

**Appendix G1**  
**Public Water System Information**

## Water Supplier Questionnaire



Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - # Residential Hookups
  - # Commercial Hookups
  - # Industrial Hookups
2. Total quantity of water produced at source.
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities.
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system
14. The total number of businesses served by the water system

15. The approximate number of new customers per year from 1990 onward as well as the total number of customers for those years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
18. Are there any plans to expand the water system? If yes, please describe.
19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name
21. Geographic area served
22. Contact person
23. Address, phone, fax and Email of contact person

**Please send all available data to:  
Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark  
PO Box 445  
Socorro, NM 87801  
FAX: 505-835-2609**

**Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.**

**Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).**

## Water Supplier Questionnaire Responses

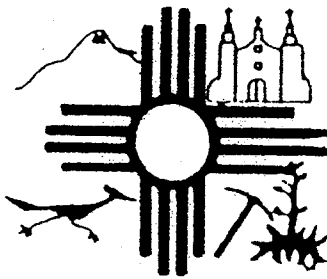
On the following pages are copies of the water suppliers' responses to our questionnaire. In those cases where we did not receive a written response but were able to obtain a telephone response we filled out the survey ourselves. These are labeled Telephone in the top right hand corner. Included in the pocket at the back of this report is a disc with a MS Excel spreadsheet that summarizes all questionnaire responses.

The following water suppliers' questionnaire responses are included in the order they are listed:

City of Socorro  
Magdalena  
La Joya MDWCA  
City of Truth or Consequences  
National Utility Co.  
Lakeshore Sanitation District  
Desert Aire Water  
Hillsboro MDWCA  
Bosque del Apache NWR  
Fort Craig  
Didio's Mini Mart  
NMSHTD  
    (Ft. Craig East and West and Walking Sands Rest Areas)  
USBR  
Caballo Dairy LLC  
State Park Division  
    (Caballo Lake Leased Lots, Caballo Lakeside Campground, Caballo Riverside  
    Campground, Percha Dam)

The following is a list of references for sources of other information submitted instead of a formal questionnaire response:

New Mexico Tech: Trueline Engineering Report, 2000.  
San Antonio MDWCA: 40-yr plan, Suzanne Smith Company, 2000.



# CITY OF SOCORRO

P. 1 of 2

RAVI BHASKER  
MAYOR

GEORGE PATRICK SALOME, JR.  
CITY CLERK

111 SCHOOL OF MINES ROAD  
P.O. DRAWER K  
SOCORRO, NEW MEXICO 87801  
(505) 835-0240

1. Total population served
  - A. Residential Hookups 3040
  - B. Commercial Hookups 400
  - C. Industrial Hookups 48
  
2. Total quantity of water produced at source
  - A. Industrial Park 386,911
  - B. Sedillo Springs 549,924
  - C. Socorro Springs 33,678
  - D. Eagle Picher 209,869
  - E. School of Mines West 67,514
  - F. School of Mines East 59,093
  - G. Olsen 775,690
  
3. Source of water, % quantity from groundwater and surface water  
100 % groundwater
  
4. Total delivered to users as measured by customers' water meters  
1999 Total 487,876,400 gallons
  
5. Portion of total water delivered for these uses:
  - A. Residential 69%
  - B. Commercial 21%
  - C. Industrial 5%
  - D. Recreation 3%
  - E. Agriculture 0%
  - F. Municipal Irrigation 1%
  - G. Temporary Construction 1%
  
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters  
1999 Flow, 278.59 M.G. or 278,590,000 gallons
  
7. Treated wastewater discharge location  
302 Main Street  
Socorro, NM 87801
  
8. Is treated water reused?  
No
  
9. Quantity of water lost through evaporation from wastewater treatment facility  
Not measured, but is minimal as two flow meters in and out of the plant are nearly the same as far as the measured flow
  
10. Any consultant reports or well logs pertaining to water supplied  
Please refer to attached
  
11. Location of source(s)  
Refer to Question # 2

12. Water rights info

Please refer to attached

13. The total number of households served by the water system  
3034

14. The total number of businesses served by the water system  
397

15. The total number of new customers per year from 1990 onward as well as the total number of customers for those years

		New Customers	Total Customers
A.	1990	Data Not Available	
B.	1991	Data Not Available	
C.	1992	Data Not Available	
D.	1993	Data Not Available	
E.	1994	Data Not Available	
F.	1995	Data Not Available	
G.	1996		3220
H.	1997	128	3348
I.	1998	45	3393
J.	1999	75	3468
K.	Thru 4/15/00	19	3487

16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other sources?

100% New Residents

17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?

100% New Businesses

18. Are there any plans to expand the water system?

No, the City of Socorro does not have any plans to expand the water system. It is done as needed to provide for customers.

19. A map and description of their geographic service area  
Please refer to attached

20. Official system name  
City of Socorro Water & Wastewater Division

21. Geographic area served  
City of Socorro

22. Contact person  
Jay Santillanes, Division Director

23. Address, phone, fax and Email of contact person  
PO Drawer K  
Socorro, NM 87801  
(505) 838-1606  
(505) 838-1607 Fax



**HYDROSPHERE**  
Resource Consultants

Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - # Residential Hookups *475 total hookups*
  - # Commercial Hookups
  - # Industrial Hookups *~1100 population*
2. Total quantity of water produced at source. *1999 - 56,143,400 gallons*
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities.
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system
14. The total number of businesses served by the water system
15. The approximate number of new customers per year from 1990 onward as well as

- the total number of customers for those years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe.
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name *Magdalena Water Supply*
21. Geographic area served
22. Contact person *Brad Cass, Rita*
23. Address, phone, fax and Email of contact person

**Please send all available data to:**

**Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark  
PO Box 445  
Socorro, NM 87801  
FAX: 505-835-2609**

**Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.**

**Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).**





**HYDROSPHERE**  
Resource Consultants

**Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000**

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**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - 55 - # Residential Hookups
  - # Commercial Hookups
  - # Industrial Hookups
2. Total quantity of water produced at source.
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - 100% - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities. *no*
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system *50*
14. The total number of businesses served by the water system
15. The approximate number of new customers per year from 1990 onward as well as

La Joya  
p. 2 of 4

- the total number of customers for those years | new cust every 3 years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe. *yes we would like to make a new well*
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name
21. Geographic area served *La Joya NM*
22. Contact person *Lorraine Burela*
23. Address, phone, fax and Email of contact person *PO Box 41 La Joya, NM 87028  
505 864-2279 Fax 505 861-0266  
Lorrbarelj@usm.com*

Please send all available data to:  
 Socorro-Sierra Water Demand  
 Hydrosphere Resource Consultants, Inc.  
 ATTN: Jodi Clark  
 PO Box 445  
 Socorro, NM 87801  
 FAX: 505-835-2609

Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.

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chart 1

La Joya p. 3 of 4

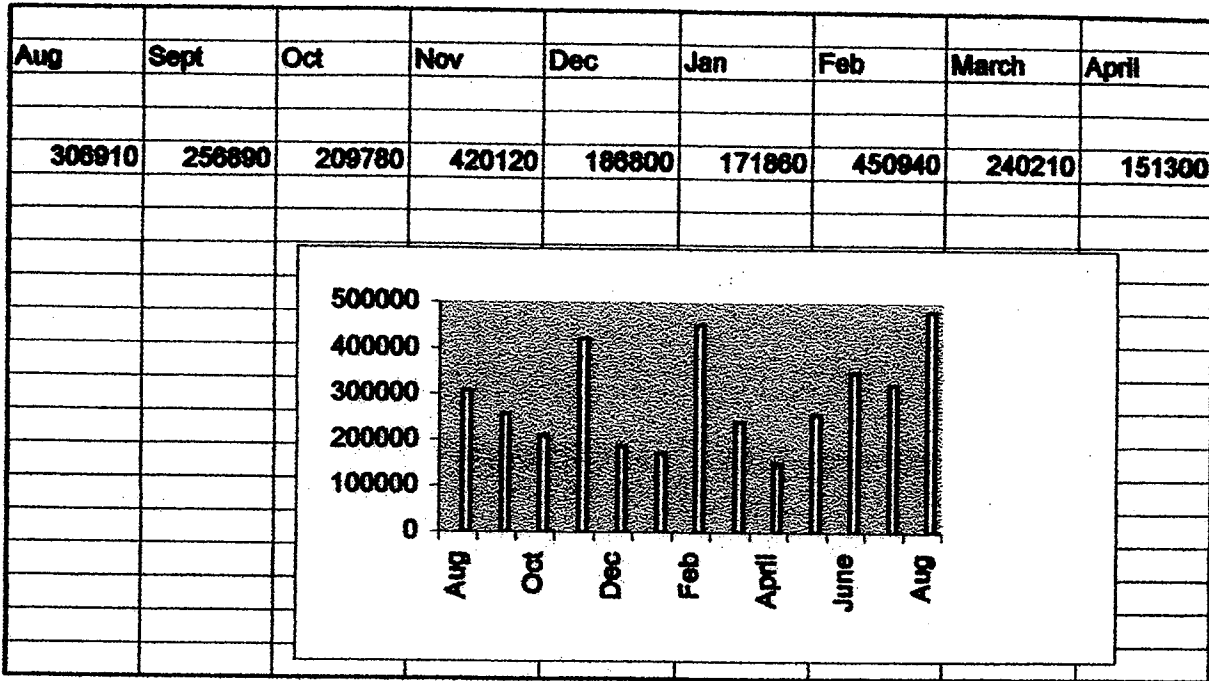


chart 1

La Soya

p. 4 of 4

<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug</b>
<b>257280</b>	<b>349610</b>	<b>322390</b>	<b>479670</b>

1. 7250 Total Population

includes Williamsburg as per J.S. 10/31

A. 2706 Residential Hookups

B. 506 Commercial Hookups

(2) 3,500,000 Total Pumping Capacity / day

(3) 100% Ground Water Produced

445,021,000 gallons / year Metered

JTM  
10/3/2000  
see attachment  
to r.c. xls

(A) 243,776,000 gallons / year residential

(B) 146,852,000 gallons / year Commercial

(C) 115,228,000 gallons / year Irrigation

(D) 9,165,000 gallons / year Fire Plugs

(6) 310,250,000 gallons / year Treated Effluent

discharge outfall of 001 located

@ 1595 animal shelter Road into the Rio Grande.

(8) NOT AT THIS POINT. Provisions have been made to pump an average of 20% of Treated Effluent to Armijo Pond to water Armijo Family Park & eventually pump to the Golf on Marie Street.

(9) N/A

(10) State Engineers Office IN has cruces

12 2570.95 acre feet available.

328

TorC Water Use, QA Arithmetic by JS  
by jtm on 10/3/2000

Residential	243,776	R+C	R+I	R+I+FP
Commercial	146,852	390,628	289,004	298,169
Irrigation	45,228			
Fire Plugs	9,165			
"Total" from JS	298,169			
True Total	445,021			

*Handwritten notes:*  
5-875-2161 confirmed  
by JS 10/3/00  
~~Handwritten signature~~

**FAX #: 505-835-2609  
ATTN: JODI CLARK  
SOCORRO-SIERRA WATER DEMAND  
HYDROSPHERE RESOURCE CONSULTANTS, INC.**

**PG 1 OF 2**

April 19, 2000

National Utility Company  
PO Box 245  
Elephant Butte NM 87935

Travis Saille  
(505) 894-7499 • FAX (505) 894-4512

Serving Elephant Butte in Sierra County

Groundwater is our only source.

In 1999 a total of 904 customers were served. Of these, 857 were residential and 47 were commercial. (36 new customers)

Pumped 53,748,000 gallons		
Delivered:	Residential	37,556,000
	Commercial	12,573,000
	Total	50,129,000

1998: 868 customers, 827 residential and 41 commercial (50 new customers)

Pumped 53,051,000		
Delivered:	Residential	36,856,000
	Commercial	12,434,000
	Total	49,290,000

1997: 818 customers, 777 residential and 41 commercial (31 new customers)

Pumped 51,182,000		
Delivered:	Residential	32,951,000
	Commercial	12,242,000
	Total	45,193,000

1996: 787 customers, 749 residential and 38 commercial (44 new customers)

Pumped 48,907,000

Delivered:	Residential	33,814,000
	Commercial	10,801,000
	Total	44,615,000

1995: 743 customers, 706 residential and 37 commercial (41 new customers)

Pumped 44,805,000

Delivered:	Residential	33,323,000
	Commercial	10,833,000
	Total	44,156,000

We do not have a wastewater facility.

We have three (3) wells in Elephant Butte. One is located in Unit 27, Block 2, Lot 11 and the other wells are located in Unit 5, Block 8, Lot 4.

None of our customers have converted from other water sources.

I hope that this information helps in your water study.

Travis Sailley





**HYDROSPHERE**  
Resource Consultants

Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served *~1100 population*
  - # Residential Hookups
  - # Commercial Hookups *~6 mostly storage lots not heavy usage*
  - # Industrial Hookups
2. Total quantity of water produced at source. *1999 - 35,389,600 gallons*
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities.
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info *- 191.5 af*
13. The total number of households served by the water system
14. The total number of businesses served by the water system
15. The approximate number of new customers per year from 1990 onward as well as

- the total number of customers for those years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe.
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name *Lakeshore Sanitation District*
21. Geographic area served
22. Contact person *Dean Banks*
23. Address, phone, fax and Email of contact person

**Please send all available data to:**  
**Socorro-Sierra Water Demand**  
**Hydrosphere Resource Consultants, Inc.**  
**ATTN: Jodi Clark**  
**PO Box 445**  
**Socorro, NM 87801**  
**FAX: 505-835-2609**

**Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.**

**Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).**

Desert Aire p. 1 of 2  
- Telephone



**HYDROSPHERE**  
Resource Consultants

Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

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**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - # Residential Hookups
  - # Commercial Hookups
  - # Industrial Hookups

*~ 55 population*
2. Total quantity of water produced at source.
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
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9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
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14. The total number of businesses served by the water system
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- the total number of customers for those years
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  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe.
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name *Desert Aire*
21. Geographic area served
22. Contact person
23. Address, phone, fax and Email of contact person

**Please send all available data to:**

**Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark  
PO Box 445  
Socorro, NM 87801  
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April, 2000

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**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - # Residential Hookups - 70
  - # Commercial Hookups - 0
  - # Industrial Hookups - 0
2. Total quantity of water produced at source. - 5,473,600 gal 1999
3. Source of water, % quantity from groundwater and surface water. 100%
4. Total delivered to users as measured by customers' water meters. - 4,523,000 - 1999
5. Portion of total water delivered for these uses:
  - Residential - 100%
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters N/A
7. Treated wastewater discharge location. N/A
8. Is treated wastewater reused? If so, specify uses and quantities. N/A
9. Quantity of water lost through evaporation from wastewater treatment facility. N/A
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system 70
14. The total number of businesses served by the water system 0

190 11 194  
1914 195  
1926 196  
1932 197  
198  
1996

- 15. The approximate number of new customers per year from 1990 onward as well as the total number of customers for those years
- 16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources? *100%*
- 17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources? *N/A*
- 18. Are there any plans to expand the water system? If yes, please describe. *NOT AT THIS TIME*
- 19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

- 20. Official System name - *Hillsboro Mutual DWCA*
- 21. Geographic area served - *Hillsboro*
- 22. Contact person - *MAREE WESTLAND*
- 23. Address, phone, fax and Email of contact person  
*P.O. Box 521 Hillsboro NM, 88042 505-895-5686*

Please send all available data to:

Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark  
PO Box 445  
Socorro, NM 87801  
FAX: 505-835-2609

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Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).

**U.S. FISH & WILDLIFE SERVICE****BOSQUE DEL APACHE NATIONAL WILDLIFE REFUGE****P.O. Box 1246****Socorro, NM 87801****(505) 835-1828****(505) 835-0314 FAX**

July 14, 2000

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Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark/Jim McCord  
P.O. Box 445  
Socorro, NM 87801

Dear Ms. Clark:

First of all, I would like to apologize for being very late with this information. I delegated it and didn't follow-up on it. Some of this information will be taken from records kept and some will be estimated. If you have any questions/concerns, please don't hesitate to contact me.

**Total population served:** 28+ in the summer, dependent upon number of visitors that stop at the refuge; 48+ in the fall/winter, dependent upon number of visitors that stop at the refuge. Our visitation for the year totals about 120,000 people. There are 3 residences, 2 apartments, 1 bunkhouse, 2 mobile homes, and 20 RV hook-ups located at the headquarters site.

**Total quantity of water produced at source:** 1,000,000 gals./yr. (Est.)

**Source of water (% quantity from groundwater and surface water):** 100% from well (groundwater).

**Total delivered to users (as measured by customers' water meters):** 1,000,000 gals/yr. No water measuring meters on individual systems (only one meter at well).

**Portion of total water delivered for these uses:**

**Residential:** 70%

**Municipal irrigation:** 30%

**Total quantity of water returned through a wastewater treatment facility (as measured by plant influent flow meters):** N/A

**Treated wastewater discharge location:** N/A

**Is treated wastewater reused?** N/A

**Quantity of water lost through evaporation from wastewater treatment facility?** N/A

**Any consultant reports or well logs pertaining to water supplied:** No.

**Location of sources:** N/A

**Water rights info:** The refuge has water rights dating back to 1906 for a diversion amount of 12,417 acre-feet from the Socorro, Riverside, San Antonio and Interior (Elmendorf) canals and the Low Flow Channel.

**The total number of households served by the water system:** 6-9 year round and 17 additional in the fall/winter season.

**The total number of businesses served by the water system:** The Bosque del Apache NWR headquarters office and visitor center, which includes a gift shop/bookstore.

**The approximate number of new customers per year from 1990 onward, as well as the total number of customers for those years:** About 60,000 from a total of 120,000.

**Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?** None.

**Are there any plans to expand the water system?** No. If yes, please describe.

**A map (electronic or hard copy) and description of their geographic service area:** Hard copy on file at the refuge office.

**Official System Name:** Bosque del Apache National Wildlife Refuge - NM State ID#902-28

**Geographic area served:** Bosque del Apache National Wildlife Refuge headquarters area.

**Contact person:** Michael Browne or Leroy Saavedra

**Address, phone, fax and Email of contact person:** P.O. Box 1246, Socorro, NM 87801  
mike\_browne@fws.gov

Also attached are records for flooding of ponds on the refuge and a list of irrigation wells on the refuge. Thank you for your time and consideration.

Sincerely,



Gary P. Montoya  
Acting Refuge Manager



Ft. Craig Well

Questions

1. Transient non-community water system, serving 2000 visitors per year, a restroom facility, one RV with usually two volunteers, three outside faucets.

2. Approximately 100 gal/day.

3. 100% ground water.

5. Historical site.

10. Well log, 147 feet total depth, 30 gal/day, 6 inch casing

11. Ft. Craig.

12. Permit from state engineer for domestic use under 72-12-1 regulation.

13. One RV and restroom for visitors.

20. Ft. Craig Well

22. Clarence Seagraves or Brenda Wilkinson

BLM

198 Neel Ave, NW

Socorro, NM 87801

505-835-0412

Fax 505-835-0223

[Clarence\\_Seagraves@nm.blm.gov](mailto:Clarence_Seagraves@nm.blm.gov)



**HYDROSPHERE**  
Resource Consultants

*Didio's Mini-Mail  
Bernardo p. 1 of 2*

Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served *Household - 4 people - stove*
  - # Residential Hookups *- 1*
  - # Commercial Hookups *- 1*
  - # Industrial Hookups *- 0*
2. Total quantity of water produced at source. *304,166 gals. per year*
3. Source of water, % quantity from groundwater and surface water. *Well + NO surface*
4. Total delivered to users as measured by customers' water meters. *NO Meter*
5. Portion of total water delivered for these uses:
  - Residential *Combined w/ # 2 above*
  - Commercial *stove uses water for fountain machine, coffee machine,*
  - Industrial *- 0 & restroom. We have 1 (one) faucet outside for customers*
  - Recreation (parks and golf courses) *- 0*
  - Agriculture *- 0*
  - Municipal irrigation *- 0*
  - Temporary construction *- 0*
  - Other (specify - internal, mining, livestock, etc.) *- 0*
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters *- 0*
7. Treated wastewater discharge location. *- 0*
8. Is treated wastewater reused? If so, specify uses and quantities. *- 0*
9. Quantity of water lost through evaporation from wastewater treatment facility. *- 0*
10. Any consultant reports or well logs pertaining to water supplied *- 0*
11. Location of source(s) *- 0*
12. Water rights info *- 0*
13. The total number of households served by the water system *- 1*
14. The total number of businesses served by the water system *- 1*

15. The approximate number of new customers per year from 1990 onward as well as the total number of customers for those years -2
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources? -6
17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources? -0
18. Are there any plans to expand the water system? If yes, please describe. NO
19. A map (electronic or hard copy) and description of their geographic service area -0

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name Didios
21. Geographic area served Bernardo Mini Mart
22. Contact person TOMY SALAS
23. Address, phone, fax and Email of contact person

Please send all available data to:  
Socorro-Sierra Water Demand  
Hydrosphere Resource Consultants, Inc.  
ATTN: Jodi Clark  
PO Box 445  
Socorro, NM 87801  
FAX: 505-835-2609

**Tomy & Nettie Salas**  
16559 B Hwy. 60  
Bosque, NM 87006  
PH # 864-6786

Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.

Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).

# Reply to Hydrosphere

Per your Questionnaire to District One of the New Mexico State Highway and Transportation Department

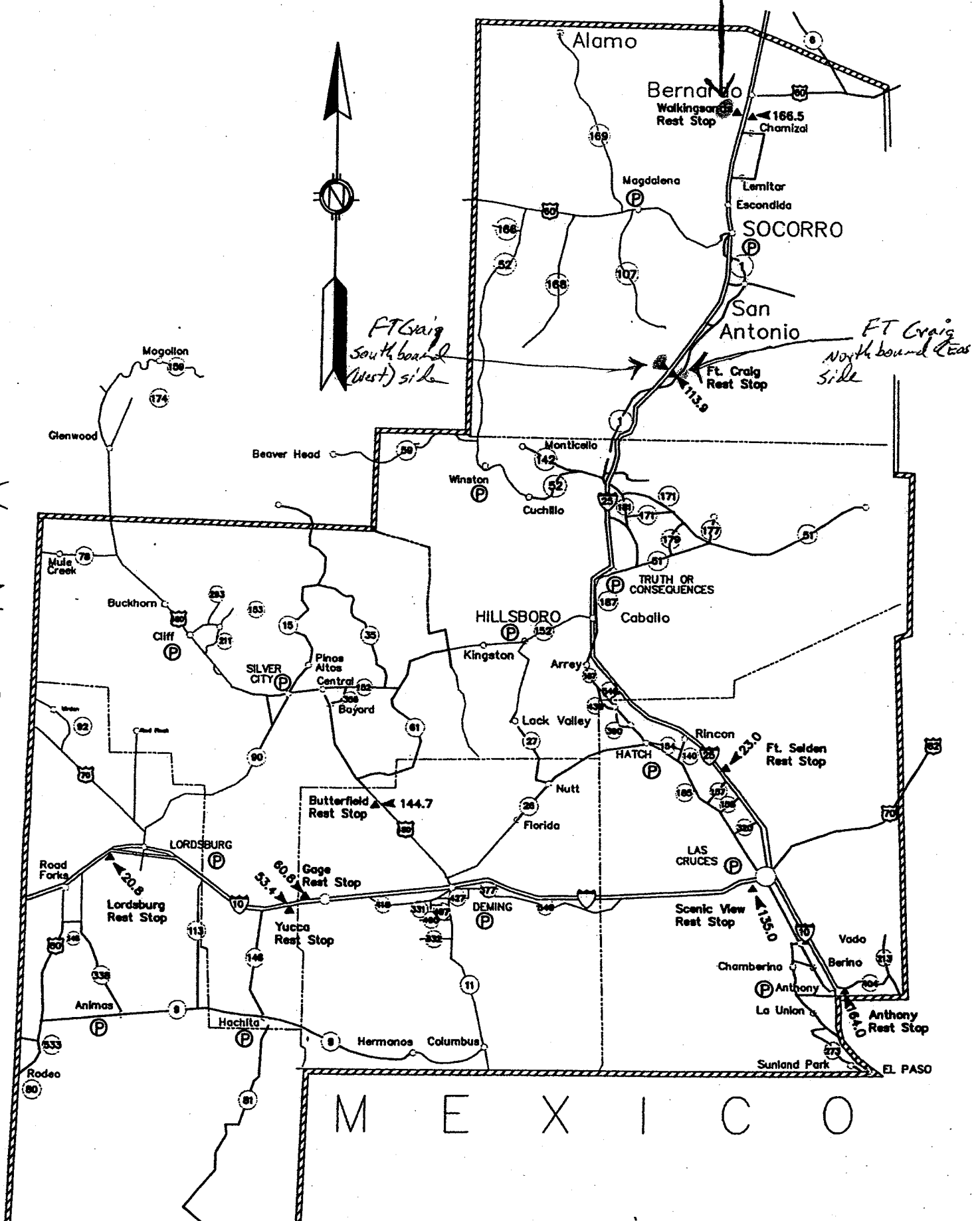
Question	Ft. Craig - East side	Ft. Craig - West side	Walking Sands - Both Sides one well
<b>1. Total Population Served</b>			
# Residential Hookups	None	None	None
# Commercial Hookups	None	None	None
# Industrial Hookups	None	None	None
<b>2. Total Quantity of water produced at source - 1999</b>			
	568,390 Gal.	312,690 Gal	529,300 Gal.
<b>3. Source of water, % quantity from:</b>			
Groundwater	100%	100%	100%
Surface water	0%	0%	0%
<b>4. Total delivered to users as measured by customers water meters</b>			
	None	None	None
<b>5. Portion of total water delivered for these uses:</b>			
Residential	None	None	None
Commercial	None	None	None
Industrial	None	None	None
Recreation (parks and golf Courses)	None	None	None
Agriculture	None	None	None
Municipal	None	None	None
Temporary Construction	None	None	None
Other - Rest Area Rest Rooms	100%	100%	100%
<b>6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters</b>			
	None	None	None
<b>7. Treated wastewater discharge location</b>			
	on site Leach Field	on site Leach Field	on site Leach Field
<b>8. Is treated wastewater reused? If so specify use, etc.</b>			
	No	No	No
<b>9. Quantity of water lost through evaporation from wastewater treatment facility</b>			
	Buried system	Buried system	Buried system
<b>10. Any Consultants reports or well logs pertaining to water supplied</b>			
	None	None	None
<b>11. Location of source(s)</b>			
	Onsite Well	Onsite Well	Onsite Well
<b>12. Water Rights info -</b>			
	3 acre feet a year	3 acre feet a year	3 acre feet a year
We were not able to verify these figures.			
<b>13. The total number of households served by the water system.</b>			
	None	None	None
<b>14. The total number of businesses served by the water system</b>			
	None	None	None



EXHIBIT "C"

Walking Sands Well on Southbound  
(West) Side Serves Both Sides

ARIZONA



MEXICO



## HYDROSPHERE

Resource Consultants

### Socorro-Sierra Regional Water Plan

### Water Demand Study

April, 2000

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served *Do Not Know*
  - # Residential Hookups *OCH Complex*
  - # Commercial Hookups *State Park - Very Small Portion*
  - # Industrial Hookups *0%* *At Damsite.*
2. Total quantity of water produced at source. *100%*
3. Source of water, % quantity from groundwater and surface water. *Wells (2)*
4. Total delivered to users as measured by customers' water meters. *No Water Meters*
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial *0%*
  - Recreation (parks and golf courses)
  - Agriculture *0%*
  - Municipal irrigation *0%*
  - Temporary construction *0%*
  - Other (specify - internal, mining, livestock, etc.) *0%*
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters *State Park has Wastewater Plant - %?*
7. Treated wastewater discharge location. *Elephant Lake*
8. Is treated wastewater reused? If so, specify uses and quantities. *?*
9. Quantity of water lost through evaporation from wastewater treatment facility. *?*
10. Any consultant reports or well logs pertaining to water supplied *Hours Pumps Run*
11. Location of source(s) - *Wells (2) Below Elephant Lake Dam*
12. Water rights info *Pre 1916*
13. The total number of households served by the water system *Do not Know - Very Few @ State Park*
14. The total number of businesses served by the water system *Do not Know - Probably 1 @ State Park*

15. The approximate number of new customers per year from 1990 onward as well as the total number of customers for those years -0-
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources? -0-
17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources? -0-
18. Are there any plans to expand the water system? If yes, please describe. *No*
19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name *908-27*
21. Geographic area served *Dam Site & Just Below Dam*
22. Contact person *C. Weisner*
23. Address, phone, fax and Email of contact person *Box 312 HC32  
Truth or Consequences, NM  
87901  
505-894-6661*

Please send all available data to:  
**Socorro-Sierra Water Demand  
 Hydrosphere Resource Consultants, Inc.  
 ATTN: Jodi Clark  
 PO Box 445  
 Socorro, NM 87801  
 FAX: 505-835-2609**

**Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.**

**Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2556).**





**HYDROSPHERE**  
Resource Consultants

**Socorro-Sierra Regional Water Plan  
Water Demand Study  
February, 2000**

Each of the water systems that supply large and small communities throughout the region deliver a portion of the water that contributes to total demand. So we are asking that you take some time to consider the data that you have about the quantities of water that are supplied by your system and send this data to us.

**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served *100*
  - # Residential Hookups *19*
  - # Commercial Hookups
  - # Industrial Hookups *3 (2 BARNs + OFFICE)*
2. Total quantity of water produced at source. *\* 50,504,200*
3. Source of water, % quantity from groundwater and surface water. *100% GROUNDWATER*
4. Total delivered to users as measured by customers' water meters. *NO RESIDENTIAL METERS*
5. Portion of total water delivered for these uses:
  - Residential *3,000,000*
  - Commercial
  - Industrial *47,504,200*
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters *NONE*
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities.
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system *19*
14. The total number of businesses served by the water system *3*
15. The approximate number of new customers per year from 1990 onward as well as

Socorro-Sierra Regional Water Plan, Demand Study Questionnaire, 10:51 AM, 07/18/00

\* METER INSTALLED 1/17/00

TOTAL WATER PRODUCED 1/17/00 THRU 10/3/00.

- the total number of customers for those years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe. *NO*
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name *CABALLO DAIRY*
21. Geographic area served
22. Contact person *STEVE LARA*
23. Address, phone, fax and Email of contact person *P.O. BOX 340  
ARROYO, NM 87930  
505-267-3061*

Please send all available data to:  
 Socorro-Sierra Water Demand  
 Hydrosphere Resource Consultants, Inc.  
 ATTN: Jodi Clark  
 PO Box 445  
 Socorro, NM 87801  
 FAX: 505-835-2609

Note: If possible, electronic format (such as Excel or Lotus 123) is preferred.

Thank you for your assistance with this essential research. If you have questions or need additional information, please contact either Jodi Clark or Jim McCord at Hydrosphere offices in Socorro (505-835-2609).

Post-it™ Fax Note	7671	Date	10/7	# of pages	2
To	<i>Jodi Clark</i>		From	<i>Steve</i>	
Co./Dept.			Co.	<i>Caballo Dairy</i>	
Phone #			Phone #		
Fax #			Fax #		

(LL) Caballo Lake State Park - Leased Lots p. 106

(LS) Caballo Lakeside Campground

(RS) Caballo Riverside Campground

(PD) Percha Dam State Park



**HYDROSPHERE**  
Resource Consultants

- Telephone

Socorro-Sierra Regional Water Plan  
Water Demand Study  
April, 2000

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**Please return this to us within one week of receipt.**

Here is what we need:

1. Total population served
  - # Residential Hookups
  - # Commercial Hookups
  - # Industrial Hookups
2. Total quantity of water produced at source.
3. Source of water, % quantity from groundwater and surface water.
4. Total delivered to users as measured by customers' water meters.
5. Portion of total water delivered for these uses:
  - Residential
  - Commercial
  - Industrial
  - Recreation (parks and golf courses)
  - Agriculture
  - Municipal irrigation
  - Temporary construction
  - Other (specify - internal, mining, livestock, etc.)
6. Total quantity of water returned through a wastewater treatment facility as measured by plant influent flow meters
7. Treated wastewater discharge location.
8. Is treated wastewater reused? If so, specify uses and quantities.
9. Quantity of water lost through evaporation from wastewater treatment facility.
10. Any consultant reports or well logs pertaining to water supplied
11. Location of source(s)
12. Water rights info
13. The total number of households served by the water system
14. The total number of businesses served by the water system
15. The approximate number of new customers per year from 1990 onward as well as

1999

LL - 2,927,406 gallons  
LS - 2,014,156 gallons  
RS - 3,194,350 gallons  
PD - 501,987 gallons

- the total number of customers for those years
16. Of all new residential customers each year (from 1990 to now), what percentage were new residents and what percentage were existing residents who converted from other water sources?
  17. Of all new business customers (from 1990 to now), what percentage were new businesses and what percentage were existing businesses who converted from other sources?
  18. Are there any plans to expand the water system? If yes, please describe.
  19. A map (electronic or hard copy) and description of their geographic service area

Please provide this data for the most current year for which complete data is available and for previous years. If you have a demand forecast, please add this as well.

Please also provide the following basic information:

20. Official System name
21. Geographic area served
22. Contact person *Phillip McClelland*
23. Address, phone, fax and Email of contact person

**Please send all available data to:**  
**Socorro-Sierra Water Demand**  
**Hydrosphere Resource Consultants, Inc.**  
**ATTN: Jodi Clark**  
**PO Box 445**  
**Socorro, NM 87801**  
**FAX: 505-835-2609**

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