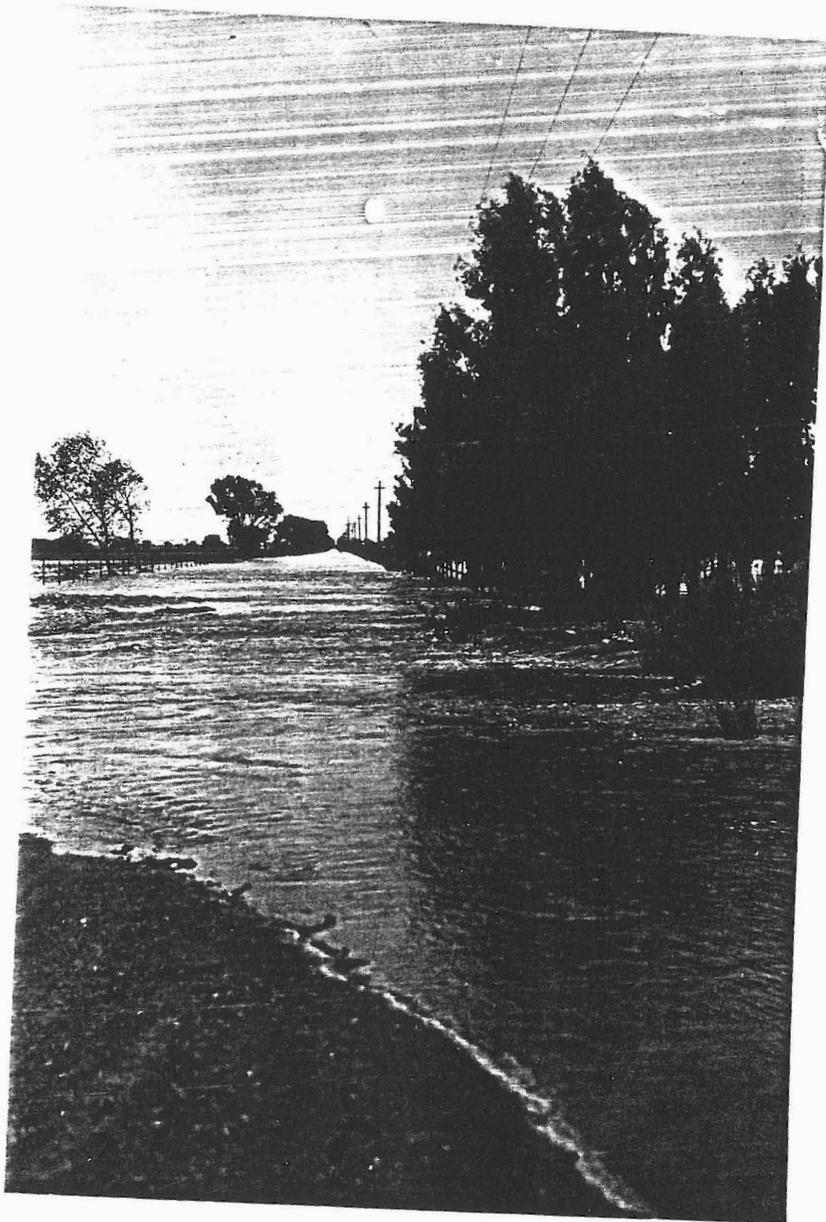
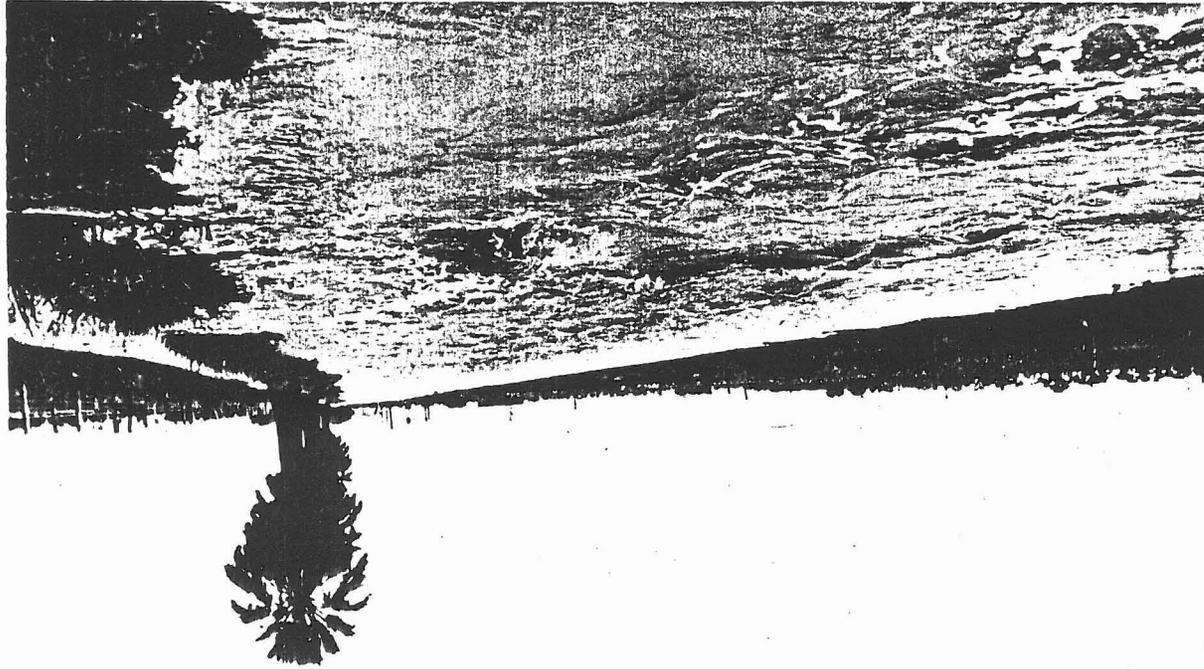


FIGURE 9. CROPLAND AND ROAD DAMAGE BY FLOOD OF SEP-
TEMBER 1946 NORTH OF RAILROAD BETWEEN SECTIONS 35-36,
TOWNSHIP 1 SOUTH, RANGE 6 EAST.



FIGURE 10. LOOKING EAST ALONG HIGHWAY TOWARD WILLIAMS
FIELD ARMY AIRBASE AT A POINT JUST EAST OF RAILROAD
CROSSING DURING FLOOD OF SEPTEMBER 1946 ($\frac{1}{2}$ MILE EAST
OF HIGLEY). ROAD WAS BLOCKED FOR ABOUT 48 HOURS.

FIGURE 10A FLOODWATERS FLOWING DOWN ROAD AND SPREADING OUT ON FARM TO RIGHT OF ROAD WHERE ROAD INTERCEPTS THE RAILROAD ABOUT 1/2 MILE BELOW. ALL WATERS CAME FROM SUPERSTITION AREA DURING FLOOD OF SEPTEMBER 1946. PICTURE TAKEN LOOKING WEST AT SOUTHEAST CORNER OF SECTION 17, TOWNSHIP 1 SOUTH, RANGE 6 EAST.



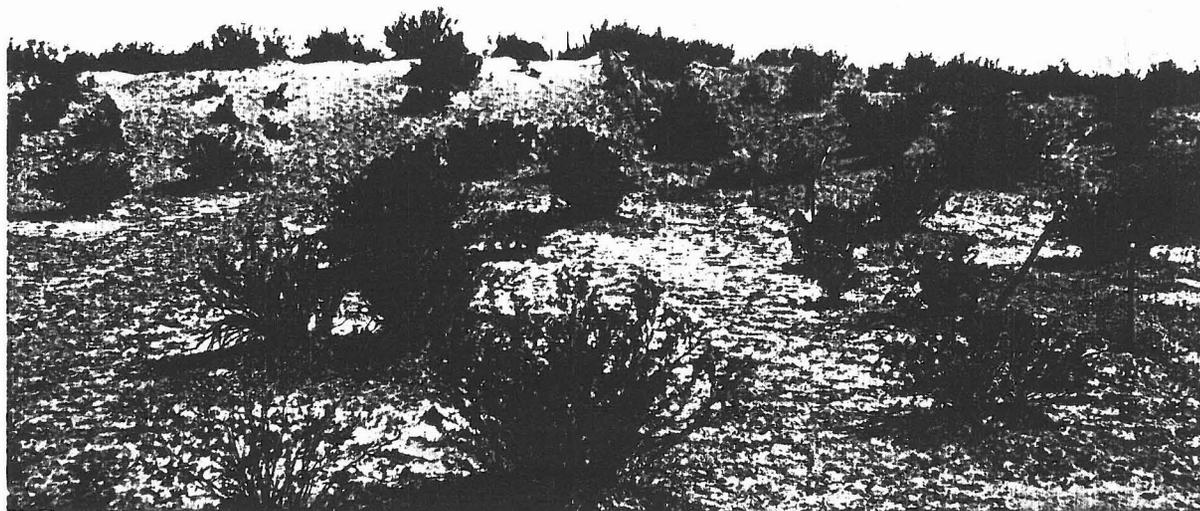


FIGURE 11. AREA NORTH OF QUEEN CREEK CHANNEL, 1946. SECTION 3, TOWNSHIP 2 SOUTH, RANGE 7 EAST. LOWER SUPERSTITION (PLAINS) AREA. ANNUAL VEGETATION TO THE LEFT OF THE FENCE HAS BEEN COMPLETELY UTILIZED, ALLOWING NO LITTER TO FORM ON THE GROUND. RANGE MAINTAINED IN THIS CONDITION IS NOT IN THE INTEREST OF FLOOD CONTROL. PROTECTION OF THE AREA TO THE RIGHT OF THE FENCE FROM GRAZING HAS RESULTED IN AN IMPROVEMENT IN THE VEGETATIVE COVER.



FIGURE 12. EARTHEN DIVERSION DAM (D) WITH WELL-KEYED ROCK SPREADERS (S). UPSTREAM FACE OF ONE OF THE TWO ATTACHED SPREADERS IS SHOWN. THE FACE ROCKS OF SPREADERS (UPSTREAM SIDE) ARE SET WELL IN THE GROUND, WITH THEIR TOPS ON GRADE LINE. NOTE THE HEAVY ROCK THIMBLE (T) AT END OF DAM. ARROWS SHOW DIRECTION OF FLOW OF WATER DIVERTED FROM CHANNEL.

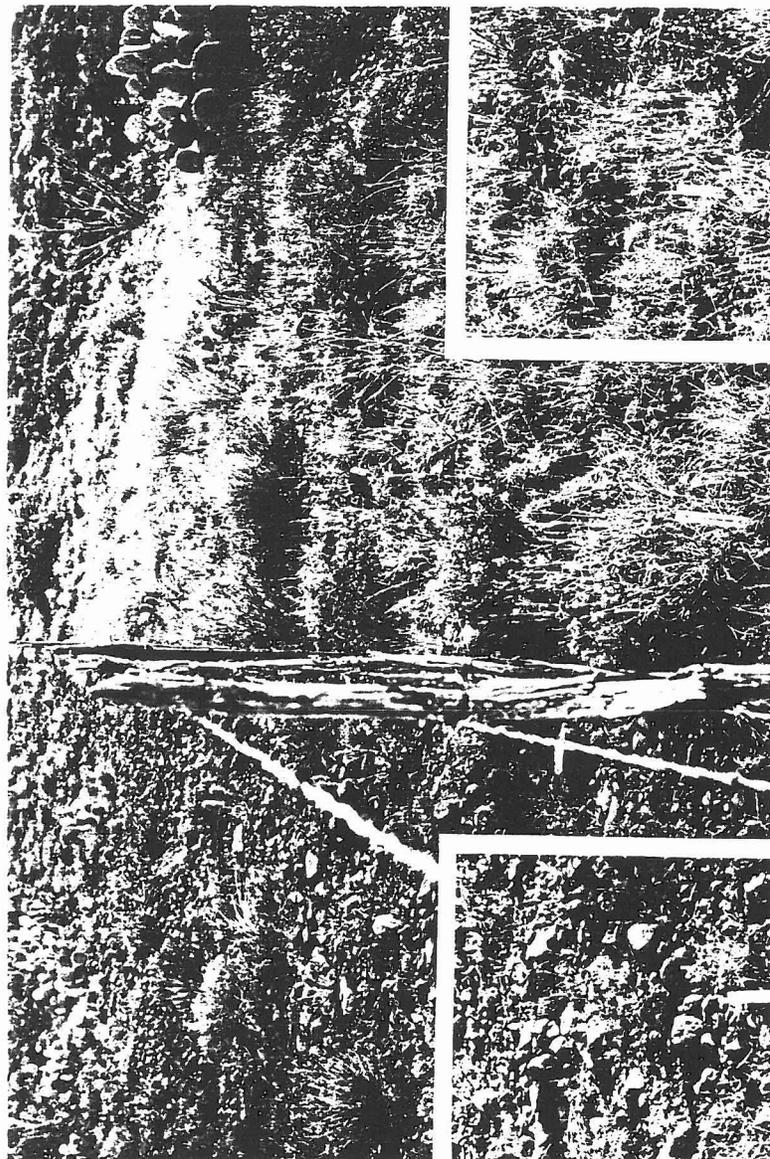


FIGURE 13. LOWER MOUNTAINOUS AREA LOCATED IN SECTION 21, TOWNSHIP 1 SOUTH, RANGE 12 EAST. AREA WITHIN ENCLOSURE FENCE IS WHITFORD CANYON PLOT IN THE CROOK NATIONAL FOREST. NOTE THE IMPROVEMENT IN THE VEGETATIVE COVER WITHIN THE ENCLOSURE AS A RESULT OF PROTECTION FROM GRAZING BY LIVESTOCK FOR FIVE YEARS. PICTURE WAS TAKEN IN NOVEMBER, 1946.



FIGURE 14. AREA INSIDE THE FENCE WAS SEEDED TO GRASS IN 1937 AND HAS BEEN PROTECTED FROM GRAZING. AN EARTH DIKE DIVERTS RUN-OFF ONTO THE AREA. PERENNIAL GRASS IN THE AREA HAS SURVIVED SEVERAL PROLONGED DROUGHTS SINCE IT WAS ESTABLISHED. SECTION 3, TOWNSHIP 1 SOUTH, RANGE 8 EAST. PICTURE TAKEN IN NOVEMBER 1946.

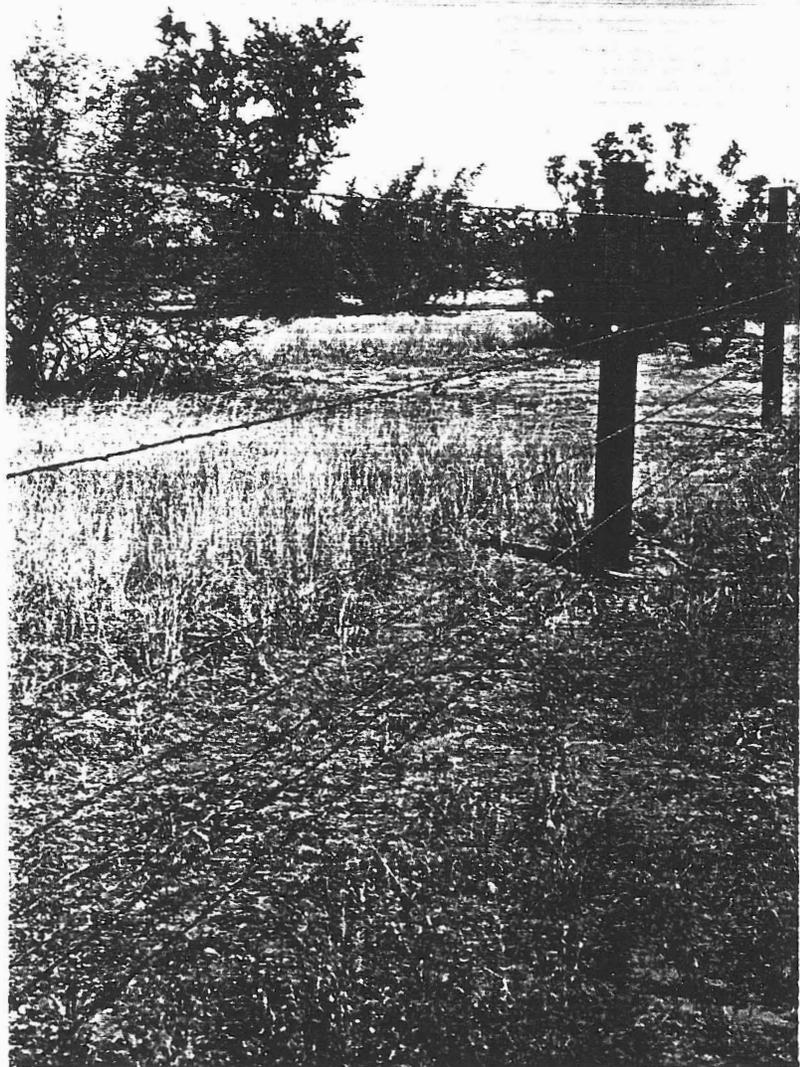


FIGURE 15. AREA WITHIN AIRFIELD BOUNDARY FENCE HAS BEEN PROTECTED FROM GRAZING FOR ABOUT THREE YEARS. GRASS IS LARGELY SIX WEEKS GRAMA. SECTION 15, TOWNSHIP 2 SOUTH, RANGE 8 EAST. PICTURE TAKEN AUGUST 1946.

