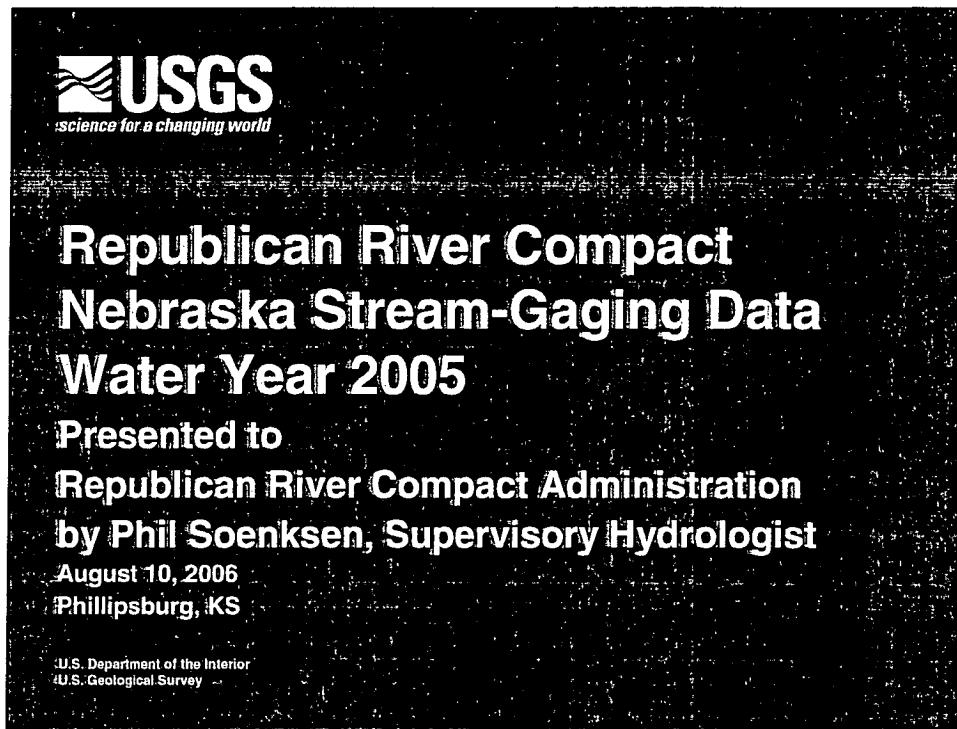


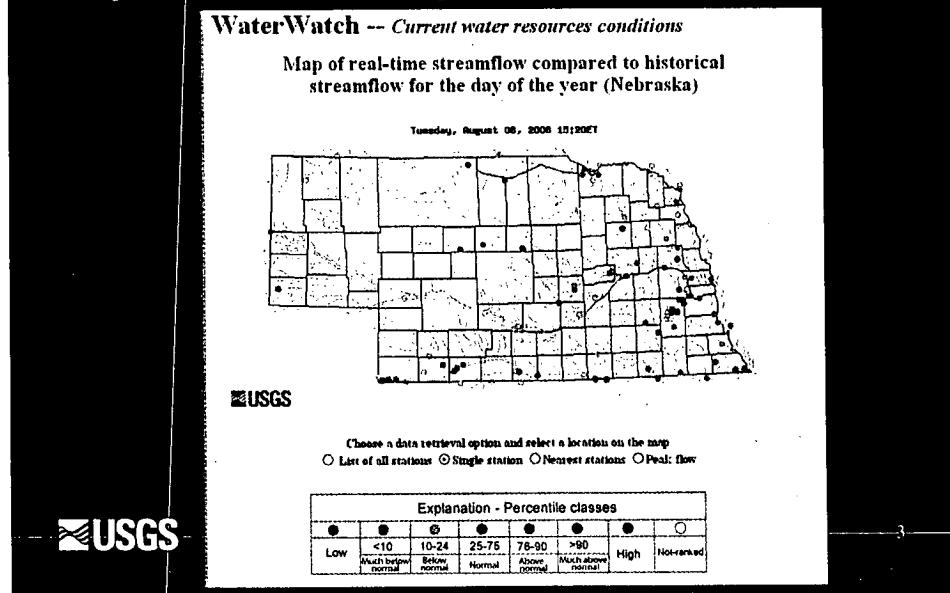
8/10/06



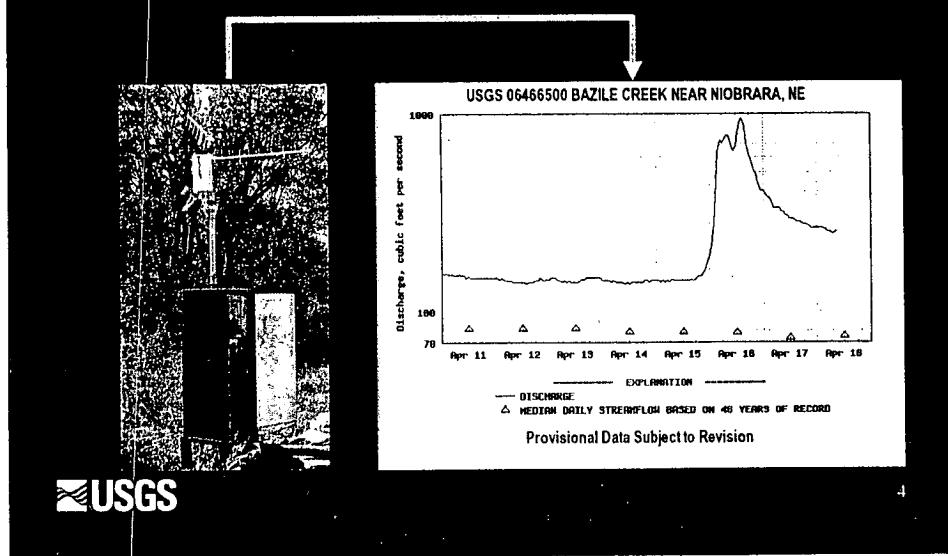
The screenshot shows the homepage of the USGS Water Resources website. The main heading is "Water-resources data on the Web" with the URL "http://water.usgs.gov". The page includes a navigation bar with links to Home, Data, Maps, Software, Publications, Glossaries, and a search bar. A sidebar on the left contains links for NWISWeb Water Data, WaterWatch - Current Streamflow Condition, and About WRD. The central content area features a large image of a river, a section about water being essential for life, and a "Water Information By State" section with a dropdown menu. At the bottom, there are sections for "Of Current Interest..." and "Water Resources Programs".

## Real-time stream gages in Nebraska

<http://waterdata.usgs.gov/ne/nwis/rt>



Stage data move from the field to the Web  
and are converted to discharge data  
every 1-4 hours – faster during floods

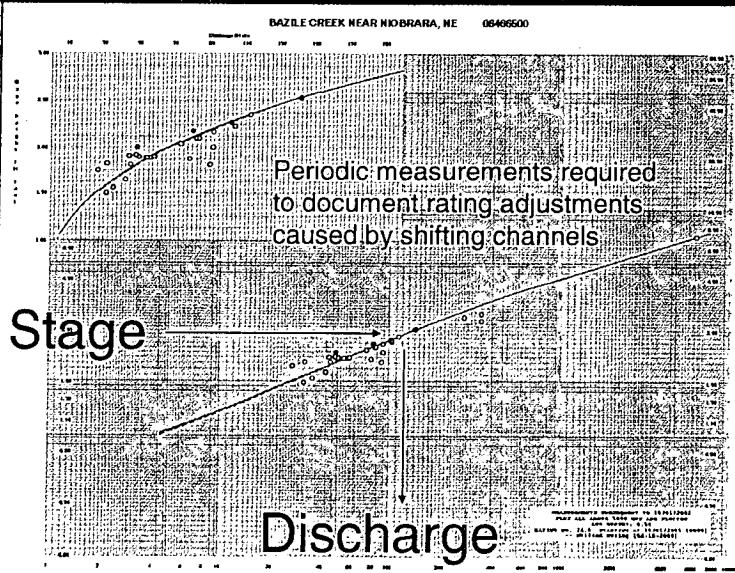


## Periodic discharge measurements



 USGS

... are used to develop the ratings to  
make the conversions



6

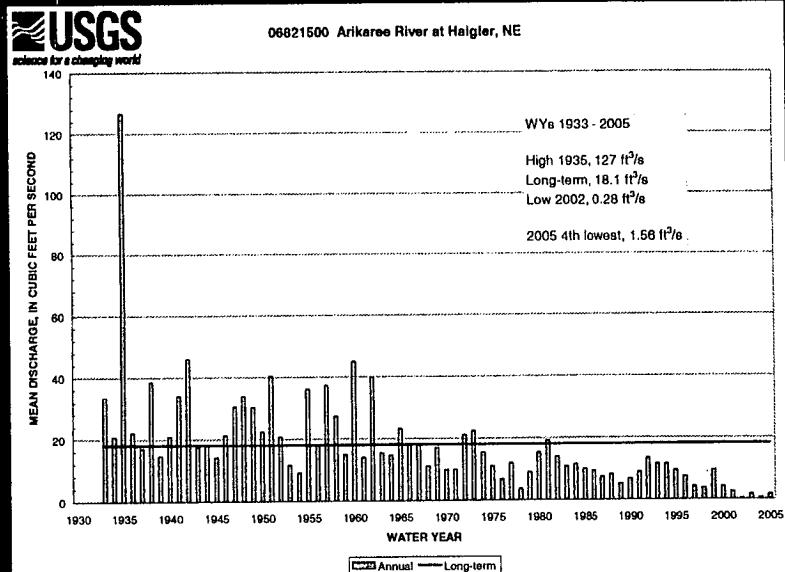
## Summary Charts

- Published data for water year 2005
- Stations funded by the National Streamflow Information Program (Compact stations)
- Operated by the USGS Nebraska Water Science Center



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## Annual mean discharges



## Annual mean discharges



06823000 N Fk Republican River at CO-NE State Line

science for a changing world

WYs 1936 - 2005

High 1951, 65.3 ft<sup>3</sup>/s

Long-term, 43.0 ft<sup>3</sup>/s

Low 2002, 22.5 ft<sup>3</sup>/s

2005 7th lowest, 29.5 ft<sup>3</sup>/s

MEAN DISCHARGE, IN CUBIC FEET PER SECOND

70

60

50

40

30

20

10

0

1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005

WATER YEAR

Annual Long-term

## Annual mean discharges



06823500 Buffalo Creek near Haigler, NE

science for a changing world

WYs 1941 - 2005

High 1951, 10.9 ft<sup>3</sup>/s

Long-term, 6.45 ft<sup>3</sup>/s

Low 1998, 2.51 ft<sup>3</sup>/s

2005 5th lowest, 3.14 ft<sup>3</sup>/s

MEAN DISCHARGE, IN CUBIC FEET PER SECOND

12

10

8

6

4

2

0

1930 1935 1940 1945 1950 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005

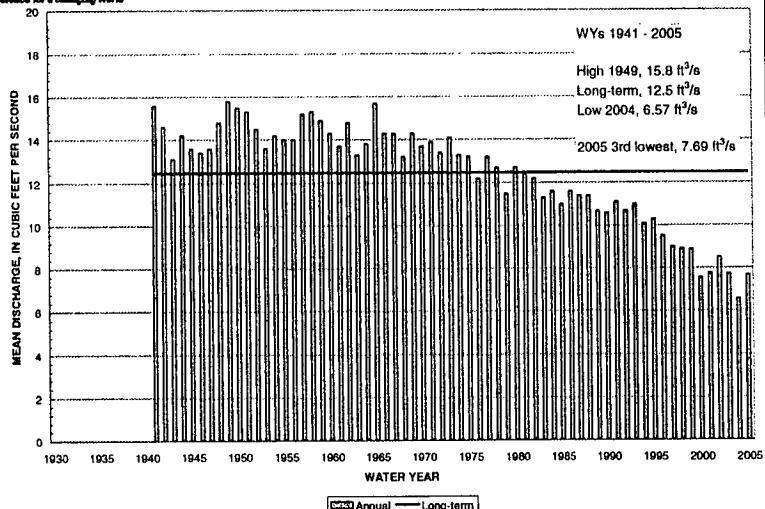
WATER YEAR

Annual Long-term

## Annual mean discharges



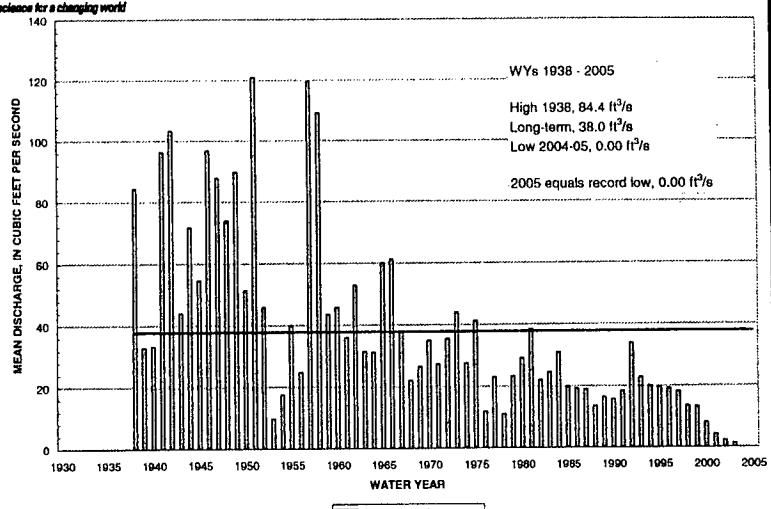
06824000 Rock Creek at Parks, NE



## Annual mean discharges



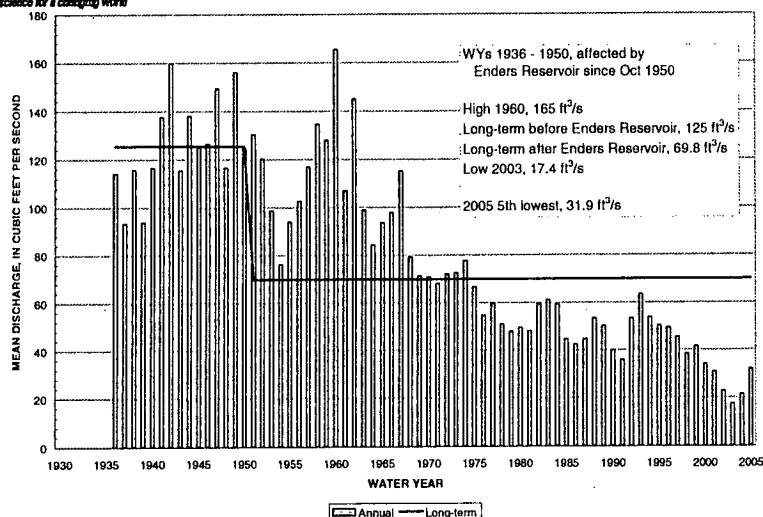
06827500 S Fk Republican River near Benkelman, NE



## Annual mean discharges



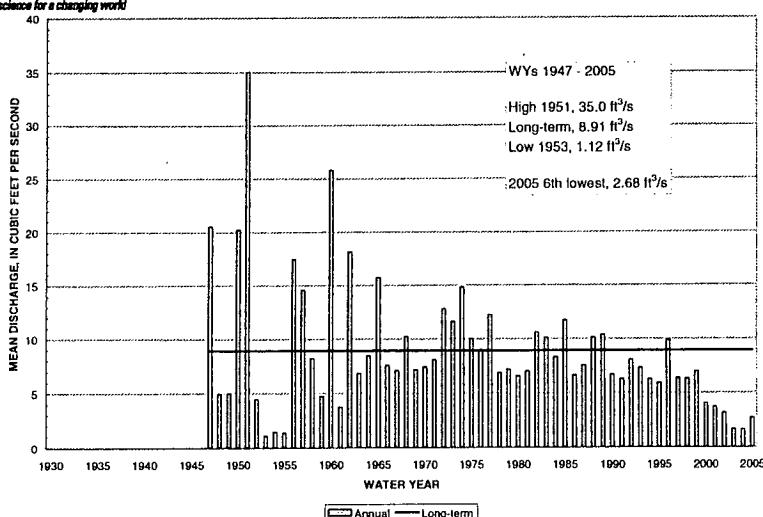
06835500 Frenchman Creek at Culbertson, NE



## Annual mean discharges



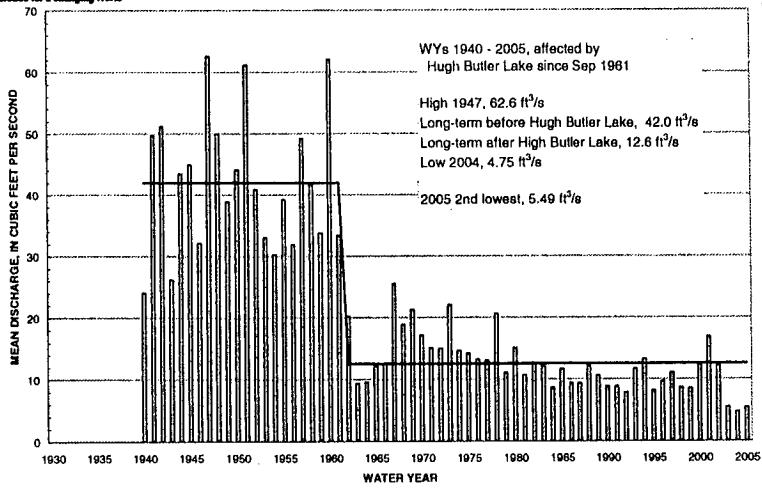
06836500 Driftwood Creek near McCook, NE



## Annual mean discharges



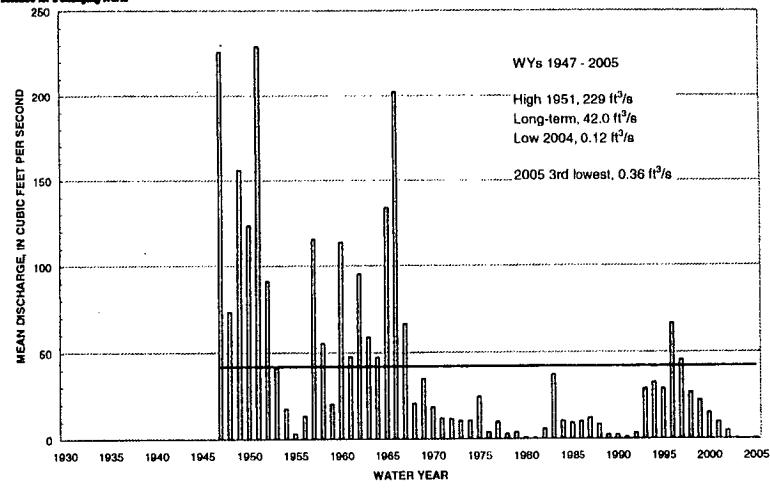
06838000 Red Willow Creek at Red Willow, NE



## Annual mean discharges



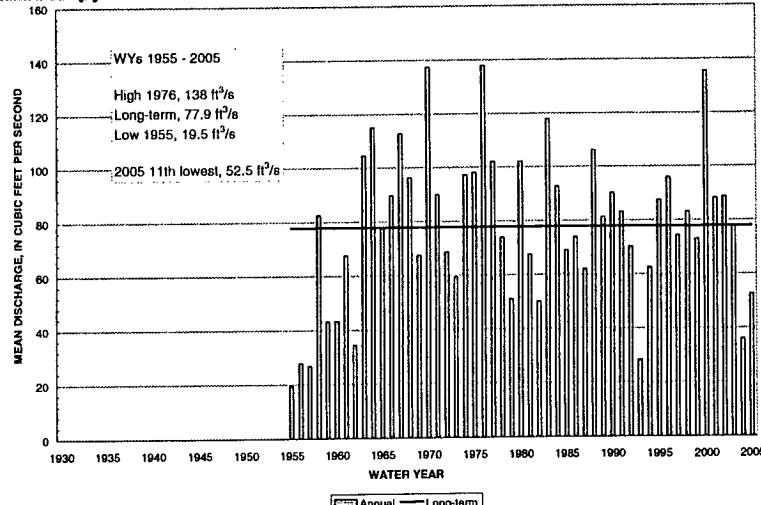
06847500 Sappa Creek near Stamford, NE



## Annual mean discharges



06852500 Courtland Canal at NE-KS State Line, NE



## CONTACT INFORMATION

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**Republican River Basin streamflow-gaging stations with records published by USGS for water year (WY) 2005**

Station ID	Station Name	Telemetry	Annual mean (ft <sup>3</sup> /s) WY 2005	Long- term mean	2005 mean as a percentage of long-term mean	Ranking of 2005	WYs used for long-term mean	Remarks
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**USGS Compact stations supported by the National Streamflow Information Program (NSIP)**

06821500	Arikaree River at Haigler, Nebr	Satellite	1.56	18.1	8.6%	4th lowest	1933 - 2005
06823000	N Fk Republican River at Colo-Nebr State Line	Satellite	29.5	43.0	68.6%	7th lowest	1936 - 2005
06823500	Buffalo Creek near Haigler, Nebr	Satellite	3.14	6.45	48.7%	5th lowest	1941 - 2005
06824000	Rock Creek at Parks, Nebr	Satellite	7.69	12.5	61.5%	3rd lowest	1941 - 2005
06827500	S Fk Republican River near Benkelman, Nebr	Satellite	0	38	0.0%	Record low	1938 - 2005
06835500	Frenchman Creek at Culbertson, Nebr	Satellite	31.9	69.8	45.7%	5th lowest	1951 - 2005
06836500	Driftwood Creek near McCook, Nebr	Satellite	2.68	8.91	30.1%	6th lowest	1947 - 2005
06838800	Red Willow Creek near Red Willow, Nebr	Satellite	5.49	12.6	43.6%	2nd lowest	1962 - 2005
06847500	Sappa Creek near Stamford, Nebr (USACE funds DCP)	Satellite	0.36	42.0	0.9%	3rd lowest	1947 - 2005
06852500	Courtland Canal at Nebr-Kans State Line (JSBR DCP)	Satellite	52.5	77.9	67.4%	11th lowest	1955 - 2005

**USGS stations supported by USACE**

06837000	Republican River at McCook, Nebr	Satellite	40.8	135	30.2%	4th lowest	1955 - 2005
06844500	Republican River near Orleans, Nebr	Satellite	48.2	239	20.2%	3rd lowest	1948 - 2005
06849500	Republican River below Harlan County Dam	Satellite	2.62	206	1.3%	2nd lowest	1954 - 2005

**Nebr DNR stations with USGS/USACE support for DCP, review, and publishing**

06834000	Frenchman Creek at Palisade, Nebr	Satellite	19.5	65.5	29.8%	2nd lowest	1951 - 2005
06845500	Republican River at Cambridge, Nebr	Satellite	62.7	222	28.2%	3rd lowest	1950 - 2005
06853020	Republican River at Guide Rock, Nebr	Satellite	2.53	275	0.9%	Record low	1951 - 2005

**USGS stations with support from USACE and Nebr DNR**

06826500	Republican River at Stratton, Nebr	Satellite	16.4	103	15.9%	2nd lowest	1951 - 2005
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Indicates less than 2004 WY mean  
No USACE funding for WY 2007

Links to USGS data, publications, studies ...  
National <http://water.usgs.gov/>  
Nebraska <http://ne.water.usgs.gov>



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