

[For full information concerning the filling out and filing of this form refer to Regulation 4 of Rules and Regulations of the Division of Water Resources Governing the Appropriation of Water.]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER RESOURCES

Application No. 9448 Filed Nov. 1, 1938 at M.

AMENDED APPLICATION RECEIVED NOV 2 1938
APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

This application involves in no way the right to construct a dam

I, (See Supplement)

of County of

State of , do hereby make application for a permit to appropriate the

following described unappropriated waters of the State of California, SUBJECT TO EXISTING RIGHTS:

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is Kern River

located in Kern County, tributary to Buena Vista Lake

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use without storage (See Supplement) cubic feet per

second, to be diverted from January 1st to December 31st of each season.

(b) For diversion to be stored temporarily and later applied to beneficial use (See Supplement, paragraph 2-a)

per annum, to be collected between and of each season.

NOTE—Answer (a) or (b) or both (a) and (b) as may be necessary. The necessary amount must be in definite terms of acres established unit of measurement. Neither these amounts nor the season may be increased after application is filed.

3. The use to which the water is to be applied is irrigation

including industrial, municipal, domestic, recreational use may be desired to include all use incidental to a resort such as domestic, heating, air cooling, etc.

NOTE—A separate application must be made for each use except that incidental domestic use may be included with any other use.

4. The point of diversion is to be located (See Supplement)

being within the

of Section , Tp. , R. , M. in the County of Kern

The main conduit terminates in of Sec. , Tp. , R. , M.

Description of Diversion Works

NOTE—An application can not be approved for an amount greater in excess of the estimated capacity of the diversion works

6. Intake or Headworks (fill only those blanks which apply)

(a) Diversion will be made by pumping; Capacity of plant cubic feet per minute

(b) Diversion will be by gravity, the diverting dam being feet in height (stream bed to

level of overflow); feet long on top; and constructed of

(c) The storage dam will be feet in height (stream bed to overflow level)

having on top; have a freeboard of feet, and be constructed of

7. Storage Reservoir (1) Monoche (2) Isabelle

The storage reservoir will flood back as shown on map filed

and will have a surface area of (1) 8,800 (2) 11,000 acres, and a capacity of (1) 800,000 (2) 800,000 acre-feet.

Use in case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

AMENDED APPLICATION FILE

8. Conduit System (describe main conduits only)

(See Supplement)

(a) Canal, ditch, flume: Width on top (at water line) _____ feet; width at bottom _____

feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials

of construction _____

(b) Pipe line: Diameter _____ inches; length _____ feet; grade _____ feet per

1,000 feet; total fall from intake to outlet _____ feet; kind _____

Norm.—If a combination of different sizes or kinds of conduit is to be used, attach cross sections with complete description, also show location of each clearly on map.

9. The estimated capacity of the diversion works proposed is 4000 c.f.s. exclusive of 2000 c.f.s. capacity now serving storage in Buena Vista Lake Reservoir.

The estimated cost of the diversion works proposed is (See 10 below)

Completion Schedule

10. Construction work on the _____ Preliminary surveying on the reservoirs has begun, and the equals _____ will be completed within 5 months after approval of this application.

Construction work will be completed within _____ years after approval of this application.

The water will be completely applied to the proposed use within _____ years after approval of this application.

Description of Proposed Use

11. Place of Use. _____ (See Supplement)

Does applicant own the land whereon use of water will be made? _____ (See Supplement)

12. Domestic Use. _____ Domestic use is proposed as follows: _____

13. Irrigation Use. (See marginal note.) The area to be irrigated is _____ acres.

The segregation of acreage as to crops is as follows: Rice _____ acres; alfalfa 16% _____; orchard and vineyard 5% _____; general crops 79% _____.

14. Power Use. (See marginal note.) The total fall to be utilized is _____ feet.

The maximum amount of water to be used through the penstock is _____ cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is _____ horsepower.

The use to which the power is to be applied is _____

The nature of the works by means of which power is to be developed is _____

The water will be returned to _____ in _____

FIGURES 13, 14, 15, 16, 17 and 18 may be included on this same application.

DO NOT FILE

Application Form No. 1

The estimated average daily consumption during the month of maximum use at the end of each five-year period

full amount applied for is put to beneficial use is as follows:

16. Mining Use. (See marginal note.) The name of the mining property to be served is _____

Name of claim

_____ and the nature of the mines is _____

Gold, silver, lead, quartz, etc.

The method of utilizing the water is _____

It is estimated that the ultimate water requirement for this project will be _____

Cubic feet per second, gallons per minute. State basis of estimate

The water will be polluted by chemicals or otherwise

Explain nature of pollution, if any

and it will not be returned to _____

State source

State stream, subdivision

Sec. _____, T₉ _____, R. _____, M. _____

17. Industrial Use. (See marginal note.) The nature of the use proposed is _____

Describe nature and method of use

The amount for which application is made was determined by _____

Describe basis of estimate of quantity needed

18. Recreational Use. (See marginal note.) Water will be used for _____

Describe nature and method of use

The amount for which application is made was determined by _____

Describe basis of estimate of quantity needed

General

19. Are the maps as required by the Rules and Regulations filed with Application? No If not, state specifically the time required for filing same 6 months

20. Does the applicant own the land at the proposed point of diversion? No If not, state what steps have been taken to secure right of access thereto. vested easements over 40 years old.

21. What is the name of the post office most used by those living near the proposed point of diversion? Bakersfield, California.

22. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion? Other than applicants and the owners of the water rights listed on the Schedule accompanying a letter filed with this Application, there are no other claimants below the points of diversion known to applicants. Names of owners of such water rights (other than applicants) are not known to Applicants.

[SIGNATURE OF APPLICANT] _____ (See Supplement)

LESS THAN ONE
Leave blanks for irrigation
district to some other use

DO NOT WRITE IN THIS SPACE

SUPPLEMENTS TO AMENDED APPLICATION NO. 9446.

Paragraph 1:

<u>Name of Applicants</u>	<u>Post Office Address</u>
Buena Vista Water Storage District, a California Water Storage District,	Buttontwillow, Kern Co. California
Kern County Land Company, a California corporation,	485 California St., San Francisco
Kern County Canal and Water Company, a California corporation,	Box 380, Bakersfield, California
Anderson Canal, Inc.,	" " " "
Buena Vista Canal, Inc.	" " " "
Central Canal Company,	" " " "
East Side Canal Company,	" " " "
James Canal, Inc.,	" " " "
James & Dixon Canal, Inc.,	" " " "
Joyce Canal, Inc.,	" " " "
Kern Island Canal Company,	" " " "
Kern River Canal and Irrigating Company,	" " " "
Lerdo Canal Company,	" " " "
Pioneer Canal, Inc.,	" " " "
Plunket Canal, Inc.,	" " " "
Stine Canal, Inc.,	" " " "
The Farmers Canal Company,	" " " "
all California Corporations.	

Paragraph 2a:

The purpose of this application is to appropriate a maximum of 3800 c.f.s., with an annual maximum of 800,000 acre feet as made available by the operations of Monache and Isabella Reservoirs, as described in paragraphs 6c and 7 of this application, and in accordance with an agreement to be hereafter effected by applicants with the United States War Department or other Authority, and in the event such an agreement is not effected and said reservoirs are constructed and operated, then to appropriate the waters released therefrom when and as such waters are released, to the maximum of 3800 c.f.s.

Paragraph 4: The points of diversion are as follows:

(1) Beardsley Weir is located N. $76^{\circ} 46'$ E., 8160 feet from the N.W. corner of Section 10, T. 29 S. R. 28 E., MDBM, being within N.E. $1/4$ of N.W. $1/4$ of Section 10, T 29 S, R 28 E, M.D.M.

(2) Kern Island Head is located S. $21^{\circ} 48'$ W., 540 feet from the N.E. corner of Section 17, T 29 S, R 28 E, M.D.M. being within N.E. $1/4$ of N.E. $1/4$ of Section 17, T 29 S, R 28 E, M.D.M.

(3) Galloway Weir is located N. $72^{\circ} 58'$ W, 1740 feet from the S.E. corner of Section 13, T 29 S, R 27 E, M.D.M., being within S.W. $1/4$ of S.E. $1/4$ of Section 13, T 29 S, R 27 E, M.D.M.

(4) Pioneer Weir is located S. 53° , $52'$ W, 682 feet from the N.E. corner of Section 1, T 30 S, R 26 E, M.D.M., being within N.E. $1/4$ of N.E. $1/4$ of Section 1, T 30 S, R 26 E, M.D.M.

(5) Diversion Weir (B.V.W.S. Dist.) is located N 45° $30'$ W, 3410 feet from S.E. corner Section 23, T 30 S, R 25 E, being within SE $1/4$ of Section 23, T 30 S, R 25 E, M.D.M.

Paragraph 4 (Cont'd.):

(6) Waste Weir is located N. 52°, 45' E, 4400 feet from S.E. corner of Section 33, T 30 S, R 25 E, being within NW 1/4 of Section 32, T 30 S, R 25 E, M.D.M.

(7) Concrete Weir is located S. 62°, 30' E, 365 feet from the NW corner Section 15, T 30 S, R 24 E, being within NW 1/4 of Section 15, T 30 S, R 24 E, M.D.M.

Paragraph 5:

Canal	Terminates						M.D.M.
	1/4	1/4	Sec.	Tp.	R.		
Beardsley-Lerdo	NE	SW	6	27	26		M.D.B. & M.
Kern Island	SW	NW	17	32	27		"
South Fork	SE	SE	18	29	28		"
Calloway	SW	SW	24	26	25		"
Carrier Canal	NW	NW	6	30	27		"
L Pioneer	SW	NE	6	30	24		"
Alejandro	SE	SE	25	31	25		"
Main Canal	NW	NW	15	30	24		"
Inlet Canal	SE	SE	16	31	25		"
East Side	SW	SE	23	27	22		"
West Side	NE	NW	6	27	22		"

Paragraph 6:

	Height	length	Material
Beardsley Weir	16'	380'	Timber
Kern Island Head	Variable	Variable	Sack and Brush
Calloway Weir	12'	378'	Timber
Pioneer Weir	10'	358'	Timber
Diversion Weir (B.V.M.S. Dist.)	10'	150'	Concrete and Timber
Waste Weir	22'	100'	Concrete and Timber
Concrete Weir	22'	120'	Concrete

Paragraph 8a:

Name of Canal	Width at Water Line	Width at Bottom	Depth of Water	Length	Grade ft. per 1000'	Material
Beardsley-Lerdo	56'	42'	4.5'	138,000'	0.1'	Earth
Kern Island	70'	52'	6.0'	134,000'	0.1'	"
South Fork	35'	25'	3.5'	8,000'	0.1'	"
Calloway	98'	80'	4.5'	165,000'	0.14'	"
Carrier Canal	66'	52'	4.8'	45,000'	0.2'	"
Pioneer	44'	28'	4.0'	62,000'	0.35'	"
Alejandro	56'	40'	4.0'	35,000'	0.3'	"
Main Canal	56'	40'	4.0'	30,000'	0.3'	"
Inlet Canal	162'	150'	4.0'	10,000'	0.45'	"
East Side	38'	20'	6.0'	125,000'	0.25'	"
West Side	38'	20'	6.0'	130,000'	0.25'	"

Paragraph 11:

Place of use - approximately 337,000 acres in -

Township	Range	Sections	M. B. E. & M.
25 S.,	24 E.,		
"	24, 25 and 26 E.,		
"	27 S.,	22, 23, 24, 25 and 26 E.,	
"	28 S.,	22, 23, 24, 25 and 26 E.,	
"	29 S.,	22, 23, 24, 25, 26, 27 and 28 E.,	
"	30 S.,	23, 24, 25, 26, 27, 28 and 29 E.,	
"	31 S.,	25, 26, 27, 28 and 29 E.,	
"	32 S.,	26, 27 and 28 E.,	

Do applicants own the land whereon use of water will be made?

For the most part the lands are not owned by applicants. The Buena Vista Water Storage District owns no land. The Kern County Land Company is the owner of large areas of land on which water will be used, but the balance of the corporations (except Kern County Canal & Water Company) are public utilities, which merely render service to lands within their service areas, or private corporations owned by Kern County Canal & Water Company supplying water to lands owned wholly by Kern County Land Company.

Signatures of Applicants:

BUENA VISTA WATER STORAGE DISTRICT

By J. Long Kinball
President.

(SEAL)

By J. E. Woodley
Secretary.

KERN COUNTY LAND COMPANY

By John T. Ryott
President.

(SEAL)

By A. Green
Secretary.

KERN COUNTY CANAL AND WATER COMPANY

By William Letson
Vice President.

(SEAL)

By A. L. Chen
Secretary.

ANDERSON CANAL, INC.

By Hugh S. Alley
President.

(SEAL)

By H. Hudson
Secretary.

BUENA VISTA CANAL, INC.

By Hugh S. Alley
President.

(SEAL)

By H. Hudson
Secretary.

CENTRAL CANAL COMPANY

By Hugh S. Allen
President.

By E. L. Hudson (SEAL)
Secretary.

EAST SIDE CANAL COMPANY

By Hugh S. Allen
President.

By E. L. Hudson (SEAL)
Secretary.

JAMES CANAL, INC.

By Hugh S. Allen
President.

By E. L. Hudson (SEAL)
Secretary.

JAMES & DIXON CANAL, INC.

By Hugh S. Allen
President.

By E. L. Hudson (SEAL)
Secretary.

JOYCE CANAL, INC.

By Hugh S. Allen
President.

By E. L. Hudson (SEAL)
Secretary.

KERN ISLAND CANAL COMPANY

By Hugh S. Allen
President.

(SEAL)

By E. L. Hudson
Secretary.

KERN RIVER CANAL AND IRRIGATING
COMPANY

By Hugh S. Allen
President.

(SEAL)

By E. L. Hudson
Secretary.

LEWIS CANAL COMPANY

By Hugh S. Allen
President.

(SEAL)

By E. L. Hudson
Secretary.

PIONEER CANAL, INC.

By Hugh S. Allen
President.

(SEAL)

By E. L. Hudson
Secretary.

PLUNKET CANAL, INC.

By Hugh S. Allen
President.

By E. L. Henderson
Secretary.

(SEAL)

STINE CANAL, INC.

By Hugh S. Allen
President.

By E. L. Henderson
Secretary.

(SEAL)

THE FARMERS CANAL COMPANY

By Hugh S. Allen
President.

By E. L. Henderson
Secretary.

(SEAL)

FORM 1

[For full information concerning the filing out and filing of this form refer to Regulation 4 of Rules and Regulations of the Division of Water Resources Governing the Appropriation of Water]

FILE IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

Application No. 9446 Filed November 2, 1938 at San Francisco
(Applicants must use 612 in the above blank)



APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

This application involves in no way the right to construct a dam

Post Office Address

Buena Vista Water Storage District,
a California water storage district,
Kern County Land Company,
a California corporation,
Kern County Canal and Water Company,
a California corporation,
Anderson Canal, Inc.,
Buena Vista Canal, Inc.,
Central Canal Company,
East Side Canal Company,
James Canal, Inc.,
James & Dixon Canal, Inc.,
Joyce Canal, Inc.,
Kern Island Canal Company,
Kern River Canal and Irrigating Company,
Lerdo Canal Company,
Pioneer Canal, Inc.,
Plumket Canal, Inc.,
Stine Canal, Inc.,
The Farmers Canal Company,
all California corporations,

Buttonwillow, Kern County, Calif.
485 California St., San Francisco
Box 380, Bakersfield, California.

" " " "
" " " "
" " " "
" " " "
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" " " "
" " " "
" " " "

Applicants, **HEREBY APPLY** for a permit to appropriate the following described unappropriated waters of the State of California, subject to existing rights. Applicants are the owners of vested rights to take, divert and use water from the natural flow of the Kern River for irrigation and other beneficial uses as indicated opposite their respective names on a list marked Exhibit A annexed hereto. This Application is for the benefit not only of Applicants but of all the owners of the water rights listed on said Exhibit A proportionately to the quantities of their respective rights and in the order of their respective priorities, including the right of Buena Vista Water Storage District to store water in the so-called Buena Vista Lake Reservoir and to release said water for beneficial uses.

County of _____

State of _____ do hereby make application for a permit to appropriate the following described unappropriated waters of the State of California, SUBJECT TO EXISTING RIGHTS:

1. The source of the proposed appropriation is Kern River, located in Kern County, California, a tributary of Buena Vista Lake.

2. The amount of water which Applicants desire to appropriate under this Application is as follows:

(a) Applicants and others for whose benefit this Application is made are now and have been for many years the owners, respectively, of vested water rights to divert from Kern River and to use for irrigation and other beneficial uses the first 7,500 cubic feet per second, in the aggregate, of the flow of said river between January 1 and December 31 of each year, including the right of Applicant Buena Vista Water Storage District to store water in the so-called Buena Vista Lake Reservoir and to release said water so stored for irrigation and other beneficial uses. Applicants do not intend by this subparagraph (a) to reappropriate the said water rights already vested nor by this Application to waive or abandon such rights, or any thereof, or to consent to the storage of any water falling within said rights, or within any of them in the reservoirs hereinafter mentioned, or at all, but this Application is made in part to protect the said vested rights and to secure and maintain for Applicants and the other owners of the said water rights listed on said Exhibit A the right to continue to divert and use all of the water falling within their said respective rights and stored in said reservoirs and afterwards released from the same. 2

(b) In addition to (a) above, Applicants desire to appropriate under this Application for the benefit of Applicants and the other owners of the water rights listed on said Exhibit A, proportionately to the quantities of their respective rights and in the order of their respective priorities, all of the water which may be released from time to time from said reservoirs hereinafter mentioned to be constructed on said Kern River, and from each of them, the amount of said water so to be released being estimated at 800,000 acre feet in the aggregate. The water will be diverted and impounded out of the water falling within the said vested water rights listed on said Exhibit A and referred to in subparagraph (a) above and out of any other flow of the said river, and will be collected between January 1 and December 31, both inclusive, of each year, and will be stored in the reservoirs on Kern River hereinafter mentioned for the dual purpose of flood control and beneficial uses for irrigation. 3

TO KERN COUNTY CONTRACTOR'S COMPANIES OF BEARSLEY WEIR
 IN THE COUNTY OF KERN, STATE OF CALIFORNIA

3. Use to which the water is to be applied is for irrigation and conservation purposes.

4. The points of diversion of the water released from said reservoirs into said river will be located at the heads of the several canal systems now in existence and shown on the map of Kern Delta attached hereto, all in the County of Kern, State of California.

5. The main conduits terminate in the sections, townships and ranges shown on the map last above mentioned.

Description of Diversion Works

6. Intake or head works.

(b) Diversions will be by gravity. The diversions into the storage reservoirs will require no separate works, the said reservoirs being located on the river itself. The diversions from the river into canals of the stored water from time to time released from the reservoirs into the river will be by means of the diverting dams on the river now in existence shown on the accompanying map and known as the Beardsley Weir, the Kern Island Head, the Calloway Weir, the Pioneer Weir, the Diversion Weir of the Buena Vista Water Storage District, the Waste Weir and the Concrete Weir. The locations of these diversion dams, their heights, lengths and materials of construction are as follows:

Diverting Dams (Existing)

	Location (on Kern River)	Height (ft. above stream-bed)	Length (along top)	Material
Beardsley Weir	NW $\frac{1}{4}$ Sec. 10 Tp. 29S, R. 28 E	16'	380'	Timber
Kern Island Head	SW $\frac{1}{4}$ Sec. 9 Tp. 29S, R. 28E	Variable	Variable	Sack of Brush and sand wing- dam
Calloway Weir	SE $\frac{1}{4}$ Sec. 13 Tp. 29S, R. 27E	12'	378'	Timber
Pioneer Weir	NE $\frac{1}{4}$ Sec. 1 Tp. 30S, R. 26E	10'	338'	Timber
Diversion Weir (B.V.W.S. Dist)	SE $\frac{1}{4}$ Sec. 23 Tp. 30S, R. 25 E	10'	150'	Concrete & Timber
Waste Weir	NW $\frac{1}{4}$ Sec. 32 Tp. 30S, R. 25E	22'	100'	Concrete & Timber
Concrete Weir	NW $\frac{1}{4}$ Sec. 15 Tp. 30S, R. 24E	22'	120'	Concrete

IN NEW CONSTRUCTION OF THE PROJECT OF BEING AT THE TIME
THE NUMBER OF THE DAMS AND RESERVOIRS TO BE CONSTRUCTED

(c) The storage dams will be two in number, one on the South Fork of Kern River located in the NW $\frac{1}{4}$ of Section 20, Tp. 20 S., R. 26 E., to be known as the "Monache Dam", which will be about 130 feet in height and about 700 ft. long on top; have a free-board of 13 feet; and be constructed of rock-fill. The second storage dam to be known as "Isabella Main Dam" located on the NE $\frac{1}{4}$ of Sec. 36, Tp. 26 S., R. 32 E., will be approximately 200 feet in height and about 800 feet long on top; of overflow type, and will be constructed of concrete. An auxiliary Isabella Dam of earth-fill construction will be located in the NE $\frac{1}{4}$ of Sec. 30, and the NW $\frac{1}{4}$ of Sec. 29, Tp. 26 S., R. 33 E. This auxiliary dam will be approximately 70 feet in maximum height; about 1800 feet long on top; and have a free-board of 10 feet.

7. Storage Reservoirs. Storage reservoirs will be two in number:

Monache Meadows Reservoir. This storage reservoir will flood the lands shown on the "contour map of Monache Reservoir" attached hereto, lying below contour elevation 8010. It will have a surface area of approximately 5500 acres, and a capacity of about 300,000 acre feet.

Isabella Reservoir. This storage reservoir will flood lands as shown on the map attached hereto entitled "Topography of Isabella Reservoir Site". It will have a surface area of approximately 11,000 acres below contour 2600 shown thereon, and a capacity of about 500,000 acre feet.

(c) The storage

8. Conduit Systems.

(a) Below is a tabulation of the main conduits of the existing canal systems of the Applicants. On completion of storage and flood control works, some enlargement or other changes in these conduits may be desirable to an extent at present not determinable. The locations of these main conduits are indicated on the map attached and referred to in paragraphs 4, 5 and 11 hereof.

Tabulation of Main Conduits (Existing)

Name of canal	Width at Water-line (ft.)	Bottom Width (ft.)	Depth of Water (ft.)	Length (approx.) (ft.)	Grade: Ft. per 1000 ft.	Material of Construction
Beardsley-Lerdo	56	42	4.5	134,000	0.14	Earth
Kern Island	70	52	6.0	124,000	0.14	"
South Fork	35	25	3.5	8,000	0.14	"
Calloway	98	80	4.5	165,000	0.14	"
Carrier Canal	66	52	4.5	45,000	0.24	"
Pioneer	44	28	4.	62,000	0.35	"
Alejandro	56	40	4.	35,000	0.34	"
Main Canal	56	40	4.	30,000	0.34	"
Inlet Canal	162	150	4.	10,000	0.454	"
East Side	38	20	6.	125,000	0.254	"
West Side	38	20	6.	130,000	0.254	"

Note: Above are approximate dimensions of existing main canals near their intakes. Inlet canal diverts to existing storage in Buena Vista Reservoir.

...and company, ... service areas and/or by private canal companies (owned wholly by the Kern County Land Company), or by Kern County Canal and Water Company (owned wholly by Kern County Land Company), or directly by the Kern County Land Company through ditches or canals owned by it; and as to the lands owned by others to which vested rights in the river are attached and not falling within the service areas of the utility canal companies, by direct surface irrigation from the Kern River.

13. Irrigation Uses. The area to be irrigated is substantially that now under service through existing water rights as above described, within the approximate limits shown on the accompanying map. It varies in the manner above and, including pump-irrigated lands, the area at some time served during recent years has been approximately 350,000 acres. The segregation of the total acreage as to crops has not been fully determined but that part covered by crop surveys in recent years has been about as follows:

Orchards and Vineyards	-	8,940	acres
Field Crops	-	51,950	"
Cotton	-	61,850	"
Alfalfa	-	27,440	"
Pasture and misc. crops	-	21,910	"
Total	--	172,090	"

The irrigation season will begin about January 1st and end about December 31st. The lands to be irrigated now have no water right on account of supply other than the respective water rights listed in said map, except the supplemental ground water supply which has been available. The amount of such supplemental ground water supply varies with the character and extent of seepage losses and irrigation practices. The ground water supply is now overdrawn for most of the area.