

APPENDICES
TO CENTRAL PLATTE RIVER MODEL TECHNICAL DOCUMENTATION

- APPENDIX A** ADATA, CDATA, and HDATA input variables descriptions.
- APPENDIX B** Central Platte River Model OPSTUDY code variables dictionary.
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- APPENDIX D** OPSTUDY Assumptions Regarding Water Operations for Diversions at
the Keystone Diversion Dam and Central District Supply Canal
- APPENDIX E** Sample main input file (Present.inp)

Appendix A

Description of CDATE, ADATE, and HDATE input data

CDATA ITEMS

Item Number	Variable Name	Description (Note: for all flags, 0=NO, 1=YES, except where noted)
1	HISTORIC	Flag to use historic diversion demnd assumption at Keystone and Central
2	LOHISTRIG	Lake McC trigger for suspending historic diversion assumption, KAF
3	CONHYDR	Flag to use discretionary operational hydro releases
4	CALIBRAT	Use Lake McConaughy maximum historic content limits (usually for calibration)
5	Not Used	blank
6	Not Used	blank
7	Not Used	blank
8	Not Used	blank
9		Heading for data group "LAKE MCCONAUGHY"
10	EOMLST	Lake McConaughy starting content, KAF
11	EOMSEPT	Lake McConaughy End-of-Month Content (EOMC) for September, KAF; used to decide upcoming year type
12	DEAD	Lake McConaughy dead storage, KAF
13	ACMULT	Lake McConaughy area-capacity curve multiplier
14	ACEXP	Lake McConaughy area-capacity curve exponent
15	HWLCONS	Howell-Bunger Valve constant
16	HWLSLOP	Howell-Bunger Valve slope
17	HWJPER	Howell-Bunger Valve percentage, July
18	HWAPER	Howell-Bunger Valve percentage, August
19	HWSPER	Howell-Bunger Valve percentage, September
20	FLDFLO	Critical South Platte flow at ? in CFS to reduce Lake McConaughy outflow
21	MACMAX	Central District maximum diversion control content in Lake McC, KAF
22	MACMIN	Central District minimum diversion control content in Lake McC, KAF
23	FALLVH	Lake McC September EOMC Fall very high operational trigger, KAF
24	FALLHI	Lake McC September EOMC Fall high operational trigger, KAF
25	FALLNO	Lake McC September EOMC Fall normal operational trigger, KAF
26	FALLLO	Lake McC September EOMC Fall low operational trigger, KAF
27	SPRINGVH	Lake McC March EOMC + 4-month projected inflow Spring very high operational trigger, KAF
28	SPRINGHI	Lake McC March EOMC + 4-month projected inflow Spring high operational trigger, KAF
29	SPRINGNO	Lake McC March EOMC + 4-month projected inflow Spring normal operational trigger, KAF
30	SPRINGLO	Lake McC March EOMC + 4-month projected inflow Spring low operational trigger, KAF
31	TCPOINT	Line slope of max. Tri-County Diversion line, CFS (use 0.0 if not applicable)
32	Not Used	blank
33	Not Used	blank
34	Not Used	blank
35	Not Used	blank
36		Heading for data group "CENTRAL DISTRICT"
37	NPMAC	Central District diversion bypass, low Lake McConaughy control content, KAF
38	COZOP	Cozad operational bypass, CFS
39	TCEFFLG	Flag to calculate Tri-County diversion efficiency, 1.0=use value of TCEF (next item in list)
40	TCEF	Constant Tri-County canal diversion efficiency factor
41	TCMDV	Central District minimum diversion requirement, CFS (state EA code may re-set this)

42	EREOMC	Elwood Reservoir starting content, KAF
43	Not Used	blank
44	JLEOMC	Johnson Lake starting content, KAF
45	Not Used	blank
46	J2CAP	J2 return capacity, CFS
47	Not Used	blank
48	Not Used	blank
49	Not Used	blank
50	Not Used	blank
51	Not Used	blank
52		Heading for data group "SUTHERLAND/NPPD SYSTEM"
53	KEYMAC	Keystone bypass - low Lake McConaughy control content, KAF
54	SCMAC	Sutherland Canal minimum diversion requirement - low Lake McConaughy control content, KAF
55	KTEFFLG	Flag to calculate Korty Canal diversion efficiency, 1.0=use value of KTEF (next item in list)
56	KTEF	Constant Korty canal diversion efficiency factor
57	KTKYMIN	Minimum combined Keystone-Korty diversion, CFS
58	SREOMC	Sutherland Reservoir starting content, KAF
59	Not Used	blank
60	NPHCAP	North Platte Hydro return capacity, CFS
61	Not Used	blank
62	Not Used	blank
63	Not Used	blank
64	Not Used	blank
65	Not Used	blank
66		Heading for data group "ENVIRONMENTAL ACCOUNT, LAKE MCCONAUGHY"
67	STATEEA	Flag for whether Lake McConaughy environmental account (EA) is active
68	EALARGE	Flag for whether Lake McConaughy EA is enlarged
69	EASTART	EA starting capacity, KAF
70	ACCRUPER	Lewellen inflow to EA accrual, percent
71	Not Used	blank
72	CONSERV	Conservation/water leasing flag
73	IRRIGEDKS	Irrigation retaining factor, percent (Keystone-Sutherland canals conservation/leasing)
74	IRRIGREDSNP	Irrigation retaining factor, percent (Sutherland-North Platte canals conservation/leasing)
75	IRRIGREDTC	Irrigation retaining factor, percent (Central system conservation/leasing)
76	IRRIGREDBC	Irrigation retaining factor, percent (Brady-Cozad canals conservation/leasing)
77	IRRIGREDKR	Irrigation retaining factor, percent (Kearney canal conservation/leasing)
78	EANETCW	Net conserved water to add to EA, KAF
79	IRRIGREDWC	Irrigation retaining factor, percent (Western canal conservation/leasing of natural flow)
80		Heading for data group "BORROW/PAYBACK FROM MAC AND POWER INTERFERENCE"
81	EALOAN	Flag to enable borrow/payback, EA may borrow from Lake McConaughy (See ADATA(48))
82	PWRINTERFER	Flag for power interference project
83	PWRDIVISOR	Power interference divisor (POTENTIAL/DIVISOR is amount credited to EA)
84	Not Used	blank
85	Not Used	blank
86	Not Used	blank
87	Not Used	blank
88		Heading for data group "IS EA WATER PROTECTED OR UNPROTECTED? TAMARACK EXCHANGE"
89	KTPROT	Flag to protect Colorado conservation water past Korty Diversion

90	KTPROTP	Flag to protect Colorado conservation water past Central Diversion
91	PROGH2O	Flag to protect EA releases from diversion into Central System
92	EAETOPCT	Percent of excess-to-ownership (ETO) water to place in the EA
93	COEXCHNG	Flag to exchange Tamarack EA water into Lake McConaughy
94		Heading for data group "EA PULSE FLOWS TARGETED IN MAY"
95	EAPFLG	Flag to select short EA pulse in May
96	MACMAXPULSE	Maximum CFS rate through turbine penstock for EA pulse
97	EAPTARGMAX	EA pulse flow target maximum at Overton, CFS
98	EAPDAYS	Number of days of sustained ("flat") pulse flow, not including rise and fall
99	EAPRISE	Ramp rate for rising limb of EA pulse flow hydrograph, CFS/day (always positive)
100	EAPFALL	Ramp rate for falling limb of EA pulse flow hydrograph, CFS/day (always negative)
101	EAPTARG	Peak daily decision flow level for EA pulse, October thru June, CFS
102	EAPTARGLOW	Amount below EAPTARG level to pulse anyway if EA can
103	EARESERVE	EA storage to reserve between January and April for use in May, KAF
104		Heading for data group "GROUNDWATER/LOWER SYSTEM PROGRAM PROJECTS"
105	GWMPROJ	Flag for whether Groundwater Management project is on
106	GWMKTARG	Groundwater Management project target (volume to store/pump each year), KAF
107	NDRYCKFLG	Flag to operate North Dry Creek groundwater pumping project
108	RIVRDFLAG	Flag to operate riverside drains
109	Not Used	blank
110	Not Used	blank
111	Not Used	blank
112		Heading for data group " "PLUM CREEK" TYPE OF REREGULATING RESERVOIR"
113	PLUMCK	Flag for whether "Plum Creek" Reservoir project is operating
114	PLUMEOMLST	"Plum Creek" Reservoir starting content, KAF
115	PLUMCAP	"Plum Creek" Reservoir capacity, KAF
116	PLUMCFSIN	"Plum Creek" Reservoir inflow, CFS
117	PLUMDEAD	"Plum Creek" Reservoir dead storage, KAF
118	PLUMMULT	"Plum Creek" Reservoir area-capacity curve multiplier
119	PLUMEXP	"Plum Creek" Reservoir area-capacity curve exponent
120	PLUMSPFAC	"Plum Creek" Reservoir seepage factor, percent
121	PLUMCFSOUT	"Plum Creek" Reservoir outflow, CFS
122-136	Not Used	blank

ADATA ITEMS

(ADATA(I,J);I=item number (up to 110 items);J=1-12, corresponding to months of the year)

Variable names are assigned in INITCOM subroutine as (NAME)=ADATA(I,J).

Item Number	Variable Name	Description (Note: for all flags, 0=NO, 1=YES, except where noted)
1	CONMAX	Lake McConaughy maximum end-of-month content, KAF
2	NLEVAP	Net lake evaporation, feet/month
3	HWLBUNGR	Howell-Bunger data (computed by model for July through September)
4	FLDSTAGENP	Flow in North Platte River at North Platte, Nebraska flood stage (cfs)
5	unused	
6	unused	
7	unused	
8	unused	
9	DPM	Days per month
10	unused	
11	KEYMIN	Keystone minimum bypass requirement, KAF
12	unused	
13	MAXKEY	Maximum Keystone diversion, KAF
14	unused	
15	SCMIN	Sutherland Canal minimum diversion requirement, CFS
16	unused	
17	KCCAP	Korty Canal average MONTHLY capacity, KAF/month (=1,100 cfs)
18	SCCAP	Sutherland Canal average MONTHLY capacity, KAF/month (=2,000 cfs), except 110 KAF/month in April and October to account for maintenance
19	unused	
20	SSLOSS	Sutherland system loss, KAF/month
21	SSLOSSLP	Sutherland Canal loss function slope
22	unused	
23	unused	
24	TCCCAP	Central District canal average MONTHLY capacity, KAF/month (=2,170 CFS)
25	TCLOSSA	Upper Central District canal average loss, 1979-1991, KAF
26	TCLOSS	Central District middle canal constant loss term, KAF/month
27	TCLOSSLP	Central District canal loss function slope
28	JFRCAP	Jeffrey hydro return average MONTHLY capacity, KAF/month (=600 CFS)
29	TCLOSSB	Lower Central District canal average loss, 1979-1991, KAF
30	unused	
31	ERLOSS	Elwood Reservoir loss, KAF/month
32	unused	
33	unused	
34	NPMIN	Central District North Platte diversion minimum bypass requirement, cfs
35		EA to reserve (minimum EA content), KAF
36	PRCNTEA	Percent of EA available each month for borrowing (any EA "borrow" month should be 1.0)
37	EAMINREL	Minimum EA release allowed; no EA releases less than this, CFS
38	OVFLAG	Flag to meet minimum flow requirement at Overton
39	WLSTR(1)	EA threshold volumes for instream flow releases, Level 1 (greatest)
40	WLSTR(2)	EA threshold volumes for instream flow releases, Level 2 (level 2 < level 1, level 3 < level 2, etc.)
41	WLSTR(3)	EA threshold volumes for instream flow releases, Level 3
42	WLSTR(4)	EA threshold volumes for instream flow releases, Level 4
43	WLSTR(5)	EA threshold volumes for instream flow releases, Level 5

44	WLSTR(6)	EA threshold volumes for instream flow releases, Level 6 (least)
45	CONSBOR	Conservation water attributable to USBR funds added to EA, KAF (0 except for October)
46	EANDRYCK	Potential EA water added by North Dry Creek groundwater pumping project
47	RIVRDRAIN	Water added from riverside drains (Cozad - Overton reach), KAF
48	EALOANFLG	Flag to allow EA to borrow from Lake McC May-July, to be paid back before Oct. with WY EA deliveries
49	unused	
50	unused	
51	TISFR(1)	Suggested monthly flow requirement, Level 1, KAF/month
52	TISFR(2)	Suggested monthly flow requirement, Level 2, KAF/month
53	TISFR(3)	Suggested monthly flow requirement, Level 3, KAF/month
54	TISFR(4)	Suggested monthly flow requirement, Level 4, KAF/month
55	TISFR(5)	Suggested monthly flow requirement, Level 5, KAF/month
56	TISFR(6)	Suggested monthly flow requirement, Level 6, KAF/month
57	unused	
58	GIFLAG	Flag to meet minimum flow requirement at Grand Island
59	GISFR	USFWS 10-J recommended flows in critical habitat reach, KAF - Grand Island
60	FWSWET	FWS instream flow target for wet condition, KAF/month
61	FWSAVE	FWS instream flow target for normal condition, KAF/month
62	FWSDRY	FWS instream flow target for dry condition, KAF/month
63	PCSHORT(J)	Present condition instream flow shortage, KAF/month (uses wet/average/dry %)
64	PCEXCESS(J)	Present condition instream flow excess, KAF/month (uses wet/average/dry %)
65	KRCAP	Kearney Canal diversion capacity, KAF/month
66	unused	
67	KRLOSS	Kearney Canal system loss, KAF/month
68	unused	
69	unused	
70	unused	
71		Function - Lake McConaughy elevation-storage, CONT1 through CONT6 = storage in KAF, ELEV1 through ELEV6 = elevation in feet
72	MACVH	McConaughy release flag, very high conditions
73	MACHI	McConaughy release flag, high conditions
74	MACNO	McConaughy release flag, normal conditions
75	MACLO	McConaughy release flag, low conditions
76	MACVL	McConaughy release flag, very low conditions
77	SUTHVH	Keystone Diversion flag, very high conditions
78	SUTHHI	Keystone Diversion flag, high conditions
79	SUTHNO	Keystone Diversion flag, normal conditions
80	SUTHLO	Keystone Diversion flag, low conditions
81	SUTHVL	Keystone Diversion flag, very low conditions
82	TRIVH	Tri-County Diversion flag, very high conditions
83	TRIHI	Tri-County Diversion flag, high conditions
84	TRINO	Tri-County Diversion flag, normal conditions
85	TRILO	Tri-County Diversion flag, low conditions
86	TRIVL	Tri-County Diversion flag, very low conditions
87	MACVHREL	Lake McConaughy release pattern, CFS, very high conditions
88	MACHIREL	Lake McConaughy release pattern, CFS, high conditions
89	MACNOREL	Lake McConaughy release pattern, CFS, normal conditions
90	MACLOREL	Lake McConaughy release pattern, CFS, low conditions
91	MACVLREL	Lake McConaughy release pattern, CFS, very low conditions (also used if Julesburg > flood flow)

92	SUTHVHREL	Keystone Diversion pattern, CFS, very high conditions
93	SUTHHIREL	Keystone Diversion pattern, CFS, high conditions
94	SUTHNOREL	Keystone Diversion pattern, CFS, normal conditions
95	SUTHLOREL	Keystone Diversion pattern, CFS, low conditions
96	SUTHVLREL	Keystone Diversion pattern, CFS, very low conditions
97	TRIVHREL	Tri-County Diversion pattern, CFS, very high conditions
98	TRIHIREL	Tri-County Diversion pattern, CFS, high conditions
99	TRINOREL	Tri-County Diversion pattern, CFS, normal conditions
100	TRILOREL	Tri-County Diversion pattern, CFS, low conditions
101	TRIVLREL	Tri-County Diversion pattern, CFS, very low conditions
102	PLUMALLOW	Flag whether reregulating ("Plum Creek") reservoir is allowed to store
103	GWMCAP	Groundwater management MONTHLY seepage capacity, KAF (= approximately 85 cfs)
104-110	unused	

HDATA ITEMS

(HDATA(K,I,J);K=item number (up to 32 items);I=year;J=1-12, corresponding to months of the year)

Variable names are assigned in INITCOM subroutine as (NAME)=ADATA(K,I,J).

Item Number	Variable Name	Description (Note: for all flags, 0=NO, 1=YES, except where noted)
1	LEWELN	North Platte River at Lewellen, NE (value depends on alternative being considered), KAF
2	JULES	South Platte River near Julesburg, CO, adjusted historic inflows (Hydrosphere, 6/26/2000), KAF
3	BIRD	Birdwood Creek near Hershey, NE, historic discharge, KAF
4	KSGN	North Platte River - Keystone to Sutherland revised present condition reach gains, KAF
5	SPNPGN	North Platte River - Sutherland to North Platte revised present condition reach gains, KAF
6	JPGN	South Platte River - Julesburg, CO to Paxton, NE, historic reach gains, KAF
7	PNPGN	South Platte River - Paxton to North Platte revised present condition reach gains, KAF
8	NPBGN	Platte River - North Platte to Brady revised present condition reach gains, KAF
9	BCGN	Platte River - Brady to Cozad historic reach gains, KAF
10	COGN	Platte River - Cozad to Overton revised present condition reach gains, KAF
11	OOGN	Platte River - Overton to Odessa historic reach gains, KAF
12	OGIGN	Platte River - Odessa to Grand Island revised present condition reach gains, KAF
13	GIDGN	Platte River - Grand Island to Duncan historic reach gains, KAF
14	KSDM	Keystone-Sutherland irrigation demand, KAF
15	SNPDM	Sutherland-North Platte irrigation demand, KAF
16	WCDM	Western Canal irrigation demand, KAF
17	TCIDM	Tri-County irrigation demand, KAF
18	BCIDM	Brady-Cozad irrigation demand, KAF
19	KRIDM	Kearney Canal irrigation demand, KAF
20	EALEW	Environmental Account deliveries at Lewellen, KAF
21	EAJUL	Julesburg additions to gage flows (Colorado rereg.), KAF
22	EAETO	ETO that could have been stored in USBR North Platte reservoirs, KAF
23	HISKEY	Keystone historic diversion, KAF
24	HIS3CO	Central historic diversion (includes corrections for gage errors), KAF
25	EREOMC	Target end-of-month content of Elwood Reservoir, KAF
26	RSEEP	Combined seepage and bank storage for Lake McConaughy (historic from 1950-1994), KAF
27	SRTARG	Average Sutherland system storage, KAF
28	JLTARG	Average Johnson system storage, KAF
29	CONSCO	Colorado conservation water at Julesburg, KAF
30	DLOUGN	Platte River - Grand Island to Duncan historic reach gain 1954-1994, KAF (1947-1953 based on Ashland flow)
	WYEAOW	
31	N	Environmental Account available for "borrowing", KAF
32	not used	

Appendix B

OPSTUDY variables dictionary

GLOBAL VARIABLE DEFINITION

Standard Nomenclature at Flow Nodes	
ETS	Evapo-transpiration Salvage
GN	Gain
GWC	Change in groundwater depletions
GWD	Accumulated change in groundwater depletions
GWDP	Original value of accumulation change in ground water depletion prior to additional passes in Phase I
DMD	Demand at --

Variable Names and Descriptions

Name	VariableType	Data Type	Description
ACCRUPER	REAL	CDATA	Lewellen Inflow to EA Accrual, PERCENT
ACEXP	REAL	CDATA	Lake McConaughy area-capacity curve exponent
ACMULT	REAL	CDATA	Lake McConaughy area-capacity curve multiplier
ADATA(110,12)	REAL ARRAY	input	Monthly constants
ADDSRDMD	REAL	computed	Additional Demand on Lake McConaughy to Meet Sutherland Demand, KAF
ADDTCDMD	REAL	computed	Additional demand on Lake McConaughy, KAF
ADJLEAP	REAL	computed	Adjust for leap year
AGHEAD(20)	CHARACTER	input	Line-group headings
ALHEAD(120)	CHARACTER	input	Line headings
ALOSCRED	REAL	computed	Give a loss credit for water diverted to JFHR since it doesn't hit middle reach
ALOSINC	not found		Increase in Central Canal loss meeting minimum flow requirement
AMPM	REAL	assigned	Sets time as being either AM or PM
ANAME(110)	CHARACTER	input	Description of monthly constants
ATHEAD(130)	CHARACTER	input	Table headings
AVECON	REAL	computed	Average EOM contents in Lake McConaughy, KAF
AVGDAILY(17)	REAL ARRAY	COMPUTED	Average daily flow for the month at each of 17 locations, CFS
AVGKAF(12)	REAL ARRAY	ADATA	Avg instream flow recommendation, KAF
AVGROW	INTEGER	computed	Array element number (rows) in Table for which shortage is computed using avg recommendations.

AYEAR	REAL	assigned	Number of years in the model
BCDMORIG	REAL	assigned	Original Brady-Cozad irrigation demand, KAF
BCETS	REAL	computed	Evapo-transpiration Salvage from Brady to Cozad, KAF
BCGN	REAL	HDATA	Brady to Cozad gain, KAF
BCGWC	REAL	computed	Change in ground water depletion from Brady to Cozad, KAF
BCGWD	REAL	computed	Accumulation change in ground water depletion at Brady, KAF
BCGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month at Brady, KAF
BCIDM	REAL	HDATA	Irrigation demand from Brady to Cozad, KAF
BCIDV	REAL	computed	Irrigation diversion from Brady to Cozad, KAF
BCIRSAV	REAL	computed	Irrigation reduction in demand on storage, KAF
BCSHORT	REAL	computed	Irrigation shortage not including conservation, KAF
BIRD	REAL	HDATA	Flow from Birdwood Creek, KAF
BLOSINC	REAL	computed	Increase in Central Canal loss meeting minimum flow requirementFlow from Birdwood Creek, KAF
BRADY	REAL	computed	Platte River near Brady, NE, KAF
BRADYMAX	REAL	COMPUTED	Maximum pulse flow at Brady in May, CFS
BRADYMAX2	REAL	COMPUTED	Maximum pulse flow at Brady in June, CFS
BRADYPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates at Brady, CFS
BRDMD	REAL	computed	Brady demand, KAF
BRDMDORIG	REAL	assigned	Original demand at Brady prior to Phase 2 looping, KAF
BYPASS	not found		Flow passing central diversion dam (KAF)
BYPEST	not found		Calculate Keystone Diversion Efficiency; based on analysis of historic data, Keystone doesn't divert all the water it can. Estimate annual by volume based on McConaughy storage in January
BYPSEY	not found		Unintentional Keystone bypass percentage
CALIBRAT	REAL	CDATA	Flag to use calibration option
CARRYOVER(4,5)	REAL ARRAY	computed	=SPIKEREL-SPIKERED (These terms are defined below), KAF
CASE(12)	CHARACTER	assigned	Case name
CDATA(140)	REAL ARRAY	input	Constant Data items (variable units)
CENTPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates for portion of pulse diverted into Central system, CFS
CFS	REAL	computed	Multiply by this to convert from CFS to KAF, divide for reverse
CHGMAX	INTEGER	input	Flag for historic Lake McConaughy levels. 0=use historic max if prior to 1984, 1=use max in ADATA

CHKDUNC	REAL	computed	Separate computations of flow at Duncan to check mass balance
CHTCDREQ	not found		not found
CNAME(110)	CHARACTER	input	Names of constants and initializing terms
COETS	REAL	computed	Evapo-transpiration Salvage from Cozad to Overton, KAF
COEXCHNG	REAL	CDATA	Flag to exchange Julesburg EA water into Lake McConaughy
COGN	REAL	HDATA	Cozad to Overton gain, KAF
COGWC	REAL	computed	Change in ground water depletion from Cozad to Overton, KAF
COGWD	REAL	computed	Accumulation change in ground water depletion from Cozad to Overton, KAF
COGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Cozad to Overton, KAF
COL	INTEGER	"DO" counter	Loop value to loop thru Table columns.
COMMENTS	CHARACTER	output	Output file comment line
CONDITION	REAL	assigned	Flag used to indicate very high, high, normal, low and very low storage and inflow conditions during operational release runs, KAF
CONHYDR	REAL	CDATA	Flag saying whether to use operational release during non-irrigation season
CONINF	REAL	computed	Sum of end of Sept. storage in Lake McConaughy and the inflow for the first six months of the water year to establish wet, dry, or transitional conditions, KAF
CONMAX	REAL	ADATA	Maximum Lake McConaughy content, KAF
CONMAXOLD	REAL	ADATA	Old McConaughy limits if an enlarged EA with the safety of dams fix is being modeled, KAF
CONMAXPRE	REAL	ADATA	Previous monthly allowable for calibration, KAF
CONS(12)	REAL ARRAY	computed	Amount of water added to the EA gathered from basin wide conservation, KAF
CONSBOR	REAL	ADATA	Conservation added to the EA as part of Reclamation's financing conservation in the Central District, KAF
CONSCO	REAL	HDATA	Conservation water from Colorado to be added to EAJUL, this water may or may not be exchanged into MAC EA, KAF
CONSCOC	REAL	computed	Amount of Colorad conservation water (CONSCO) in Tri-County Canal, KAF
CONSCOR	REAL	computed	Amount of Colorad conservation water (CONSCO) passingTri-County Canal (i.e. staying in river), KAF
CONSCORIG	REAL	assigned	Original Colorado conservation water prior to Phase 2 looping, KAF
CONSEASTOR	REAL	flag, CDATA	Flag to store new water from water conservation and groundwater management (0=no, 1=yes)
CONSERV	REAL	CDATA	Yes/No: If 1 use phased conservation else conservation constant
CONSNCCW	REAL	ADATA	Net controllable conserved water added to EA, KAF
CONSTBY	not found		Constant term in equation BYPEST

COZAD	REAL	computed	Platte River near Cozad, NE, KAF
COZADMAX	REAL	COMPUTED	Maximum pulse flow at Cozad in May, CFS
COZADMAX2	REAL	COMPUTED	Maximum pulse flow at Cozad in June, CFS
COZADPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates at Cozad, CFS
COZDMD	REAL	computed	Demand at Cozad adjusted for the Brady-Cozad gain, KAF
COZOP	REAL	CDATA	Cozad operational bypass, KAF
COZPASS	REAL	computed	Operational bypass at Cozad, KAF
CPHASED	INTEGER	CDATA	Flag to use phased conservation
CPRCK	REAL	flag, CDATA	Flag to indicate if Central Platte reregulating reservoir is running (0=no, 1=yes)
CPRR	REAL	CDATA	Central Platte Re-regulating Reservoir Reservoir online? 0=false 1=true
CPRRALLOW	REAL	ADATA	Central Platte Re-regulating Reservoir allowed to store? (1=Yes, 0=No)
CPRRCAP	REAL	CDATA	Central Platte Re-regulating Reservoir capacity, KAF
CPRRCFS	REAL	CDATA	Central Platte Re-regulating Reservoir inlet & outlet rate, CFS
CPRRCFSIN	REAL	CDATA	Central Platte Re-regulating Reservoir inlet capacity, CFS
CPRRCFSOUT	REAL	CDATA	Central Platte Re-regulating Reservoir outlet capacity, CFS
CPRRDEAD	REAL	CDATA	Central Platte Re-regulating Reservoir dead pool, KAF
CPRREOMC	REAL	computed	Central Platte Re-regulating Reservoir Res end-of-month content, KAF
CPRREOMLST	REAL	CDATA	Central Platte Re-regulating Reservoir starting content, KAF
CPRREVAP	REAL	computed	Evaporation from proposed Central Platte Re-regulating Reservoir, computed by calling Subroutine EVAP from INITCOM, KAF
CPRREXP	REAL	CDATA	Central Platte Re-regulating Reservoir area/capacity curve exponent
CPRRFLAG	REAL	computed	Flag to control whether Central Platte Re-regulating Reservoir Code is executed (0=YES, 1=NO)
CPRRIN	REAL	computed	Inflow into Central Platte Re-regulating Reservoir, KAF
CPRRMINCFS	REAL	CDATA	Central Platte Re-regulating Reservoir minimum release allowed, CFS
CPRRMULT	REAL	CDATA	Central Platte Re-regulating Reservoir area/capacity curve multiplier
CPRROUT	REAL	computed	Outflow from Central Platte Re-regulating Reservoir, KAF
CPRRRATE	REAL	computed	Central Platte Re-regulating Reservoir inlet flow rate, CFS
CPRRREL	REAL	computed	Monthly release from proposed Central Platte Re-regulating Reservoir, KAF
CPRRSEEP	REAL	computed	Estimated monthly seepage out of proposed Central Platte Re-regulating Reservoir, KAF
CPRRSPACE	REAL	computed	Empty space in proposed Central Platte Re-regulating Reservoir reservoir, KAF
CPRRSPFAC	REAL	CDATA	Central Platte Re-regulating Reservoir seepage factor, decimal percent

CPRRSPILL	REAL	computed	Central Platte Re-regulating Reservoir spill (KAF)
CPRRSTOR	REAL	computed	Central Platte Re-regulating Reservoir storage, KAF
D	INTEGER	screen input	If 6 dump debug data to screen. If 13 write to OPDEBUG.DAT
DAILYCFS(17,31)	REAL ARRAY	COMPUTED	Computed daily flows for every day of the month at each of 17 locations, CFS
DAYFLAG	INTEGER	flag, CDATE	Flag to indicate if daily flows are being calculated (0=no, 1=yes)
DEAD	REAL	CDATA	Lake McConaughy dead storage varied to hide EA water, KAF
DELALOSCREED	REAL	computed	Change in ALOSCRED applied in storage McConaughy, KAF
DIFDUNC	REAL	computed	Change in CHKDUNC-DUNCAN, KAF
DLOUGN	REAL	HDATA	Duncan-Louisville historic reach gain, KAF
DPM	REAL	ASSIGNED	Days per month
DPY	REAL	assigned	Days per year
DRYKAF(12)	REAL	ADATA	Hard code for dry targets, KAF
DUNCAN	REAL	computed	Platte River near Duncan, NE, KAF
EABORROW	REAL	computed	Amount EA borrows from Lake McConaughy storage in a current month, KAF
EABRADY	REAL	computed	Amount of EA water at Brady, KAF
EACCRUE	REAL	computed	Nebraska contribution to EA based on 10% Lewellen inflow during October through April, KAF
EACFSAVA	REAL	computed	Max CFS for the available EA supply
EACOZAD	REAL	computed	Amount of EA water at Cozad, KAF
EADAYSP	REAL	computed	Adjustment to EA when Lake McConaughy fills to regulatory limit (CONMAX), KAF
EADJUST	REAL	computed	Total EA adjustment, KAF
EADJUST1	REAL	computed	EA adjustment due to Lake McConaughy being full in the first part, KAF
EADJUST2	REAL	computed	EA adjustment due to Lake McConaughy being full in the second part, KAF
EADJUST3	REAL	computed	EA adjustment due to EA at capacity in first part, KAF
EADJUST4	REAL	computed	EA adjustment due to EA at capacity in second part, KAF
EAEOMLSTMO	REAL	assigned	EA contents previous month, KAF
EAEOMMAR	REAL	assigned	EA end-of-month content for March, KAF
EAEOMSEPT	REAL	assigned	EA end-of-month content for September, KAF
EAETO	REAL	computed	Excess to Ownership contributed to EA, KAF
EAETOPCT	REAL	CDATA	Percent of ETO that is stored in the EA
EAEVAP	REAL	computed	Evaporation allocated to EA, KAF
EAFUNC	REAL	computed	Maximum potential release available from EA, KAF

EAGRNDISL	REAL	computed	Amount of EA water at Grand Island, KAF
EAJFHR	REAL	computed	Amount of EA water at the Jeffrey Hydro Return, KAF
EAJNT	REAL	computed	Net EA water that makes it to Paxton is what would be exchanged into Lake Mac, KAF
EAJUL	REAL	HDATA	Colorado contribution to EA, KAF. It is assumed that the water is directly offset against water released from Lake McConaughy for non-EA purpose
EAJULLST	REAL	computed	Colorado EA water lost to negative Julesburg-Paxton gain, KAF
EAKAFAVA	REAL	computed	EA KAF available for pulse volume
EKEYSTN	REAL	computed	Amount of EA water at Keystone, KAF
EALARGE	REAL	CDATA	Flag to raise Lake McConaughy storage limits
EALEW	REAL	HDATA	Wyoming contribution to EA, KAF
EALOAN	REAL	CDATA	Enables EA to borrow from Lake McConaughy storage
EALOANFLG	REAL	ADATA	Specifies months in which EA may borrow from lake McConaught storage
EAMINREL	REAL	ADATA	Minimum EA release allowed in CFS
EANDRYCK	REAL	ADATA	EA water that is flowing in via North Dry Creek near Kearney, KAF.
EANEEDCFS	REAL	computed	Amount of water EA needs to borrow to make a pulse release, CFS
EANEEDKAF	REAL	computed	Amount of water EA needs to borrow to make a pulse release, KAF
EANETCW	REAL	CDATA	Net conserved water to add to the EA, KAF
EANPNP	REAL	computed	Amount of EA water in the North Platte River at North Platte, KAF
EAODESSA	REAL	computed	Amount of EA water at Odessa, KAF
EAOVERTON	REAL	computed	Amount of EA water at Overton, KAF
EAOWED	REAL	computed	Total amount EA owes Lake McConaughy for borrowing storage, KAF
EAPAYBK	REAL	computed	Amount EA pays back toward loan in a current month, KAF
EAPCDAYS	REAL	CDATA	Days of crest (flat) pulse, doesn't include rise & fall time
EAPCFS	REAL	assigned	EA pulse CFS release each month
EAPCFS1	REAL	computed	Max CFS rate considering max Overton flow
EAPCFS2	REAL	assigned	Minimum CFS needed and available cfs turbine space
EAPCFS3	REAL	computed	Minimum of: CFS needed, available turbine space, channel capacity, CFS
EAPCFS4	REAL	computed	Minimum of: EAPCFS3, available supply, CFS
EAPCODE	INTEGER	flag	Integer variable that tells why pulse was or wasn't made in May
EAPFALL	REAL	CDATA	Ramp rate down in CFS/DAY for falling limb of pulse release, must be -
EAPFDAYS	REAL	computed	Time in days of falling pulse limb

EAPFLG	REAL	CDATA	Flag to select short EA pulse in May, 1=Y, 0=N
EAPKAF	REAL	computed	Estimated KAF volume needed to reach pulse target
EAPKREL	REAL	assigned	EA pulse KAF release each month
EAPKREL5	REAL	assigned	Keep track of EA pulse release in May, KAF
EAPRDAYS	REAL	computed	Time in days of rising pulse limb
EAPRIFLG	REAL	flag, CDATA	Flag to give EA pulse release priority over other EA releases (0=no, 1=yes)
EAPRISE	REAL	computed	Ramp rate up in CFS/DAY for rising limb of pulse release, must be +
EAPTARG	REAL	CDATA	Decision point CFS for May & June regarding making an EA Pulse
EAPTARGLOW	REAL	CDATA	CFS below the EAPTARG which an EA Pulse is still allowed for if possible
EAPTARGMAX	REAL	CDATA	Pulse flow maximum allowed at Overton, CFS
EARESERVE	REAL	CDATA	Amount of EA water to hold back January-April to have enough for May and beyond, KAF
EASPNP	REAL	computed	Amount of EA water in the South Platte River at North Platte, KAF
EASTART	REAL	CDATA	Initial EA content, KAF
EASUM	REAL	computed	Cumulative EACRUE limited to 100 KAF/Yr
EASUTHLND	REAL	computed	Amount of EA water at Sutherland, KAF
EDAYSP	REAL	computed	Total days of EA pulse release (rise,crest,fall)
EOMACRE	REAL	computed	Reservoir surface area of Lake McConaughy at EOM, acres
EOMC	REAL	computed	End of month contents, KAF
EOMCEA	REAL	computed	End of month contents of EA, KAF
EOMCEAPRE	REAL	assigned	Amount of water that is available for delivery from the EA at the beginning of the current month, KAF
EOMCEATST	REAL	computed	Check of the mass balance on the EA, KAF
OMELEV	REAL	computed	Elevation at Lake McConaughy, feet
EOMLST	REAL	computed	Previous month's Lake McConaughy contents, KAF
EOMLST2	REAL	computed	Volume credited to the EA, KAF
EOMMAR	REAL	assigned	Lake McConaughy end-of-March content, KAF
EOMSEPT	REAL	assigned	End of September storage in Lake McConaughy, KAF
ERCHNG	REAL	computed	Change in Elwood reservation contents, KAF
ERDEAD	REAL	computed	Dead storage in Elwood, KAF
ERDMD	REAL	computed	Additional demand on Elwood Reservoir, KAF
EREOMC	REAL	computed	EOMC in Elwood, KAF
ERLOSS	REAL	ADATA	Evaporation and seepage in Elwood, KAF

ERTARG	REAL	ADATA	Target storage in Elwood, KAF
EXCESS	REAL	computed	Instream Flow Excess, KAF
EXTAB	INTEGER	assigned	Table number of excess values which subroutine SHORTEX will update with wet/avg/dry shortage and excess.
FALLHI	REAL	CDATA	Fall trigger to determine when conditions are high, KAF
FALLLO	REAL	CDATA	Fall trigger to determine when conditions are low, KAF
FALLNO	REAL	CDATA	Fall trigger to determine when conditions are normal, KAF
FALLVH	REAL	CDATA	Fall trigger to determine when conditions are very high, KAF
FERCNPPD	REAL	computed	FERC diversion requirement for Keystone/Sutherland system, KAF
FERCTRIC	REAL	assigned	FERC diversion requirement for Tri-County system, KAF
FLDFLO	REAL	CDATA	Flow in Julesberg in CFS which triggers a minimum release in Lake McConaughy to control flooding in base line scenarios
FLDSTAGENP	REAL	CDATA	Flood stage flow in the North Platte River at North Platte, CFS
FLOTOT	REAL	computed	Total gains of inflow and EA allocations from Colorado & Wyoming, KAF
FLOW(130,13)	REAL ARRAY	assigned	Monthly flow/gain/loss at each of 120 locations for 12 months and (13-th) the average annual value, KAF
FOURINF	REAL	computed	Inflow to Lake McConaughy for April, May, June, and July, KAF
FWSAVE	REAL	ADATA	Fish and Wildlife in stream flow target for average conditions,KAF
FWSDRY	REAL	ADATA	Fish and Wildlife in stream flow target for dry conditions, KAF
FWSWET	REAL	ADATA	Fish and Wildlife in stream flow target for wet conditions, KAF
GIAVA	REAL	computed	Available flow at Grand Island to determine EA release, KAF
GIDETS	REAL	computed	Evapo-transpiration Salvage from Grand Island to Duncan, KAF
GIDGN	REAL	HDATA	Gain from Grand Island to Duncan, KAF
GIDGWC	REAL	computed	Change in groundwater depletions from Grand Island to Duncan, KAF
GIDGWD	REAL	computed	Accumulation change in ground water depletion from Grand Island to Duncan, KAF
GIDGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Grand Island to Duncan, KAF
GIDMD	REAL	computed	Grand Island at Duncan demand, KAF
GIEXCES	REAL	computed	Surplus flow relative in stream flow target at Grand Island, KAF
GIFLAG	REAL	ADATA	Fish and Wildlife recommendations for Grand Island, KAF
GIREQ	REAL	ADATA	Required in stream flow at Grand Island, KAF
GISFR	REAL	ADATA	Average FWS flow recommendation for Fish and Wildlife at Grand Island, KAF
GISHORT	REAL	computed	Minimum flow shortage at Grand Island, KAF

GRNDILAST	REAL	assigned	Previous month's flow volume at Grand Island, KAF
GRNDISL	REAL	computed	Platte River near Grand Island, NE, KAF
GWCTOT	REAL	computed	Total of changes in ground water depletions for all reaches, KAF
GWMCAP	REAL	ADATA	Seepage capacity in KAF for GW Mgmt Project
GWMCRED	REAL	computed	GW Mgmt credit/month for EA & reduced Central demand, KAF
GWMCREDSUM	REAL	computed	GW Mgmt total credit sum, KAF
GWMEOMC	REAL	computed	End of month content in groundwater storage, KAF
GWMFLAG	REAL	computed	Flag to control whether the GW Management Project is executed
GWMKTARG	REAL	CDATA	GW Mgmt Proj target vol. to store & pump per year, KAF
GWMPROJ	REAL	CDATA	Flag tells whether GW Management Project is on
GWMPUMP	REAL	computed	Amount removed from ground water storage for irrigation in May-Sep, KAF
GWMSPACE	REAL	computed	Available "storage" space (GWMKTARG-GWMEOMC), KAF
GWMSTORE	REAL	computed	Amount taken from J2 Return and sent down the canals for groundwater storage, KAF
HDATA(34,52,12)	REAL ARRAY	input	34 Variables, 52 years, 12 months of hydrologic data (variable units)
HEADER	CHARACTER	HDATA	40-character header in HDATA file
HIDEEA	REAL	computed	EA water hidden in dead storage to prevent non-EA diversion when reservoir low, KAF
HIDEEASET	REAL	flag	Variable indicating that EA releases from WY & CO are being "hidden in dead storage" to prevent their use for other needs
HIS3CO	REAL	HDATA	History tri-county diversion, KAF
HISKEY	REAL	HDATA	Historic Keystone diversion, KAF
HISTDAILY(17,31)	REAL ARRAY	INPUT	Historic daily flows for every day of the month at each of 17 locations, CFS
HISTFLAG	REAL	flag, CDATA	Flag indicating whether historic flows are being simulated (0=no, 1=yes)
HISTORIC	REAL	CDATA	Switch to use historic diversion demand assumption at Keystone and Central diversions
HOLD(130,13)	REAL ARRAY	computed	Accumulation variables for summing flow data, KAF
HWAPER	REAL	CDATA	Percentage of Howell Bunger release allocated to August
HWJPER	REAL	CDATA	Percentage of Howell Bunger release allocated to July
HWLBUNGR(12)	REAL ARRAY	ADATA	Flow at Howell-Bunger valve, KAF
HWLCONS	REAL	CDATA	Percentage of Howell Bunger release allocated a constant term in June-Sept.
HWLOUT	REAL	computed	Constant term in the Howell Bunger equation as a function of Lake McConaughy June contents
HWLSLOP	REAL	CDATA	Slope term in the Howell Bunger equation as a function of Lake McConaughy June contents
HWSPER	REAL	CDATA	Percentage of Howell Bunger release allocated to September

HYOUT	REAL	assigned	Hydraulic capacity of Lake McConaughy turbines, KAF
HYOUTMAY	REAL	computed	Monthly avg hydro outflow in May, (doesn't include pulse), CFS
I	INTEGER	counter	Year variable (1 through [number of years])
IBEG	INTEGER	computed	model year to begin calculations
IDAY	INTEGER	assigned	Day of the month [1-31]
IDUM	INTEGER	HDATA	Year of data counter
IDXLSTR	INTEGER	assigned	Index variable associating the storage level with the instream flow requirements at Overton and Grand Island
IEND	INTEGER	input	Number of years in the model
IFINI	INTEGER	computed	Last year being analyzed
IFLAG	INTEGER	assigned	zero if within model; 1 after run completed
IFLG2	INTEGER	assigned	Flag indicating screen dump or debug file dump has started
IFRST	INTEGER	input	First year in Hdata input file
IGROUP(20)	INTEGER ARRAY	input	Number of lines in each group count
IHR	INTEGER	system	Hour that the model was run
IMIN	INTEGER	system	Minute that the model was run
IMON	INTEGER	assigned	Month of the year [1-13; Jan = 1; Tot/Avg = 13]
INFILE	CHARACTER	input from scrn	Name of the input file
INFO	CHARACTER	input	Comment text
INHDATA	CHARACTER	input	Name of HDATA input file
IPAS1	INTEGER	assigned	Code indicating a recomputation of McConaughy Demand
IPLT	INTEGER	input flag	Flag to write output in columns to .PLT file
IRRGREDBC	REAL	CDATA	Irrigation retaining factor for Brady-Cozad reach
IRRGREDKR	REAL	CDATA	Irrigation retaining factor for Kearney Canal
IRRGREDKS	REAL	CDATA	Irrigation retaining factor for Keystone-Sutherland reach
IRRGREDSNP	REAL	CDATA	Irrigation retaining factor for Sutherland-North platte reach
IRRGREDTC	REAL	CDATA	Irrigation retaining factor for Tri-County Canal
IRRGREDWC	REAL	CDATA	Irrigation retaining factor for Western Canal
ISTART	INTEGER	input	First year in study
ISTUDY	CHARACTER	input	Name of the study
ITRUEIPAS	INTEGER	computed index	Number of times McConaughy Demand has been computed

IV	INTEGER	counter	Month counter element establishing 6-month flow requirements
IVOL	INTEGER	counter	Threshold volumes associated with in stream flow releases counter
IWND	INTEGER	assigned computed	Hydrologic parameters wet, dry, transitional
IYEAR	INTEGER	index	Year being calculated in study
IYR	INTEGER	assigned	Today's year when making a run
IYRPS	INTEGER	input, assigned	Year to begin debug info
J	INTEGER	counter	Month variable (1 through 12)
J2CAP	REAL	CDATA	Capacity of J2 return, KAF
J2DCH	REAL	computed	Discharge to Johnson to hydro-electric project, KAF
J2GEN	REAL	computed	Johnson generation, KAF
J2HR	REAL	computed	Return flow to the Platte River, KAF
J2PULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates for portion of diverted pulse coming back in at J2 Return, CFS
JEA	not found		Month of EA eomc to use with PERFUNC percentage
JEFFREYPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates for portion of diverted pulse coming back in at Jeffrey Return, CFS
JFAVA	REAL	computed	Flow available to Jeffrey Hydro project, KAF
JFAVA2	REAL	computed	Lesser of the capacity available in the Central Canal or Jeffrey return, KAF
JFGEN	REAL	computed	Jeffrey generation, KAF
JFHR	REAL	computed	Jeffrey hydro return, KAF
JFRCAP	REAL	ADATA	Jeffrey capacity, KAF
JJ	INTEGER	counter	Counter for potential loss
JLCHNG	REAL	computed	Change in Johnson Lake storage, KAF
JLDEAD	REAL	computed	Dead storage in Johnson, KAF
JLDMD	REAL	computed	Additional demand on Johnson Lake, KAF
JLEOMC	REAL	computed	Julesberg EOM content, KAF
JLSPIECAP	REAL	CDATA	Storage available in Johnson Lake to attenuate spike flows, KAF
JLSPIEFLAG	INTEGER	flag, CDATA	Flag to attenuate spike flows with Johnson Reservoir releases (0=no, 1=yes)
JLSPIKESTOR	REAL	computed	Previous spike storage in Johnson Lake, KAF
JLTARG	REAL	HDATA	Target storage for Johnson Lake, KAF
JPETS	REAL	computed	Evapo-transpiration Salvage at Julesberg-Paxton, KAF
JPGN	REAL	HDATA	Julesberg-paxton gain, KAF

JPGWC	REAL	computed	Change in groundwater depletions at Julesberg-Paxton, KAF
JPGWD	REAL	computed	Accumulation change in ground water depletion at Julesberg, KAF
JPGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month at Julesberg, KAF
JULES	REAL	HDATA	South Platte River near Julesburg, CO, KAF
JULES_ESTJ	REAL	COMPUTED	Total June flow at Julesburg, KAF
K	INTEGER	counter	Counter to compute FLOTOT mass balance check
KAFTAB	INTEGER	assigned	Table number of KAF values which subroutine SHORTEX will update with wet/avg/dry shortage and excess.
KCCAP	REAL	ADATA	Capacity at Korty Canal, KAF
KCDV	REAL	computed	Korty Canal diversion, KAF
KDIS	INTEGER	flag	Flag for whether to write information to screen
KEYCAP	REAL	COMPUTED	Allowable channel capacity in the Keystone Diversion, CFS
KEYDEC	REAL	assigned	Keystone diversion value for previous December, KAF
KEYDMD	REAL	computed	Keystone demand, KAF
KEYDV	REAL	computed	Sutherland canal diversion at Keystone, KAF
KEYMAC	REAL	CDATA	Lake McConaughy trigger level for Keystone bypass, KAF
KEYMIN	REAL	ADATA	Keystone bypass requirement, KAF
KEYPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates at Keystone, CFS
KEYSDMD	REAL	computed	Keystone demand on storage, KAF
KEYSTN	REAL	computed	Flow at Keystone, KAF
KORTY	REAL	computed	Korty at South Platte river flow, KAF
KORTYAV	REAL	computed	Flow available at Korty for diversion, KAF
KRCAP	REAL	ADATA	Kearney Canal Capacity, KAF
KRDV	REAL	computed	Kearney Canal total diversion, KAF
KRHDM	REAL	ADATA	Kearney Canal hydro demand, KAF
KRHRTN	REAL	computed	Kearney Hydro Return, KAF
KRIDM	REAL	HDATA	Kearney Canal irrigation demand, KAF
KRIDMORIG	REAL	assigned	Original Kearney Canal irrigation demand, KAF
KRIDV	REAL	computed	Kearney Canal total diversion, KAF
KRIRSAV	REAL	computed	Irrigation savings (conservation) for Western Canal
KRLOSS	REAL	computed	Kearny canal system loss, KAF

KRSDMD	REAL	computed	Kearney Canal storage demand, KAF
KRSHORT	REAL	computed	Kearney Canal irrigation shortage, KAF
KSDM	REAL	HDATA	Keystone-Sutherland irrigation demand, KAF
KSDMORIG	REAL	assigned	Original Keystone-Sutherland irrigation demand, KAF
KSDV	REAL	computed	Keystone-Sutherland total diversion, KAF
KSETS	REAL	computed	Evapo-transpiration Salvage at Keystone-Sutherland, KAF
KSGN	REAL	HDATA	Keystone to Sutherland gain, KAF
KSGWC	REAL	computed	Change in groundwater depletions from Keystone to Sutherland, KAF
KSGWD	REAL	computed	Accumulation change in ground water depletion from Keystone to Sutherland, KAF
KSGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Keystone to Sutherland, KAF
KSIRSAV	REAL	computed	Reduction in Korty-Sutherland irrigation demand, KAF
KSSHORT	REAL	computed	Keystone-Sutherland irrigation diversion shortage, KAF
KTEF	REAL	computed	Constant Korty diversion efficiency
KTEFFLG	INTEGER	CDATA	If zero use equations, otherwise constant
KTKYMIN	REAL	CDATA	Combined minimum flow for Keystone and Korty diversion, KAF
KTMP	REAL	computed	Korty diversion in CFS
KTPROT	REAL	CDATA	Flag to protect CO Conservation Water past Korty Div.
LENCASE	INTEGER	assigned	Number of characters in name CASE
LEWELN	REAL	HDATA	North Platte River at Lewellen, NE, KAF
LIMIT	INTEGER	assigned	Bubble sort variable
LIMITCODE1	INTEGER	computed	Counter for how often EA water availability limits pulse releases
LIMITCODE2	INTEGER	computed	Counter for how often channel capacity at North Platte limits pulse releases
LIMITCODE3	INTEGER	computed	Counter for how often turbine capacity limits pulse releases
LIMITCODE4	INTEGER	computed	Counter for how often pulse release is made with borrowing
LIMITCODE5	INTEGER	computed	Counter for how often pulse release requirements are met
LIMITEA	INTEGER	computed	Counter for how often EA is limited by North Platte choke point
LOHISTRIG	REAL	CDATA	Lake McConaughy trigger volume for suspending historic diversion assumption, KAF
LOUISCFs	REAL	computed	Platte River near Louisville, NE, CFS
LOUISKAF	REAL	computed	Platte River near Louisville, NE, KAF
LUNAVG	INTEGER	logical unit	File containing score, change in excess, and minimum, average, maximum line from each Table.

LUNDAY	INTEGER	assigned	Logical unit number for daily flow output file
LUNDEB	INTEGER	assigned	OPDEBUG.DAT Logical unit number
LUNGAG	INTEGER	assigned	Logical unit number for output flow at critical points
LUNHDT	INTEGER	assigned	Logical unit number for HDATA input file (.INH)
LUNHIS	INTEGER	assigned	Logical unit number for historic daily flow output file
LUNINP	INTEGER	assigned	Logical unit number for main input file (.INP)
LUNOPO	INTEGER	assigned	Logical unit number for main (chronological) output file
LUNOPT	not found		Output file
LUNOST	INTEGER	assigned	Logical unit number for EA acct and Lake Mac variables output
LUNPLS	INTEGER	assigned	Logical unit number for EA pulse release output file
LUNPLT	INTEGER	assigned	Logical unit number for output of data in column format for plotting
LUNTAB	INTEGER	assigned	Logical unit number for output of data in table format
LUNTAR	INTEGER	assigned	Logical unit number for daily IFR target output file
LUNTXT	INTEGER	assigned	Logical unit number for output of data in comma-delimited text table format
M	INTEGER	counter	Day counter used in DAILY subroutine
MACDMD	REAL	computed	Lake McConaughy demand, KAF
MACELEV	REAL	computed	Lake McConaughy elevation for current month, feet
MACEST	REAL	computed	Estimated Mac outflow thru turbines in May, KAF
MACESTCFS	REAL	computed	Estimated Mac outflow thru turbines in May, CFS
MACEVAP	not found		Lake McConaughy evaporation
MACGEN	REAL	computed	Kingsley hydro, KAF
MACHEAD	REAL	computed	Gross head at Kingsley, feet
MACHI	REAL	ADATA	Elevation of Lake McConaughy which triggers maximum operation release, feet
MACHIREL	REAL	computed	Operational releases from Lake McConaughy during high conditions, KAF
MACLO	REAL	ADATA	Lake McConaughy content for minimum operational release, KAF
MACLOREL	REAL	computed	Operational releases from Lake McConaughy during low conditions, KAF
MACMAX	REAL	CDATA	Previous EOM of McConaughy which sets Central (Tri-county) Canal flow to canal capacity, KAF
MACMAXPULSE	REAL	CDATA	Maximum CFS rate thru turbine penstock for EA pulse
MACMIN	REAL	CDATA	Previous EOM of McConaughy above the flow in the canal is at the target, KAF
MACNO	REAL	ADATA	Flag to make operational releases from Lake McConaughy during normal conditions, KAF
MACNOREL	REAL	ADATA	Operational releases from Lake McConaughy during normal conditions, KAF

MACOUT	REAL	computed	Total flow out of Lake McConaughy,KAF
MACOUTDAILY(61)	REAL ARRAY	COMPUTED	Daily outflow from Lake McConaughy, CFS
MACOUTMAY	REAL	computed	Total Mac outflow in May, KAF
MACREL	REAL	computed	Operational release from Lake McConaughy for baseline scenarios, KAF
MACVH	REAL	ADATA	Flag to make operational releases from Lake McConaughy during very high conditions, KAF
MACVHREL	REAL	ADATA	Operational releases from Lake McConaughy during very high conditions, KAF
MACVL	REAL	ADATA	Flag to make operational releases from Lake McConaughy during very low conditions, KAF
MACVLREL	REAL	ADATA	Operational releases from Lake McConaughy during very low conditions, KAF
MASSTRIG	INTEGER	assigned	Switch indicating an imbalance has occurred, execution will stop after December of current year
MAXDAILY(17)	REAL ARRAY	computed	maximum daily flow for each gage during the month, CFS
MAXDAILYJUNE(17)	REAL ARRAY	computed	maximum daily flow for each gage during June, CFS
MAXDAILYMAY(17)	REAL ARRAY	computed	maximum daily flow for each gage during May, CFS
MAXKEY	REAL	ADATA	Monthly maximum Keystone diversion, KAF
MAXLOCATION	INTEGER	assigned	Day (in May or June) when maximum flow occurred at Julesburg
MAXVALUE	REAL	COMPUTED	Maximum flow at Julesburg, CFS
MAYJUNECFS(17,61)	REAL ARRAY	COMPUTED	Computed daily flows for May and June at each of 17 locations, CFS
MINDAILY(17)	REAL ARRAY	COMPUTED	Minimum daily flow for the month, CFS
MNGSPL	REAL	computed	Spill through morning glory spillway, KAF
MONAME(12)	CHARACTER	assigned	Month name (ie January)
MOPAUS	INTEGER	assigned	Debug dump for months
N	INTEGER	ASSIGNED	Location number assigned to each location and read into subroutine DISTDAILY
NA	INTEGER	input	Number of average monthly ADATA elements
NC	INTEGER	input	Number of elements in CDATA
NCL	INTEGER	input	Number of comment lines
NDRYCKFLG	REAL	CDATA	Flag tells whether North Dry Creek GW pumping project is on
NG	INTEGER	input	Number of line group headings
NH	INTEGER	input	Number of monthly elements in HDATA
NL	INTEGER	input	Number of line headings
NLEVAP	REAL	computed	Net Lake evaporation in feet per month
NLN	INTEGER	"DO" index	Number of flow arrays
NMTH	INTEGER	"DO" index	Number of month

NONEABRADY	REAL	computed	Amount of non-EA water at Brady, KAF
NONEACOZAD	REAL	computed	Amount of non-EA water at Cozad, KAF
NONEAGRNDISL	REAL	computed	Amount of non-EA water at Grand Island, KAF
NONEAJFHR	REAL	computed	Amount of non-EA water at the Jeffrey Hydro Return, KAF
NONEAKEYSTN	REAL	computed	Amount of non-EA water at Keystone, KAF
NONEANPNP	REAL	computed	Amount of non-EA water in the North Platte River at North Platte, KAF
NONEAODESSA	REAL	computed	Amount of non-EA water at Odessa, KAF
NONEAOVERTON	REAL	computed	Amount of non-EA water at Overton, KAF
NONEASPNP	REAL	computed	Amount of non-EA water in the South Platte River at North Platte, KAF
NONEASUTHLND	REAL	computed	Amount of non-EA water at Sutherland, KAF
NPATNPCAP	REAL	COMPUTED	Difference between flood capacity in North Platte River at North Platte (NPNP) and the flow in NPNP 2 days before a planned pulse flow release, CFS
NPBETS	REAL	computed	Evapo-transpiration Salvage from N. Platte to Brady, KAF
NPBGN	REAL	HDATA	Gain from N. Platte to Brady, KAF
NPBGWC	REAL	computed	Change in groundwater depletions from N. Platte to Brady, KAF
NPBGWD	REAL	computed	Accumulation change in ground water depletion from N. Platte to Brady
NPBGWDP	REAL	assigned	Groundwater depletion from North Platte to Brady, KAF
NPBYDMD	REAL	computed	Water that must bypass the Tri-County diversion dam to satisfy the on-stream demand below North Platte, KAF
NPCHKFLG	INTEGER	flag, CDATA	Flag to indicate if flow in the North Platte River at North Platte is being restricted to flood stage flow (0=no, 1=yes)
NPFLOWAV	REAL	computed	Available flow capacity in the North Platte River at North Platte
NPHCAP	REAL	CDATA	North Platte hydro return capacity, KAF
NPHR	REAL	computed	North Platte hydro return, KAF
NPHYSICAL	REAL	computed	Physically available flow at the Tri-County Diversion, KAF
NPMAC	REAL	CDATA	McConaughy control content for Central Diversion bypass, KAF
NPMIN	REAL	ADATA	Central Diversion N. Platte diversion minimum bypass requirement, KAF
NPNP	REAL	computed	North Platte River flow at North Platte, KAF
NPSDMD	REAL	computed	Storage demand at N. Platte, KAF
NPTOTAL	not found		Total flow at North Platte, KAF
NPTOTAV	REAL	computed	Total flow at North Platte, KAF
NRES	INTEGER	input	Element number for EOM content line in flow array
NT	INTEGER	input	Number of summary tables

NTBL	INTEGER	"DO" index	Number of Tables
NUMYRS	INTEGER	computed	Number of years in Tables
NYEAR	INTEGER	computed	Number of model years
NYEAR	INTEGER	INPUT	Model simulation year
NYI	INTEGER	input	Number of years of HDATA
NYR	INTEGER	"DO" index	Number of years in the analysis
ODESSA	REAL	computed	Platte River at Odessa, NE, KAF
ODEXCES	REAL	computed	Excess at Odessa relative to avg IFR, KAF
ODSHORT	REAL	computed	Shortage at Odessa relative to avg IFR, KAF
OGIETS	REAL	computed	Evapo-transpiration Salvage at Odessa to Grand Island, KAF
OGIGN	REAL	HDATA	Gain from Odessa to Grand Island, KAF
OGIGWC	REAL	computed	Change in groundwater depletions from Odessa to Grand Island, KAF
OGIGWD	REAL	computed	Accumulation change in ground water depletion from Odessa to Grand Island, KAF
OGIGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Odessa to Grand Island, KAF
OISFR	REAL	ADATA	Fish and wild life recommendations for Overton, KAF
OOETS	REAL	computed	Evapo-transpiration Salvage at Overton to Odessa, KAF
OOGN	REAL	HDATA	Gain from Overton to Odessa, KAF
OOGWC	REAL	computed	Change in groundwater depletions at Overton to Odessa, KAF
OOGWD	REAL	computed	Accumulation change in ground water depletion from Overton to Odessa, KAF
OOGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Overton to Odessa, KAF
ORGSCCAP	REAL	assigned	Sutherland canal capacity, KAF
OUTAVG	CHARACTER	assigned	Name of *.AVG (average) output file
OUTGAG	CHARACTER	assigned	Output filename for flows in gauged locations
OUTOPO	CHARACTER	assigned	Output filename for listing by months and years
OUTOST	CHARACTER	assigned	Output filename for spread sheet parameters
OUTPLS	CHARACTER	assigned	Name of *.PLS (pulse) output file
OUTPLT	CHARACTER	assigned	Output filename for plotting parameters
OUTTAB	CHARACTER	assigned	Output filename for tabular output
OUTTXT	CHARACTER	assigned	Name of *.TXT (text) output file which is input into "EISgraphsndata.xls" spread sheet

OVAVA	REAL	computed	Platte river flow available at Overton before in stream flow releases, KAF
OVCFSMAYPK	REAL	computed	May peak flow at Overton (if a pulse was made), CFS
OVDMD	REAL	computed	Wildlife demand at Overton, KAF
OVERACFT	REAL	computed	Monthly volume at Overton in acre-ft
OVERTON	REAL	computed	Platte River near Overton, NE, KAF
OVEXCES	REAL	computed	Minimum flow excess at Overton (KAF)
OVFLAG	REAL	ADATA	Flag to meet minimum flow requirement at Overton
OVINCDMD	not found		Incremental flow at Overton between current value in Phase 2 and wild life release in Phase 1
OVINCR	not found		Overton incremental flow to meet daily flow requirements
OVMAY23CFS	REAL	computed	May 23 flow at Overton, CFS
OVMAYMAXCFS	REAL	computed	Estimated maximum daily flow at Overton May 15-May 31, CFS
OVMAYMINCFS	REAL	computed	Estimated Overton minimum daily flow, CFS
OVMAYNOPULSEAF	REAL	computed	Estimated Overton May flow w/o an EA pulse release, acre-feet
OVMAYNOPULSECFS	REAL	computed	Estimated Overton May flow w/o an EA pulse release, CFS
OVMAYPK	REAL	computed	Peak flow at Overton (May 10th or May 23rd), CFS
OVMAYWLSREL	REAL	computed	Total EA release in May (monthly base + pulse), KAF
OVREQ	REAL	ADATA	Overton wildlife storage demand, KAF
OVSHORT	REAL	computed	Minimum flow shortage at Overton (KAF)
PAXTON	REAL	computed	South Platte River near Paxton, NE, KAF
PCEXCESS (13)	REAL ARRAY	ADATA	Present Condition Excess, KAF
PCSHORT (13)	REAL ARRAY	ADATA	Present Condition Shortage, KAF
PEAKCFS	REAL	computed	Overton peak daily flow in CFS within the current month
PEAKSPRING	REAL	computed	Maximum mean daily flow at Overton in May and June, CFS
PEAKYRCFS	REAL	sorted out	Maximum Daily Peak CFS at Overton for the water year
PEAKYRJ	INTEGER	assigned	Month the Maximum Daily Peak CFS at Overton for the water year occurred (1=Jan, 2=Feb, etc.)
PNPETS	REAL	computed	Evapo-transpiration Salvage at Paxton to N. Platte, KAF
PNPGN	REAL	HDATA	Gain from Paxton to N. Platte, KAF
PNPGWC	REAL	computed	Change in groundwater depletions at Paxton to N. Platte, KAF
PNPGWD	REAL	computed	Accumulation change in ground water depletion at Paxton to N. Platte, KAF
PNPGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month at Paxton to N. Platte, KAF

PRCNTEA	REAL	ADATA	EA percentage available each month
PROGH2O	REAL	CDATA	Volume of program water at confluence of North and South Platte Rivers, KAF
PULSE1	INTEGER	computed	These variables count the number of pulse flow events
PULSE10	INTEGER	computed	
PULSE2	INTEGER	computed	
PULSE3	INTEGER	computed	
PULSE4	INTEGER	computed	
PULSE5	INTEGER	computed	
PULSE6	INTEGER	computed	
PULSE7	INTEGER	computed	
PULSE8	INTEGER	computed	
PULSE9	INTEGER	computed	
PULSECAP(61)	REAL ARRAY	COMPUTED	Daily pulse flow release capacity from Lake McConaughy, CFS
PULSECAP(61)	REAL ARRAY	COMPUTED	Computed pulse flow release from Lake McConaughy, CFS
PULSELOAN	REAL	assigned	A subset of EABORROW, amount borrowed for pulse release in May, KAF
PULSESUM	REAL	COMPUTED	Volume of water used to make a pulse release, CFS
PWPROT	REAL	assigned	Flag enables all program water to be protected from diversion at Central, used in conjunction with TCPROT
PWRDIVISOR	REAL	CDATA	Divide the power interference volume by this factor for amount to give to EA
PWRINTFR	REAL	assigned	Flag to select power interference scenario, must be used with STATEEA=1
PWRLOOP	INTEGER	counter	This variable controls execution of power interference code and assignment of water to EA
PWRXKAF	REAL	computed	Amount of MACDMD that can be not released and credited to EA (power interference)
PX1	REAL	computed	x-coordinates for May EA pulse flow hydrograph, CFS first point is (px1,py1), 2nd point is (px2,py2), etc.
PX2	REAL	computed	
PX3	REAL	computed	
PX4	REAL	computed	
PX5	REAL	computed	
PX6	REAL	computed	
PXSSDMD	REAL	computed	Amount of SSDMD that is "excess" to basic canal requirements (power interference), KAF
PXTCDMD	REAL	computed	Amount of TCDREQ that is "excess" to basic canal requirements (power interference), KAF
PY1	REAL	computed	
PY2	REAL	computed	

PY3	REAL	computed	y-coordinates for May EA pulse flow hydrograph, CFS
PY4	REAL	computed	computed at the end of the COMPUTE subroutine
PY5	REAL	computed	
PY6	REAL	computed	
REDUCEDMD	REAL	assigned	Reduced irrigation demand due to conservation, KAF
RELEAS	REAL	assigned	Release from Lake McConaughy excluding spills, KAF
REVAP	REAL	computed	Evaporation loss from Lake McConaughy, KAF
RIVRDFLG	REAL	CDATA	Flag tells whether Cozad to Overton Riverside Drains are active
RIVRDRAIN	REAL	ADATA	Cozad to Overton inflow from Riverside Drains, KAF
RSEEP	REAL	HDATA	Lake McConaughy seepage and bank storage factors, KAF
SCCAP	REAL	computed	Sutherland canal capacity, KAF
SCDV	REAL	computed	Sutherland Canal diversion, KAF
SCMAC	REAL	CDATA	McConaughy control content for Sutherland canal minimum diversion, KAF
SCMIN	REAL	ADATA	Sutherland minimum diversion requirement, KAF
SCORES (13)	REAL ARRAY	computed	Grand Island Shortage, KAF
SCOREX (13)	REAL ARRAY	computed	Grand Island Excess, KAF
SCRATCH(52,2)	REAL	computed	Temporary location
SEEP	REAL	computed	Lake McConaughy seepage and bank storage factors, KAF
SGEN	REAL	computed	Sutherland hydro generation, KAF
SHORT	REAL	computed	Current flow in the river minus previous groundwater depletions, KAF
SHTAB	INTEGER	assigned	Table number of shortage values which subroutine SHORTEX will update with wet/avg/dry shortage and excess.
SIXINF	REAL	computed	Summation of flows of N. Platte river at Lewellen October-Dec of current year, Jan-March of later year, KAF
SNPDM	REAL	computed	Reduced Sutherland to N. Platte irrigation demand, KAF
SNPDMORIG	REAL	assigned	Original Sutherland-North Platte irrigation demand, KAF
SNPDV	REAL	computed	Sutherland-North Platte irrigation diversion and shortage, KAF
SNPETS	REAL	computed	Evapo-transpiration Salvage at Sutherland to N. Platte, KAF
SNPGN	REAL	HDATA	Gain from Sutherland to N. Platte, KAF
SNPGWC	REAL	computed	Change in groundwater depletions from Sutherland to N. Platte, KAF
SNPGWD	REAL	computed	Accumulation change in ground water depletion from Sutherland to N. Platte, KAF
SNPGWDP	REAL	computed	Original value of accumulation change in ground water depletion prior to additional passes in preceding month from Sutherland to N. Platte, KAF

SNPIRSAV	REAL	computed	reduction in irrigation demand - Sutherland to N. Platte, KAF
SNPSHORT	REAL	computed	Sutherland to N. Platte shortage, KAF
SPIKERED	REAL	computed	The amount of "spike flow" attenuated at the J2 Return, KAF
SPIKEREL	REAL	computed	The amount of "spike flow" released through the J2 Return, KAF
SPILL	REAL	computed	Spill over Kingsley Dam Morning Glory spillway, KAF
SPILL_ESTJ	REAL	computed	Estimated reservoir spill in June (Estimate is made in May), KAF
SPILL_MAY	REAL	computed	May reservoir spill (morning glory & turbine), KAF
SPILL_MAY	REAL	computed	Reservoir spill im May, KAF
SPILL2	REAL	computed	That portion of the wild life storage release that would have spilled due to the regulatory capacity of Lake McConaughy, KAF
SPNP	REAL	computed	South Platte at N. Platte, KAF
SPRINGHI	REAL	CDATA	Spring trigger to determine when conditions are high, KAF
SPRINGLO	REAL	CDATA	Spring trigger to determine when conditions are low, KAF
SPRINGNO	REAL	CDATA	Spring trigger to determine when conditions are normal, KAF
SPRINGVH	REAL	CDATA	Spring trigger to determine when conditions are very high, KAF
SRCHNG	REAL	computed	Change in storage at Sutherland Reservoir, KAF
SRDEAD	REAL	computed	Dead storage in Sutherland reservoir, KAF
SRDMD	REAL	computed	Sutherland Reservoir Storage demand, KAF
SREOMC	REAL	computed	Sutherland reservoir initial EOM content, KAF
SRTARG	REAL	HDATA	Sutherland reservoir target EOM storage, KAF
SSDMD	REAL	computed	Sutherland system demand, KAF
SSDMDOLD	REAL	assigned	Sutherland system demand prior to the addition of the canal operational flow, KAF
SSINCRS	REAL	computed	Increase in the Sutherland canal flow to bring up to the minimum canal flow, KAF
SSLOSS	REAL	ADATA	Sutherland system loss, KAF
SSLOSS1	REAL	computed	Sutherland Canal losses in Phase 2, KAF
SSLOSSINC	REAL	computed	Sutherland System loss increment (loss on water to makeup loss), KAF
SSLOSSINCEA	REAL	computed	EA losses in Sutherland System, KAF
SSLOSSLP	REAL	ADATA	Sutherland canal loss function slope
SSLOSSM	REAL	computed	Maximum potential loss in the Sutherland canal and hydro system, KAF
STATEEA	REAL	CDATA	Switch to do Nebraska state EA
SUM_SPIKERED	REAL	computed	Johnson Lake spike reduction for the month, KAF

SUMHEAD(130)	REAL ARRAY	flag	When set to zero causes the table variable to be added, set to one prorates the sum based on the yielding annual average ratio
SUMLINE(145)	REAL ARRAY	input	Determine whether 13th value of line output is sum(1) or average(2) of monthly values
SUMPCEX	REAL	computed	Sum of monthly Present Condition Excess values,KAF
SUMPCSH	REAL	computed	Sum of monthly Present Condition Shortage values, KAF
SUMTABLE(145)	REAL ARRAY	input	Determine whether 13th value of table output is sum(1), average(2), or max. (3) of monthly values
SUTHCAP	REAL	COMPUTED	Max. Sutherland Canal capacity - Sutherland Diversion flow - previous day's Korty Diversion flow, CFS
SUTHDEAD	not found		Dead storage in Sutherland reservoir
SUTHDMD	REAL	computed	Irrigation demand at Sutherland, KAF
SUTHFLOWAV	REAL	computed	Remaining capacity in the Sutherland Canal, KAF
SUTHHI	REAL	ADATA	Flag to make operational diversion to the Sutherland Canal during high conditions
SUTHHIREL	REAL	ADATA	Operational diversion to the Sutherland Canal during high conditions, KAF
SUTHLND	REAL	computed	North Platte River at Sutherland, NE, KAF
SUTHLO	REAL	ADATA	Flag to make operational diversion to the Sutherland Canal during low conditions
SUTHLOREL	REAL	ADATA	Operational diversion to the Sutherland Canal during low conditions, KAF
SUTHNO	REAL	ADATA	Flag to make operational diversion to the Sutherland Canal during normal conditions
SUTHNOREL	REAL	ADATA	Operational diversion to the Sutherland Canal during normal conditions, KAF
SUTHPULSE(61)	REAL ARRAY	COMPUTED	Routed pulse hydrograph ordinates for portion of pulse diverted into Sutherland system, CFS
SUTHREL	REAL	computed	Target release of storage from Sutherland Reservoir, KAF
SUTHRETCAP	REAL	COMPUTED	Max. Sutherland Hydro Return capacity - Sutherland Hydro Return flow 2 days before planned pulse release, CFS
SUTHVH	REAL	ADATA	Flag to make operational diversion to the Sutherland Canal during very high conditions
SUTHVHREL	REAL	ADATA	Operational diversion to the Sutherland Canal during very high conditions, KAF
SUTHVL	REAL	ADATA	Flag to make operational diversion to the Sutherland Canal during very low conditions
SUTHVLREL	REAL	ADATA	Operational diversion to the Sutherland Canal during very low conditions, KAF
SWITCH	REAL	assigned	Bubble sort variable
TABLE(130,55,13)	REAL ARRAY	assigned	Tabular data (various units)
TABROW	INTEGER	assigned	Correct row in table for a given year
TCAVA	REAL	computed	Demand on system storage, KAF
TCCCAP	REAL	ADATA	Central canal capacity, KAF
TCDMD	REAL	computed	Total Tri-County demand, KAF
TCDPRE	REAL	computed	Value of Tri-County diversion requirement before setting it to full canal flow when the previous EOM is greater than

			the regulator limit in Lake McConaughy, KAF
TCDREQ	REAL	computed	Tri-county diversion requirement, KAF
TCDREQ1	REAL	computed	Historic Tristage required, KAF
TCDV	REAL	computed	Tri-County Canal diversion, KAF
TCEF	REAL	computed	Tri-County diversion efficiency
TCEFFLG	REAL	CDATA	Flag to determine if Tri-County efficiency is either 1 or total Platte river
TCGEN	REAL	computed	Central District hydro generation, KAF
TCIDM	REAL	computed	Tri-county irrigation demand, KAF
TCIDMORIG	REAL	assigned	Original Tri-County (Central system) irrigation demand, KAF
TCIDV	REAL	computed	Tri-county diversion, KAF
TCIRSAV	REAL	computed	Reduction in tri-county irrigation demand, KAF
TCLMAX	REAL	computed	Maximum loss in Tri-County canal for a given month flow, KAF
TCLOSS	REAL	ADATA	intercept of the Tri-County canal loss function
TCLOSS1	REAL	computed	Tri-County loss, KAF
TCLOSSA	REAL	ADATA	Upper central canal average loss, KAF
TCLOSSB	REAL	ADATA	Lower central canal average loss, KAF
TCLOSSINC	REAL	computed	Incremental losses in Tri-County canal associated with wild life flow release and Kearney storage demand releases, KAF
TCLOSSINCEA	REAL	computed	EA losses in Tri-County System (KAF)
TCLOSSLP	REAL	ADATA	slope of the Tri-County canal loss function
TCMDIV	REAL	computed	Minimum Tri-county diversion, KAF
TCMDV	REAL	CDATA	Tri-county min div requirement(central diversion), CFS
TCPASS	REAL	computed	Flow pass Central. District. N. Platte div., KAF
TCPOINT	REAL	CDATA	Value for line slope of max Tri-County diversion equation, CFS
TCPROT	REAL	assigned	Flag to say whether Colorado Conservation water (CONSCO) is being protected from diversion past the Tri-County and downstream canals (1.0=YES, 0.0=NO)
TCSHORT	REAL	computed	Irrigation shortage for Tri-County, KAF
TEMP	REAL	assigned	Temporary scratch variable
TEMP1	REAL	assigned	Bubble sort variable
TEMP2	REAL	assigned	Bubble sort variable
TETS	REAL	computed	Total Evapo-transpiration Salvage, KAF

THNKGRAN	not found		What you think you are getting at Grand Island in Phase 1
THNKOVER	not found		What you think you are getting at Overton in Phase
TIME	CHARACTER	assigned	Dummy variable called by the function Call DATE_AND_TIME
TISFR (6)	REAL ARRAY	ADATA	Target instream flow requirement which is set depending on the storage in the EA account in the previous month, KAF
TITLE(2)	CHARACTER	---->	Study title(1, assigned) and description (2, input)
TOTAVA	not found		Estimate total available flow at North Platte
TOTGEN	REAL	computed	Total hydro generation, KAF
TOTIRRDV	REAL	computed	Summation of all irrigation diversion, KAF
TOTIRSAV	REAL	computed	Summation of reduced irrigation demands, KAF
TOTIRSHORT	REAL	computed	Total irrigation shortage, KAF
TOTIRSHT	REAL	computed	Total irrigation shortage, projects only, KAF
TOTLOSS	REAL	computed	Summation of losses from Elwood reservoir, Kearney Canal, Sutherland, and Tri-county, KAF
TOTSTOR	REAL	computed	Summation of total change of storage for Sutherland, Elwood, and Johnson, KAF
TRIH	REAL	ADATA	Flag to make operational diversion to the Tri-county Canal during high conditions
TRIHIREL	REAL	ADATA	Operational diversion to the Tri-county Canal during high conditions, KAF
TRILO	REAL	ADATA	Flag to make operational diversion to the Tri-county Canal during low conditions
TRILOREL	REAL	ADATA	Operational diversion to the Tri-county Canal during low conditions, KAF
TRINO	REAL	ADATA	Flag to make operational diversion to the Tri-county Canal during normal conditions
TRINOREL	REAL	ADATA	Operational diversion to the Tri-county Canal during normal conditions, KAF
TRIVH	REAL	ADATA	Flag to make operational diversion to the Tri-county Canal during very high conditions
TRIVHREL	REAL	ADATA	Operational diversion to the Tri-county Canal during very high conditions, KAF
TRIVL	REAL	ADATA	Flag to make operational diversion to the Tri-county Canal during very low conditions
TRIVLREL	REAL	ADATA	Operational diversion to the Tri-county Canal during very low conditions, KAF
TURSPACE	REAL	computed	Estimated available turbine space left in May, CFS
TURSPL	REAL	computed	Water released through turbines in excess of storage demand
USEBCGN	REAL	assigned, HDATA	Brady-Cozad gain that can be used for irrigation, KAF
USEJPGN	REAL	assigned, HDATA	Julesburg-Paxton gain that can be used for irrigation, KAF
USENPBGN	REAL	assigned, HDATA	North Platte-Brady gain that can be used for irrigation, KAF
V1	REAL	computed	Volume of rising limb of pulse flow hydrograph, AF

V2	REAL	computed	Volume of steady limb of pulse flow hydrograph, AF
V3	REAL	computed	Volume of falling limb of pulse flow hydrograph, AF
WCDM	REAL	HDATA	Western Canal irrigation demand, KAF
WCDMORIG	REAL	assigned	Original Western Canal irrigation demand, KAF
WCDV	REAL	assigned	West Canal diversion, KAF
WCIRSAV	REAL	computed	Irrigations savings (conservation) for Western Canal, KAF
WCSHORT	REAL	computed	Western Canal shortage, = Western Canal demand less Western Canal diversion, KAF.
WETKAF(12)	REAL ARRAY	ADATA	Wet instream flow recommendation, KAF
WETROW	INTEGER	computed	Array element number (rows) in Table for which shortage is computed using wet recommendations.
WLSMD	REAL	computed	Wildlife storage demand, KAF
WLSREL	REAL	computed	Total storage release for wild life purposes, KAF
WLSTR (6)	REAL ARRAY	ADATA	Threshold storage values which help determine the volume to be released from the EA, KAF
WYEAOWN	REAL	HDATA	Amount which accrues to Wyoming EA accounts, by month, KAF
WYEAOWNTOT	REAL	computed	Running total amount in Wyoming EA which Nebraska EA may borrow from Lake McConaughy and pay back out of the Wyoming EA later
XTMP	REAL	assigned	Set temporary variable
ZJFHR	REAL	assigned	The Jeffrey Hydro computed in Phase I of the Compute subroutine, KAF
ZONE	CHARACTER	assigned	Dummy variable called by the function Call DATE_AND_TIME

APPENDIX C. RESERVOIR OPERATING RULES DURING THE NON-IRRIGATION SEASON FOR PREDICTED YEAR TYPES *(summarized from: Appendix A, Water Component; TAB 1A, An Environmental Account for Storage Reservoirs on the Platte River System in Nebraska, of the Cooperative Agreement for Platte River Research and Other Efforts Relating to Endangered Species Habitats Along the Central Platte River, Nebraska)*

Year Type	Lake McConaughy Contents ¹	Keystone Diversion Dam ³	Central Diversion Dam ³	Other
Very Wet	Plus PSNI ² > 2.1 maf	≥700 cfs Avg. ≥875 cfs	<u>Oct. 10 - Nov. 15:</u> ≥1,000 cfs; Avg. 1,600 cfs <u>Nov. 16-Feb. 14:</u> ≥800 cfs; Avg. 1,000 cfs <u>Feb. 15-~May 1⁴:</u> ≥1,100 cfs; Avg. 1,400 cfs	No upper limit on outflows from Lake McConaughy other than meeting standards for safety and beneficial use.
Wet	≥1.50 maf or Plus PSNI ² : 1.85 maf - 2.1 maf	≥ 700 cfs <u>If Oct.1 lake level is <1.25maf:</u> ≥450 cfs	<u>Oct. 10 - Nov. 15:</u> ≥900 cfs; Avg. 1,200 cfs <u>Nov. 16-Feb. 14:</u> ≥800 cfs; Avg. 1,000 cfs <u>Feb. 15-~May 1⁴:</u> ≥1,000 cfs; Avg. 1,240 cfs	No upper limit on outflows from Lake McConaughy other than meeting standards for safety and beneficial use. Releases should be managed to allow Lake McConaughy to fill to ≈1.5 maf by Mar. 31 and to licensed or authorized capacity thereafter. Filling to less than ≈1.5 maf by Mar. 31 is allowed if expected inflows after that date could cause spills or downstream flooding. If needed to allow Lake McConaughy to fill, releases from Central Diversion Dam could follow rates outlined for Transitional conditions.
Transitional	Between wet and dry conditions	≥450 cfs Avg. ≤900 cfs (exclusive of the EA)	<u>Oct. 10 - Nov. 15:</u> ≥900 cfs; Avg. 1,000 cfs <u>Nov. 16-Feb. 14:</u> ≥800 cfs; Avg. 950 cfs <u>Feb. 15-~May 1⁴:</u> ≥850 cfs; Avg. 1,100 cfs	No upper limit on outflows from Lake McConaughy other than meeting standards of safety and beneficial use. Releases should be managed to allow Lake McConaughy to fill to between 1.27 and 1.5 maf by Mar. 31, taking into account if the transition is from wet to dry or dry to wet. If needed to allow Lake McConaughy to fill, releases from Central Diversion Dam could follow rates outlined for dry conditions.

APPENDIX C. CONT.

Year Type	McConaughy Contents ¹	Keystone Diversion Dam ³	Central Diversion Dam	<i>Other</i>
Dry	< 800 kaf or <u>Plus PSNI²:</u> < 1.55 maf	Avg. 250 cfs - 700 cfs (exclusive of EA)	<u>Oct. 10 - Nov. 15:</u> ≥700 cfs; Avg. 900 cfs <u>Nov. 16-Feb. 14:</u> ≥700 cfs; Avg. 850 cfs <u>Feb. 15-~May 1⁴:</u> ≥800 cfs; Avg. 960 cfs	No upper limit on outflows from Lake McConaughy other than meeting standards for safety and beneficial use. Releases should be managed to impound between 250 kaf and 550 kaf during the non-irrigation season to optimize reservoir storage. If needed to allow Lake McConaughy to fill, releases from Central Diversion Dam may be less than the average but not less than the minimums for a dry year.
Very Dry	<650 kaf	Avg. 250 -700 cfs		Non-irrigation season releases below those for a very dry year shall be coordinated and managed to maximize multiple use of water and to share shortage effects.

¹ As of Oct. 1 and including the EA

² Oct. 1-Mar. 31

³ Non-Irrigation Season Releases

⁴ Beginning of irrigation season

APPENDIX D

OPSTUDY Assumptions Regarding Water Operations for Diversions at the Keystone Diversion Dam and Central District Supply Canal

The following information was developed by Central Nebraska Public Power and Irrigation District (CNPPID) and Nebraska Public Power District (NPPD) (collectively the Districts) and the EIS Team to provide reasonable assumptions for hydrologic modeling and analysis of diversions at the Keystone Diversion Dam and Central Diversion Dam to be used for analysis in the EIS and BO.

This attachment describes how the procedures and priorities for storing and releasing water from Lake McConaughy (operations) are simulated for the Program. For the Program, the Districts suggested that the assumptions described below could be used by the EIS Team in the Central Platte OPSTUDY model to represent the range of future diversions at the facilities as part of a Program (Personal Communications, Mike Drain, CNPPID, and Frank Kwapnioski, NPPD, August 1999).

The licenses issued by the Federal Energy Regulatory Commission to the Districts in 1998 provide that certain flows are to be available at diversion structures owned by the Districts (see a description of non-irrigation season releases from Lake McConaughy for diversion at the Keystone Diversion Dam and the Central Diversion Dam, is in Program Attachment 5, Section 5, An Environmental Account for Storage Reservoirs on the Platte River System in Nebraska (EA Document)). In most instances, however, the Districts expect flows at the Central Diversion Dam will be greater than those required in the EA Document. In 1999, in order to make the OPSTUDY modeling more realistic than assuming only the required flows, the Districts assisted the EIS team in developing “Operational Assumptions” for use in OPSTUDY to evaluate the Program. The Districts believe those assumptions are still reasonable for the purpose of modeling, assuming water supply received from the North and South Platte Rivers and other conditions are similar to those in the 48 year study period in OPSTUDY (1947-1994). The Districts’ actual operations, however, will be in accordance with the Districts’ Annual Operating Plan (AOP), and will take into consideration many more factors than could be reflected in the “Operational Assumptions”. Actual flows likely will be greater or lesser than the flows in the “Operational Assumptions” used in OPSTUDY. For example, although specific diversion quantities are specified for modeling purposes for each storage condition, actual flows may be substantially less in years of extreme drought, and substantially greater in years that are closer to the transition between the “dry” and “very dry” ranges¹. In addition, the severe drought conditions experienced from 2000 to 2005 may result in water supplies and diversions smaller than those assumed in the 1947 to 1994 period of analysis.

Appendix B (FWS’ Use of The Central Platte OPSTUDY Model in Computing Reductions in Shortages to target Flows) describes how Program water project operations are compared to project descriptions in annual reviews during the first Program increment. Because the modeling

¹Note: Storage conditions defined in Attachment 5, Section 5, use classifications of “Very Wet”, “Wet”, “Transitional”, “Dry” and “Very Dry”. Storage Conditions defined in this document use classifications of “Very High”, “High”, “Normal”, “Low”, and “Very Low”. All storage conditions are included in the OPSTUDY model.

assumptions are very simplified representations of ranges of District operations, actual annual operating data is not expected to “match up” with the modeling assumptions. If, however, data on actual operations indicates over time that the “operating assumptions” in the model are unrealistic, the operating assumptions in the model can be updated and the resulting change in scoring of shortage reduction towards the First Increment objective determined. Significant differences between actual operating data over time and operating assumptions which suggest to FWS that the operating assumptions are unrealistic must first be brought to the Governance Committee.

OPSTUDY Modeling of Proposed Program Reservoir Operations

Water is often released from Lake McConaughy in excess of the volume needed to satisfy the downstream operating flows described in the EA Document. The size of the release depends on the amount of water requested by a water user holding rights to the water, how much water is available in Lake McConaughy, natural flow availability, system operational requirements, weather and drought conditions to the point of delivery, other demands on the river, the ability to produce power with the water, the need for power, and other factors.

In the Central Platte OPSTUDY model, the amount of water to release depends on the end of September and the end of March storage in Lake McConaughy. The model, beginning in October, determines a release level for the non-irrigation season based on the end of September Lake McConaughy storage. The model then reevaluates the release level based on the end of March Lake McConaughy storage plus the April through July inflow into Lake McConaughy. The model determines whether conditions are very high, high, normal, low, or very low, and also determines whether conditions are very wet, wet, transitional, dry, or very dry. The levels of estimated Lake McConaughy storage and inflow that trigger the various classifications are shown in the table below (see Attachment 5, Section 5, for classifications of “Very Wet”, “Wet”, “Transitional”, “Dry” and “Very Dry”):

Condition	October Estimate (acre-feet).	April Estimate (acre-feet)
Very High	>1,400,000	>2,000,000
High	1,300,000 to 1,400,000	1,600,000 to 2,000,000
Normal	1,000,000 to 1,300,000	1,200,000 to 1,600,000
Low	800,000 to 1,000,000	800,000 to 1,200,000
Very Low	< 800,000	< 800,000

For each of the above conditions, the following modeling assumptions guide releases and deliveries.

Very high conditions

1. Meet the following diversion to Tri-County.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(cfs)	1600.	2000.	2000.	2200.	2200.	2200.	2200.	2200.	2000.	2000.	2000.	1600.

- Also, ensure that the flow out of Lake McConaughy never goes below.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(cfs)	0.	0.	0.	2000.	2000.	2000.	2000.	0.	0.	0.	0.	0.

3. Also, ensure that the diversion to the Sutherland Canal never goes below.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(cfs)	0.	0.	0.	1000.	1000.	1000.	0.	0.	0.	0.	0.	0.

High conditions

1. Meet the following diversion to Tri-County.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(cfs)	1400.	1800.	1800.	2000.	2000.	2000.	2000.	2000.	2000.	1800.	1800.	1400.

Normal conditions:

1. Meet the following diversion to Tri-County.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(cfs)	1200.	1400.	1400.	1600.	1600.	1600.	1600.	1600.	1600.	1400.	1400.	1200.

Low conditions

1. Meet the following diversion to Tri-County.

[illegible]

Very low conditions

1. Meet the following diversion to Tri-County.

[illegible]

Appendix E

Sample Main Input File (Present.inp)

CENTRAL NEBRASKA OPSTUDY MODEL, PLATTE RIVER EIS OFFICE
PRESENT CONDITION WITH OPERATIONAL RULES

```
Present.inh      Name of file containing HDATA
Present          ISTDY  Name of the study
1947             ISTART First year of study (usually equal to IFRST)
1994             IEND   Last year of study (usually last year of avail data)
17              NG      Number of line group headings
123             NL      Number of line headings
175             NT      Number of Summary tables
150             NC      Number of elements in CDATA
110             NA      Number of average monthly ADATA elements
40              NH      Number of monthly elements in HDATA
1947            IFRST   First year of data in HDATA
48              NYI     Number of years of HDATA
0               IPLT    Flag to write output in columns to the *.PLT file
2               KDIS    Whether to write info to screen
14             NCL      Number of comment lines (the next NCL of lines are comments)
```

COMMENTS

```
' This is the EIS staff interpretation of the Present Condition Baseline.
' OPERATING RULES
'
' LEWELLEN REFERENCE INFLOWS
'
' ADJUSTED MAC RELEASE PATTERN !!!!!!!!!!!!!!!
'
' VERY HIGH, HIGH, NORMAL, DRY, VERY DRY RELEASE PATTERNS TIED TO FALL/SPRING STORAGE
'
'
'
```

```
DATA          FLAG SETTINGS ALWAYS MEAN:  1=TRUE, 0=FALSE      -----
VARIABLE  -----
###-VALUE-----CENTRAL PLATTE RIVER OPSTUDY MODEL----PLATTE RIVER EIS OFFICE      unit/type
###  name
1 0.0      USE HISTORIC DIVERSION DEMAND ASSUMPTION AT KEYSTONE AND CENTRAL      FLAG
1 HISTORIC
2 0.0      MAC TRIGGER FOR SUSPENDING HISTORIC DIVERSION ASSUMPTION      KAF
2 LOHISTRIG
3 1.0      USE DISCRETIONARY OPERATIONAL HYDRO RELEASES      FLAG
3 CONHYDR
4 0.0      USE MCCONAUGHY MAXIMUM HISTORIC CONTENT LIMITS (USUALLY FOR CALIBRATION)  FLAG
4 CALIBRAT
5 1.0      FLAG TO CALCULATE DAILY FLOWS      FLAG
5 DAYFLAG
6 0.0      FLAG TO HAVE THE MODEL PRODUCE NEAR HISTORIC FLOW VALUES      FLAG
6 HISTFLAG
7 0.0      NOT USED      blank
7
8 0.0      NOT USED      blank
8
9 9999999.9 ***** LAKE MCCONAUGHY *****      blank
9
10 1535.0   LAKE MC CONAUGHY STARTING CONTENT      KAF
10 EOMLST
11 1469.0   LAKE MCCONAUGHY EOMC SEPTEMBER DECISION CONTENT FOR YEAR TYPE      KAF
11 EOMSEPT
12 0.0      LAKE MC CONAUGHY DEAD STORAGE      KAF
12 DEAD
13 0.43237  LAKE MC CONAUGHY AREA-CAPACITY CURVE MULTIPLYER      REAL
13 ACMULT
14 0.58035  LAKE MC CONAUGHY AREA-CAPACITY CURVE EXPONENT      REAL
14 ACEXP
15 150.21   HOWELL-BUNGER VALVE CONSTANT      REAL
15 HWLCONS
16 -0.07244 HOWELL-BUNGER VALVE SLOPE      REAL
16 HWLSLOP
17 0.3      HOWELL BUNGER VALVE PERCENTAGE, JULY      REAL
17 HWJPER
18 0.5      HOWELL BUNGER VALVE PERCENTAGE, AUGUST      REAL
18 HWAPER
19 0.2      HOWELL BUNGER VALVE PERCENTAGE, SEPTEMBER      REAL
19 HWSPER
20 1600.0   CRITICAL S. PLATTE CFS TO REDUCE MAC OUTFLOW      KAF
20 FLDFLO
21 1580.0   UPPER MCCONAUGHY CONTROL CONTENT CENTRAL      KAF
21 MACMAX
22 0.0      CENTRAL DISTRICT MINIMUM DIVERSION CONTROL CONTENT      KAF
22 MACMIN
```

23	1600.0	MAC SEPT EOMC FALL VERY HIGH OPERATIONAL TRIGGER	KAF
23		FALLVH	
24	1450.0	MAC SEPT EOMC FALL HIGH OPERATIONAL TRIGGER	KAF
24		FALLHI	
25	1200.0	MAC SEPT EOMC FALL NORMAL OPERATIONAL TRIGGER	KAF
25		FALLNO	
26	900.0	MAC SEPT EOMC FALL LOW OPERATIONAL TRIGGER	KAF
26		FALLLO	
27	600.0	MAC SEPT EOMC FALL VERY LOW OPERATIONAL TRIGGER	KAF
27		FALLVL	
28	2800.0	MAC MAR EOMC + 4 MONTH INFLOW SPRING VERY HIGH OPERATIONAL TRIGGER	KAF
28		SPRINGVH	
29	1950.0	MAC MAR EOMC + 4 MONTH INFLOW SPRING HIGH OPERATIONAL TRIGGER	KAF
29		SPRINGHI	
30	1700.0	MAC MAR EOMC + 4 MONTH INFLOW SPRING NORMAL OPERATIONAL TRIGGER	KAF
30		SPRINGNO	
31	1400.0	MAC MAR EOMC + 4 MONTH INFLOW SPRING LOW OPERATIONAL TRIGGER	KAF
31		SPRINGLO	
32	1000.0	MAC MAR EOMC + 4 MONTH INFLOW SPRING VERY LOW OPERATIONAL TRIGGER	KAF
32		SPRINGVL	
33	0.0	CFS VALUE FOR LINE SLOPE OF MAX TRI COUNTY DIV, USE 0.0 IF NOT APPLICABLE	REAL
33		TCPOINT	
34	0.0	NOT USED	blank
34			
35	0.0	NOT USED	blank
35			
36	9999999.9	***** CENTRAL DISTRICT *****	blank
36			
37	0.0	CD DIVERSION BY-PASS - LOW MCCONAUGHY CONTROL CONTENT	KAF
37		NPMAC	
38	50.0	COZAD OPERATIONAL BYPASS	CFS
38		COZOP	
39	0.0	CALCULATE TRI-COUNTY DIVERSION EFFICIENCY, 1.0=USE NEXT CDATA)	FLAG
39		TCEFFLG	
40	1.0	CONSTANT TRI_COUNTY CANAL DIVERSION EFFICIENCY FACTOR	REAL
40		TCEF	
41	0.0	CENT DIST MIN DIV REQ (CFS), STATE EA CODE MAY RESET THIS	CFS
41		TCMDV	
42	14.2	ELWOOD RESERVOIR STARTING CONTENT	KAF
42		EREOMC	
43	0.0	FLAG TO NOT DIVERT AT TRI-COUNTY DURING PULSE FLOWS	FLAG
43		CENTPULSE	
44	40.0	JOHNSON LAKE STARTING CONTENT	KAF
44		JLEOMC	
45	450.0	J2 MINIMUM RETURN	CFS
45		J2MIN	
46	2000.0	J2 RETURN CAPACITY	CFS
46		J2CAP	
47	0.0	FLAG TO RELEASE IRRIGATION WATER TO AUGMENT THE PULSE	FLAG
47		TCIRRPULSE	
48	0.0	FLAG TO NOT DIVERT WATER TO ELWOOD RESERVOIR THUS AUGMENTING THE PULSE	FLAG
48		ELWPULSE	
49	0.0	NOT USED	blank
49			
50	0.0	NOT USED	blank
50			
51	0.0	NOT USED	blank
51			
52	9999999.9	***** SUTHERLAND/NPPD SYSTEM *****	blank
52			
53	0.0	KEYSTONE BY-PASS - LOW MCCONAUGHY CONTROL CONTENT	KAF
53		KEYMAC	
54	0.0	SUTHERLAND CANAL MIN. DIV. REQ. LOW MCC. CONTROL CONTENT	KAF
54		SCMAC	
55	0.0	CALCULATE DIVERSION EFFICIENCY, 1.0 = USE NEXT CDATA)	FLAG
55		KTEFFLG	
56	1.0	CONSTANT KORTY CANAL DIVERSION EFFICIENCY FACTOR	REAL
56		KTEF	
57	000.0	MINIMUM COMBINED SUTHERLAND-KEYSTONE DIVERSION	CFS
57		KTKYMIN	
58	42.5	SUTHERLAND RESERVOIR STARTING CONTENT	KAF
58		SREOMC	
59	0.0	FLAG TO CONSIDER A CHOKE POINT AT NORTH PLATTE FOR EA OPERATIONS	FLAG
59		NPCHKFLG	
60	1850.0	NORTH PLATTE HYDRO RETURN CAPACITY	CFS
60		NPHCAP	
61	80.0	FIRST YEAR PREVIOUS DEC SUTH DIV	KAF

61	KEYDEC	
62 0.0	FLAG TO NOT DIVERT AT KORTY DURING PULSE FLOWS	FLAG
62	KORTYPULSE	
63 0.0	NOT USED	blank
63		
64 0.0	NOT USED	blank
64		
65 0.0	NOT USED	blank
65		
66 9999999.9	***** ENVIRONMENTAL ACCOUNT, LAKE MCCONAUGHY *****	blank
66		
67 0.0	ENVIRONMENTAL ACCOUNT IN LAKE MCCONAUGHY IS ACTIVE	FLAG
67	STATEEA	
68 0.0	ENLARGED EA FLAG (RAISED MCCONAUGHY STORAGE LIMITS)	FLAG
68	EALARGE	
69 0.0	ENVIRONMENTAL ACCOUNT STARTING CAPACITY	KAF
69	EASTART	
70 0.0	LEWELLEN INFLOW TO EA ACCRUAL (%)	REAL
70	ACCRUPER	
71 0.0	IF MAC FILLS SET EA CONTENT=100 KAF 1= ALWAYS 2= ONLY IF EA CONTENT>100 KAF	FLAG
71	LMFILLFLG	
72 9999999.9	*****IRRIGATION LEASING/CONSERVATION*****	blank
72		
73 0.0	CONSERVATION/LEASING WATER FLAG	FLAG
73	CONSERV	
74 1.00000	IRRIG RETAINING FACTOR, % (KEY-SUTH CANALS CONSERVE/LEASING)	REAL
74	IRRIGREDKS	
75 1.00000	IRRIG RETAINING FACTOR, % (SUTH-NP CANALS CONSERVE/LEASING)	REAL
75	IRRIGREDSNP	
76 1.00000	IRRIG RETAINING FACTOR, % (TC CANAL CONSERVE/LEASING)	REAL
76	IRRIGREDTC	
77 1.00000	IRRIG RETAINING FACTOR, % (BRADY-COZAD CANALS CONSERVE/LEASING)	REAL
77	IRRIGREDBC	
78 1.00000	IRRIG RETAINING FACTOR, % (KEARNEY CANAL CONSERVE/LEASING)	REAL
78	IRRIGREDKR	
79 0.0	NET CONSERVED WATER ADDED TO EA, SUM OF ABOVE, OR CALC. BY MODEL IF 0.0	KAF
79	EANETCW	
80 1.00000	IRRIG RETAINING FACTOR, % (WESTERN CANAL CONS/LEASE OF NATFLOW	REAL
80	IRRIGREDWC	
81 9999999.9	*****BORROW/PAYBACK FROM MAC AND POWER INTERFERENCE*****	blank
81		
82 0.0	ENABLE BORROW/PAYBACK, EA MAY BORROW FROM MAC (SEE A48)	FLAG
82	EALOAN	
83 0.0	FLAG FOR POWER INTERFERENCE PROJECT	FLAG
83	PWRINTFR	
84 0.0	POWER INTERFERENCE DIVISOR (POTENTIAL/DIVISOR IS AMOUNT TO EA)	REAL
84	PWRDIVISOR	
85 0.0	FLAG TO USE REMAINING POWER INTERFERENCE FOR NE FUTURE DEPLETIONS	FLAG
85	NE_PWRINTFR	
86 0.0	NOT USED	blank
86		
87 0.0	NOT USED	blank
87		
88 9999999.9	*****IS EA WATER PROTECTED OR UNPROTECTED, TAMARACK EXCHANGE *****	blank
88		
89 0.0	FLAG TO PROTECT CO CONSERVATION (CONSCO) WATER PAST KORTY DIV	FLAG
89	KTPROT	
90 0.0	FLAG TO PROTECT CONSCO WATER PAST CENTRAL DIVERSION	FLAG
90	TCPROTP	
91 0.0	FLAG TO PROTECT EA RELEASES FROM DIVERSION AT CENTRAL	FLAG
91	PROGH2O	
92 0.0	PERCENT OF ETO WATER TO PLACE IN THE EA	REAL
92	EAETOPCT	
93 0.0	FLAG TO EXCHANGE TAMARACK EA WATER INTO MAC	FLAG
93	COEXCHNG	
94 9999999.9	*****EA PULSE FLOWS TARGETED IN APRIL/MAY *****	blank
94		
95 0.0	FLAG TO SELECT SHORT EA PULSE IN MAY,	FLAG
95	EAPFLG	
96 0.0	FLAG TO GIVE PULSE FLOWS PRIORTIY	FLAG
96	EAPRIFLG	
97 5700.	MAXIMUM CFS RATE THRU TURBINE PENSTOCK FOR EA PULSE	CFS
97	MACMAXPULSE	
98 0.0	EA PULSE FLOW TARGET MAXIMUM AT OVERTON	CFS
98	EAPTARGMAX	
99 0.0	DAYS OF SUSTAINED (FLAT) PULSE NOT INCL. RISE & FALL	DAYS
99	EAPCDAYS	

100	0.0	RAMP RATE UP IN CFS/DAY FOR RISING LIMB, + VALUE	CFS/DAY
100		EAPRISE	
101	0.0	RAMP RATE DOWN IN CFS/DAY FOR FALLING LIMB, - VALUE	CFS/DAY
101		EAPFALL	
102	0.0	PK DAILY DECISION FLOW LEVEL RE EA PULSE, CFS OCT-JUN	CFS
102		EAPTARG	
103	0.0	AMOUNT BELOW EAPTARG LEVEL TO PULSE ANYWAY IF EA CAN	CFS
103		EAPTARGLOW	
104	0.	1ST DAY PULSE IS TO OCCUR, VALUE BTWN 5 & 53 (5=APR 5, 53=MAY 23, 0=RANDOM) DAYS	
104		PULSEDAY1	
105	0.	2ND DAY PULSE IS TO OCCUR, VALUE BTWN 5 & 53 (5=APR 5, 53=MAY 23, 0=RANDOM) DAYS	
105		PULSEDAY2	
106	9999999.9	*****GROUNDWATER/LOWER SYSTEM PROGRAM PROJECTS*****	blank
106			
107	0.0	FLAG TELLS WHETHER GW MANAGEMENT PROJECT IS ON	FLAG
107		GWMPROJ	
108	0.0	GW MGMT PROJ KAF TARGET (VOL TO STORE/PUMP EACH YEAR)	KAF
108		GWMKTARG	
109	0.0	FLAG TELLS WHETHER GW MANAGEMENT FOR NE FUTURE DEPL PROJECT IS ON	FLAG
109		NE_GWMPROJ	
110	0.0	NE FUTURE DEPL GW MGMT PROJ KAF TARGET (VOL TO STORE/PUMP EACH YEAR)	KAF
110		NE_GWMKTARG	
111	0.0	FLAG TO OPERATE N. DRY CREEK GW PUMPING PROJECT	FLAG
111		NDRYCKFLG	
112	0.0	FLAG TO OPERATE RIVERSIDE DRAINS	FLAG
112		RIVRDFLAG	
113	0.0	FLAG TO STORE WATER CONSERVATION AND GW MANAGEMENT IN EA	FLAG
113		CONSEASTOR	
114	9999999.9	*****CENTRAL PLATTE REREGULATING RESERVOIR*****	blank
114			
115	0.0	CP REREG RESERVOIR IS BEING OPERATED FLAG	FLAG
115		CPRRCK	
116	0.0	CP REREG RES STARTING CONTENT	KAF
116		CPRREOMLST	
117	0.0	CP REREG RES CAPACITY	KAF
117		CPRRCAP	
118	0.0	CP REREG RES INLET RATE	CFS
118		CPRRCFSIN	
119	0.0	CP REREG RES DEAD POOL	KAF
119		CPRRDEAD	
120	0.0	CP REREG RES AREA/CAPACITY CURVE MULT.	REAL
120		CPRRMULT	
121	0.0	CP REREG RES AREA/CAPACITY CURVE EXP.	REAL
121		CPRREXP	
122	0.0	CP REREG RES SEEPAGE FACTOR (DECIMAL PERCENT)	REAL
122		CPRRSPFAC	
123	0.0	CP REREG RES OUTLET RATE	CFS
123		CPRRCFSOUT	
124	0.0	FLAG TO USE CP REREG RES TO AUGMENT PULSE FLOWS	FLAG
124		CPRRPULSE	
125	0.000	CAPACITY OF CP REREG RES FOR PULSING PURPOSES	KAF
125		CPRRPLSCAP	
126	0.0	NOT USED	blank
126			
127	9999999.9	*****JOHNSON LAKE FLOW ATTENUATION OF PEAK FLOWS*****	blank
127			
128	0.0	FLAG TO ATTENUATE SPIKE FLOWS WITH JOHNSON RESERVOIR	FLAG
128		JLSPIKEFLAG	
129	17000.0	MAXIMUM DESIRED FLOW AT OVERTON	CFS
129		OVERPEAK	
130	0.0	STORAGE AVAILBLE IN JOHNSON LAKE TO ATTENUATE SPIKE FLOWS	AF
130		JLSPIKECAP	
131	0.0	FLAG TO USE JOHNSON RESERVOIR TO AUGMENT PULSE FLOWS	FLAG
131		JLPULSE	
132	0000.0	STORAGE AVAILBLE IN JOHNSON LAKE TO PULSE	AF
132		JLPULSECAP	
133	0000.0	MAXIMUM CFS THAT PULSE CAN BE AUGMENTED	FLAG
133		JLOUTCAP	
134	0.0	NUMBER OF DAYS TO PULSE OUT OF JOHNSON LAKE	DAYS
134		JLPLSDAYS	
135	0.0	NOT USED	blank
135			
136	0.0	NOT USED	blank
136			
137	9999999.9	*****INCREASE CP REREG RESERVOIR FOR NE FUTURE DEPLETIONS*****	blank
137			
138	0.0	NE FUTURE DEPL CP REREG RESERVOIR IS BEING OPERATED FLAG	FLAG

138	NE_CPRRCK	
139 0.0	NE FUTURE DEPL CP REREG RES STARTING CONTENT	KAF
139	NE_CPRREOMLST	
140 0.0	NE FUTURE DEPL CP REREG RES CAPACITY	KAF
140	NE_CPRRCAP	
141 0.0	NE FUTURE DEPL CP REREG RES INLET RATE	CFS
141	NE_CPRRCFSIN	
142 0.0	NE FUTURE DEPL CP REREG RES DEAD POOL	KAF
142	NE_CPRRDEAD	
143 0.0	NE FUTURE DEPL CP REREG RES AREA/CAPACITY CURVE MULT.	REAL
143	NE_CPRRMULT	
144 0.0	NE FUTURE DEPL CP REREG RES AREA/CAPACITY CURVE EXP.	REAL
144	NE_CPRREXP	
145 0.0	NE FUTURE DEPL CP REREG RES SEEPAGE FACTOR (DECIMAL PERCENT)	REAL
145	NE_CPRRSFFAC	
146 0.0	NE FUTURE DEPL CP REREG RES OUTLET RATE	CFS
146	NE_CPRRCFSOUT	
147 0.0	NE FUTURE DEPL FLAG TO USE CP REREG RES TO AUGMENT PULSE FLOWS	FLAG
147	NE_CPRRPULSE	
148 0.0	NE FUTURE DEPL CAPACITY OF CP REREG RES FOR PULSING PURPOSES	KAF
148	NE_CPRRPLSCAP	
149 0.0	FLAG TO ADD NE FUTURE DEPLETIONS FLOW BACK TO THE RIVER	FLAG
149	NE_CPRRADDFLOW	
150 0.0	NOT USED	blank
150		

ADATA ITEMS

1

LAKE MCCONAUGHY - MAXIMUM END-OF-MONTH CONTENT (KAF)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1594.11594.11594.11609.11743.11743.11743.11668.61594.11594.11594.11594.1											

2

NET LAKE EVAPORATION (FT/MO)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
.058	.078	.119	.168	.182	.237	.426	.408	.254	.195	.106	.050

3

HOWELL-BUNGER STUFF (KAF?) JULY-SEP COMPUTED IN PROGRAM EACH YEAR

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.35	0.00	0.00	0.11	2.50	9.70	9999.9999.9999.9999.10.8	2.35	0.01			

4

FLOW AT FLOOD STAGE IN THE NORTH PLATTE AT NORTH PLATTE, NE (CFS)

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1980.1980.1980.1980.1980.1980.1980.1980.1980.1980.1980.1980.											

5

UNUSED ADATA ITEM

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

6

UNUSED ADATA ITEM

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

7

INCREASED MAC CONTENT LIMITS

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

8

UNUSED ADATA ITEM

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

9

DAYS PER MONTH

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
31.	28.	31.	30.	31.	30.	31.	31.	30.	31.	30.	31.

10

UNUSED ADATA ITEM

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

11

KEYSTONE MINIMUM BY-PASS REQUIREMENT, CFS

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

12

UNUSED ADATA ITEM

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

13

MAXIMUM KEYSTONE DIVERSION, CFS

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

14	2100.	2100.	2100.	2100.	2100.	2100.	2100.	2100.	2100.	2100.	2100.	2100.
	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
15	SUTHERLAND CANAL MINIMUM DIVERSION REQUIREMENT, CFS											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
16	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
17	KORTY CANAL AVE. MONTHLY CAPACITY, CFS											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	1100.	1100.	1100.	1100.	1100.	1100.	1100.	1100.	1100.	1100.	1100.	1100.
18	SUTHERLAND CANAL CAPACITY, 2000 CFS EXCEPT OCT & APR which are 1800 to reflect maint.)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	2000.	2000.	2000.	1800.	2000.	2000.	2000.	2000.	2000.	1800.	2000.	2000.
19	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	SUTHERLAND SYSTEM LOSS (KAF/MO)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
11.	184	7.509	9.639	9.060	14.337	16.836	-5.436	-6.104	6.449	13.102	12.037	11.218
21	SUTHERLAND CANAL LOSS FUNCTION SLOPE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	.01552	.05502	.05129	.05349	.00109	.05040	.25248	.21665	.08707	.01181	.00632	.02544
22	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
23	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
24	CENTRAL DISTRICT CANAL CAPACITY, CFS											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	2250.	2250.	2250.	2250.	2250.	2250.	2250.	2250.	2250.	2250.	2250.	2250.
25	UPPER CENTRAL CANAL AVERAGE LOSS (KAF) (1971-1991)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	7.595	6.515	6.430	6.240	6.780	7.075	8.730	8.155	5.460	5.570	5.400	7.190
26	CENTRAL DISTRICT MIDDLE CANAL CONSTANT LOSS TERM (KAF/MO)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	3.858	3.517	7.740	10.097	9.676	13.136	7.764	16.622	13.618	10.168	9.323	7.548
27	CENTRAL CANAL LOSS FUNCTION SLOPE											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	.11399	.11256	.06417	.04318	.06225	.05034	.15987	.09098	.07705	.07811	.06785	.07805
28	JEFFREY RETURN CAPACITY, CFS											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	600.	600.	600.	600.	600.	600.	600.	600.	600.	600.	600.	600.
29	LOWER CENTRAL CANAL AVERAGE LOSS (KAF) 1971-1991											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.41	0.675	1.100	1.295	1.205	1.365	1.370	1.270	1.520	1.115	0.445	0.335
30	UNUSED ADATA ITEM											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
31	ELWOOD RESERVOIR LOSS (KAF/MO)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.9	0.8	1.4	3.7	4.1	4.6	1.9	1.5	1.1	1.3	1.2	1.1
32												

33
UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

34
CD N.P. DIVERSION MINIMUM BY-PASS REQUIREMENT, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

35
EA KAF to reserve (Min EA content), KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

36
PERCENT OF EA AVAILABLE IN JAN, FEB, MAR...DEC (0.0 TO 1.0) (ANY EA 'BORROW' MONTH SHOULD BE
1.0)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

37
MINIMUM EA RELEASE ALLOWED (I.E. NO EA RELEASES LESS THAN THIS), CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

38
FLAG TO MEET MINIMUM FLOW REQUIREMENT AT OVERTON 1=YES 0=NO
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

39
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 1 (GREATEST), KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

40
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 2 (LEVEL 2 <= LEVEL 1, ETC.), KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

41
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 3, KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

42
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 4
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

43
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 5, KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

44
EA STORAGE THRESHOLD FOR INSTREAM FLOW RELEASES, LEVEL 6 (LEAST), KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

45
NET CONTROLLABLE CONSERVED WATER ADDED TO EA, KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

46
POTENTIAL EA WATER ADDED VIA N. DRY CREEK GROUNDWATER PUMPING PROJECT, KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

47
WATER ADDED VIA RIVERSIDE DRAINS (COZAD TO OVERTON REACH), KAF
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

48
ALLOW EA TO BORROW FROM MAC IN MAY-JUL, PAY BACK BEFORE OCT WITH WY EA DELIVERIES, (1=YES 0=NO)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

49
UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

50
UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

51
SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 1, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1000. 2575. 2575. 2400. 2400. 2600. 800. 800. 300. 1300. 1150. 1000.

52 SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 2, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1000. 2575. 2575. 2400. 2000. 1700. 500. 500. 300. 1300. 1150. 1000.

53 SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 3, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
600. 1725. 1725. 1700. 1100. 800. 500. 500. 300. 1300. 950. 600.

54 SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 4, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

55 SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 5, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

56 SUGGESTED MONTHLY FLOW REQUIREMENT LEVEL 6, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

57 UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

58 FLAG TO MEET MINIMUM FLOW REQUIREMENT AT GRAND ISLAND 1=YES 0=NO
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

59 USFWS 10J RECOMMENDED FLOWS IN CRITICAL HABITAT REACH (KAF) GRAND ISLAND
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
61.5 143.0 167.5 142.8 150.0 158.7 73.8 73.8 65.5 110.7 83.3 61.5

60 FWS INSTREAM FLOW TARGET FOR WET CONDITION W/PULSE (KAF/MO)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
61.5 143.0 167.5 142.8 170.8 158.7 73.8 73.8 65.5 147.6 101.2 61.5

61 FWS INSTREAM FLOW TARGET FOR AVE CONDITION W/PULSE (KAF/MO)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
61.5 143.0 167.5 142.8 150.0 158.7 73.8 73.8 65.5 110.7 83.3 61.5

62 FWS INSTREAM FLOW TARGET FOR DRY CONDITION W/PULSE (KAF/MO)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
36.9 95.8 114.0 101.2 67.0 47.6 49.2 49.2 41.7 79.9 56.5 36.9

63 PRESENT CONDITION INSTREAM FLOW SHORTAGE (KAF/MO) (USES WET/AVG/DRY %)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.6 20.7 24.7 37.3 43.9 40.5 15.8 32.1 26.0 37.9 5.1 0.0 284.6 Total
average

64 PRESENT CONDITION INSTREAM FLOW EXCESS (KAF/MO) (USES WET/AVG/DRY %)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
47.7 19.7 20.2 24.6 42.9 80.5 41.7 2.3 11.4 11.9 17.2 39.3 359.4 Total
average

65 KEARNEY CANAL DIVERSION CAPACITY, CFS (MAR & NOV DIVERT 1/2 THE MONTH)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 112.5 325. 325. 325. 325. 325. 325. 325. 112.5 0.0

66 UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

67 KEARNEY CANAL SYSTEM LOSS (KAF/MO)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0.0 0.0 0.6 1.5 0.8 0.9 0.1 0.1 0.2 1.6 0.8 0.0

68 UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

69 UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

70 UNUSED ADATA ITEM
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

[illegible]

90
MCCONAUGHY RELEASE PATTERN, VERY HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
696. 654. 415. 2000. 2000. 2000. 2000. 900. 900. 900. 844. 768.

91
MCCONAUGHY RELEASE PATTERN, HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
696. 654. 415. 900. 900. 900. 900. 900. 900. 900. 844. 768.

92
MCCONAUGHY RELEASE PATTERN, NORMAL CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
467. 479. 281. 605. 700. 700. 700. 700. 700. 700. 700. 585.

93
MCCONAUGHY RELEASE PATTERN, LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
467. 479. 281. 605. 700. 700. 700. 700. 700. 700. 700. 585.

94
MCCONAUGHY RELEASE PATTERN, VERY LOW CONDITIONS, CFS (also set if Jules > flood flow)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
408. 274. 265. 407. 491. 400. 400. 400. 400. 368. 380. 387.

95
MCCONAUGHY RELEASE PATTERN, EXTREMELY LOW CONDITIONS, CFS (also set if Jules > flood flow)
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
200. 200. 200. 200. 200. 200. 200. 200. 200. 200. 200. 200.

96
KEYSTONE DIVERSION PATTERN, VERY HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
250. 250. 250. 1000. 1000. 1000. 250. 250. 250. 250. 250. 250.

97
KEYSTONE DIVERSION PATTERN, HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250.

98
KEYSTONE DIVERSION PATTERN, NORMAL CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250.

99
KEYSTONE DIVERSION PATTERN, LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250.

100
KEYSTONE DIVERSION PATTERN, VERY LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250. 250.

101
KEYSTONE DIVERSION PATTERN, EXTREMELY LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
200. 200. 200. 200. 200. 200. 200. 200. 200. 200. 200. 200.

102
TRI-COUNTY DIVERSION PATTERN, VERY HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1800. 2200. 2200. 2200. 2200. 2200. 2200. 2200. 2200. 1800. 1800. 1800.

103
TRI-COUNTY DIVERSION PATTERN, HIGH CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1250. 1250. 1250. 1200. 2000. 2000. 2000. 2000. 2000. 1250. 1250. 1250.

104
TRI-COUNTY DIVERSION PATTERN, NORMAL CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1150. 1250. 1250. 1100. 1600. 1600. 1600. 1600. 1600. 1150. 1150. 1150.

105
TRI-COUNTY DIVERSION PATTERN, LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1000. 1000. 1100. 900. 1100. 900. 900. 900. 1000. 1000. 1000. 1000.

106
TRI-COUNTY DIVERSION PATTERN, VERY LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
700. 700. 700. 700. 700. 700. 700. 700. 700. 700. 700. 700.

107
TRI-COUNTY DIVERSION PATTERN, EXTREMELY LOW CONDITIONS, CFS
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
300. 300. 300. 300. 300. 300. 300. 300. 300. 300. 300. 300.

108
CP REREG RESERVOIR ALLOWED TO STORE (USES AVERAGE TARGETS) 1=YES/0=NO
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

109

GROUNDWATER MANAGEMENT SEEPAGE CAPACITY, KAF (APPROXIMATELY 85 CFS)											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
110											
UNUSED ADATA ITEM											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GROUP HEADER								GRP	LNS	GRP_LN	LINE HEADER
SUMLINE (0=SUM, 1=AVG)											
LAKE MC CONAUGHY								1	13	1	1 NORTH PLATTE R. AT
LEWELLEN 0 CALC. 0=SUM, 1=AVG OF ANN. FLOW VALUES										2	2 RESERVOIR
EVAPORATION 0										3	3 RES SEEPAGE AND
BANKSTORAGE 0										4	4 RES DEMAND (INCL.
EA PULSE) 0										5	5 TURBINE RELEASE
(W/O PULSE) 0										6	6 TURBINE RELEASE (EA
PULSE) 0										7	7 HOWELL BUNGER
RELEASE 0										8	8 RESERVOIR SPILL,
TURBINE 0										9	9 RESERVOIR SPILL,
M.GLORY 0										10	10 TOTAL RESERVOIR
SPILL 0										11	11 END-OF-MONTH
CONTENT 1										12	12 TOT RES OUTFLOW
(W/O PULSE) 0										13	13 SUTHERLAND CANAL
DIVERSION 0											
N. PLATTE R. - KEYSTONE TO SUTHERLAND								2	8	1	14 NORTH PLATTE R. NR
KEYSTONE 0										2	16 IRRIGATION DEMAND
0										3	17 IRRIGATION
DIVERSION 0										4	18 IRRIGATION SHORTAGE
0										5	19 SECTION GAIN
0										6	20 RIVER CHANNEL E.T.
SALVAGE 0										7	21 CHANNEL G.W. STOR.
CHANGE 0										8	22 N. PLATTE NEAR
SUTHERLAND 0											
N. PLATTE R. - SUTHERLAND TO NORTH PLATTE								3	8	1	23 BIRDWOOD CREEK NR
HERSHEY 0										2	24 IRRIGATION DEMAND
0										3	25 IRRIGATION
DIVERSION 0										4	26 IRRIGATION SHORTAGE
0										5	27 SECTION GAIN
0										6	28 RIVER CHANNEL E.T.
SALVAGE 0										7	29 CHANNEL G.W.
STORAGE CHANGE 0										8	30 NO. PLATTE R. AT
NO. PLATTE 0											
SOUTH PLATTE R. - JULESBURG TO PAXTON								4	10	1	31 SO. PLATTE R. AT
JULESBURG 0										2	32 TAMARACK WATER AT
JULESBURG 0										3	33 WESTERN CANAL
DEMAND 0										4	34 WESTERN CANAL
DIVERSION 0										5	35 WESTERN CANAL
SHORTAGE 0											

0	0=SUM, 1=AVG	6	36	SECTION GAIN
SALVAGE 0	0=SUM, 1=AVG	7	37	RIVER CHANNEL E.T.
STORAGE CHANGE 0	0=SUM, 1=AVG	8	38	CHANNEL G.W.
DIVERSION 0	0=SUM, 1=AVG	9	39	KORTY CANAL
PAXTON 0	0=SUM, 1=AVG	10	40	SO. PLATTE AT
SOUTH PLATTE R. - PAXTON TO NORTH PLATTE	0=SUM, 1=AVG	5	4	1
0	0=SUM, 1=AVG	2	41	SECTION GAIN
SALVAGE 0	0=SUM, 1=AVG	3	42	RIVER CHANNEL E.T.
STORAGE CHANGE 0	0=SUM, 1=AVG	4	43	CHANNEL G.W.
NO. PLATTE 0	0=SUM, 1=AVG	6	5	1
SUTHERLAND SYSTEM (NPPD)	0=SUM, 1=AVG	2	44	SO. PLATTE R. AT
DIVERSION 0	0=SUM, 1=AVG	3	45	SUTHERLAND CANAL
DIVERSION 0	0=SUM, 1=AVG	4	46	KORTY CANAL
LOSS 0	0=SUM, 1=AVG	3	47	SUTHERLAND SYSTEM
STORAGE CHNG 0	0=SUM, 1=AVG	4	48	SUTHERLAND SYS
RETURN 0	0=SUM, 1=AVG	5	49	NORTH PLATTE HYDRO
PLATTE RIVER AT NORTH PLATTE	0=SUM, 1=AVG	7	1	1
PLATTE 0	0=SUM, 1=AVG	8	10	1
CENTRAL DISTRICT SYSTEM (CNPPID)	0=SUM, 1=AVG	2	50	TOTAL FLOW AT N & S
DIVERSION 0	0=SUM, 1=AVG	3	51	CENTRAL DIST.
RETURN 0	0=SUM, 1=AVG	4	52	JEFFREY HYDRO
SYSTEM LOSS 0	0=SUM, 1=AVG	5	52	CENTRAL DIST.
STORAGE CHNG 0	0=SUM, 1=AVG	6	52	CENTRAL DIST.
RETURN 0	0=SUM, 1=AVG	7	52	JOHNSON HYDRO
LOSS 0	0=SUM, 1=AVG	8	52	ELWOOD RESERVOIR
CHANGE 0	0=SUM, 1=AVG	9	52	ELWOOD STORAGE
DEMAND 0	0=SUM, 1=AVG	10	52	CENTRAL DIST. IRR.
DELIVERY 0	0=SUM, 1=AVG	9	52	CENTRAL DIST. IRR.
SHORTAGE 0	0=SUM, 1=AVG	10	60	CENTRAL DIST. IRR.
PLATTE RIVER - NORTH PLATTE TO BRADY	0=SUM, 1=AVG	9	5	1
CENT.DIST.DIV. 0	0=SUM, 1=AVG	2	61	FLOW PASSING
0	0=SUM, 1=AVG	3	62	SECTION GAIN
SALVAGE 0	0=SUM, 1=AVG	4	63	RIVER CHANNEL E.T.
STORAGE CHANGE 0	0=SUM, 1=AVG	5	64	CHANNEL G.W.
0	0=SUM, 1=AVG	10	8	1
PLATTE RIVER - BRADY TO COZAD	0=SUM, 1=AVG	2	65	PLATTE R. NR BRADY
RETURN 0	0=SUM, 1=AVG	3	66	JEFFREY HYDRO
0	0=SUM, 1=AVG	4	67	IRRIGATION DEMAND
DIVERSION 0	0=SUM, 1=AVG	5	68	IRRIGATION
0	0=SUM, 1=AVG	6	69	IRRIGATION SHORTAGE
0	0=SUM, 1=AVG	7	70	SECTION GAIN
SALVAGE 0	0=SUM, 1=AVG	8	71	RIVER CHANNEL E.T.
STORAGE CHANGE 0	0=SUM, 1=AVG	9	72	CHANNEL G.W.
COZAD 0	0=SUM, 1=AVG	11	5	1
PLATTE RIVER - COZAD TO OVERTON	0=SUM, 1=AVG	74		SECTION GAIN

0	0=SUM, 1=AVG						
SALVAGE 0	0=SUM, 1=AVG			2		75	RIVER CHANNEL E.T.
STORAGE CHANGE 0	0=SUM, 1=AVG			3		76	CHANNEL G.W.
RETURN 0	0=SUM, 1=AVG			4		77	JOHNSON HYDRO
OVERTON 0	0=SUM, 1=AVG			5		78	PLATTE RIVER AT
PLATTE RIVER - OVERTON TO ODESSA		12	8	1		79	KEARNEY CANAL
DIVERSION 0	0=SUM, 1=AVG			2		80	KEARNEY CANAL LOSS
0	0=SUM, 1=AVG			3		81	KEARNEY CANAL IRR.
DELIVERY 0	0=SUM, 1=AVG			4		82	KEARNEY CANAL IRR.
SHORTAGE 0	0=SUM, 1=AVG			5		83	SECTION GAIN
0	0=SUM, 1=AVG			6		84	RIVER CHANNEL E.T.
SALVAGE 0	0=SUM, 1=AVG			7		86	CHANNEL G.W.
STORAGE CHANGE 0	0=SUM, 1=AVG			8		87	PLATTE RIVER NEAR
ODESSA 0	0=SUM, 1=AVG						
PLATTE RIVER - ODESSA TO GRAND ISLAND		13	5	1		88	KEARNEY CANAL HYDRO
RETURN 0	0=SUM, 1=AVG			2		89	SECTION GAIN
0	0=SUM, 1=AVG			3		90	RIVER CHANNEL E.T.
SALVAGE 0	0=SUM, 1=AVG			4		91	CHANNEL G.W.
STORAGE CHANGE 0	0=SUM, 1=AVG			5		92	PLATTE R. AT GRAND
ISLAND 0	0=SUM, 1=AVG						
PLATTE RIVER - GRAND ISLAND TO DUNCAN		14	4	1		93	SECTION GAIN
0	0=SUM, 1=AVG			2		94	RIVER CHANNEL E.T.
SALVAGE 0	0=SUM, 1=AVG			3		95	CHANNEL G.W.
STORAGE CHANGE 0	0=SUM, 1=AVG			4		96	PLATTE RIVER AT
DUNCAN 0	0=SUM, 1=AVG						
EA OPERATION (MONTHLY & PULSE)		15	13	1		97	MAC EOMC
1	0=SUM, 1=AVG			2		98	MAC SPILL
0	0=SUM, 1=AVG			3		99	NE EA ACCRUAL
0	0=SUM, 1=AVG			4		100	PATH MOD WATER AT
LEWELLEN 0	0=SUM, 1=AVG			5		101	TAMARACK+CONS
EXCHANGED 0	0=SUM, 1=AVG			6		102	OTHER NE WATER
0	0=SUM, 1=AVG			7		103	OTHER WY WATER
0	0=SUM, 1=AVG			8		104	BLANK
0	0=SUM, 1=AVG			9		105	EA EVAP
0	0=SUM, 1=AVG			10		106	WILDLIFE DEMAND
(W/O PULSE) 0	0=SUM, 1=AVG			11		107	EA RELEASE, MONTHLY
0	0=SUM, 1=AVG			12		108	EA RELEASE, PULSE
0	0=SUM, 1=AVG			13		109	EA EOMC
1	0=SUM, 1=AVG						
CENTAL PLATTE REREGULATORY RESERVOIR		16	10	1		110	STORAGE ALLOWED?
1=Y, 0=N 0	0=SUM, 1=AVG			2		111	OVERTON EXCESS (AVG
IFR) 0	0=SUM, 1=AVG			3		112	ODESSA EXCESS (AVG
IFR) 0	0=SUM, 1=AVG			4		113	GRAND ISL. EXCESS
(AVG IFR) 0	0=SUM, 1=AVG						

0	0=SUM, 1=AVG	5	114	INFLOW TO STORAGE
0	0=SUM, 1=AVG	6	115	RELEASE
0	0=SUM, 1=AVG	7	116	EVAPORATION
0	0=SUM, 1=AVG	8	117	SEEPAGE
0	0=SUM, 1=AVG	9	118	SPILL
0	0=SUM, 1=AVG	10	119	END OF MONTH
CONTENT 1	0=SUM, 1=AVG			
OTHER EA PROJECTS		17	6	1
0	0=SUM, 1=AVG			120
0	0=SUM, 1=AVG			121
EA 0	0=SUM, 1=AVG			122
CONFLUENCE 0	0=SUM, 1=AVG			123
CANAL 0	0=SUM, 1=AVG			124
BRADY 0	0=SUM, 1=AVG			125
TABLE HEADERS				
TABLE 1. LAKE MCCONAUGHY END-OF-MONTH CONTENT (KAF)				
1				CALC. 0=SUM, 1=AVG, 2=MAX OF ANN.
FLOW VALUES				
TABLE 2. LAKE MCCONAUGHY END-OF-MONTH ELEVATION (FEET ABOVE MSL)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 3. LAKE MCCONAUGHY TOTAL OUTFLOW (INCLUDES PULSE FLOWS), KAF				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 4. KINGSLEY DAM SPILL THROUGH KINGSLEY HYDRO (KAF)				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 5. KINGSLEY DAM SPILL THROUGH KINGSLEY MORNING GLORY (KAF)				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 6. TOTAL KINGSLEY DAM SPILL (KAF)				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 7. TOTAL STORAGE DEMAND ON LAKE MCCONAUGHY (INCLUDES PULSE FLOWS), KAF				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 8. HYDRO RELEASE (FOR OPERATIONAL RULES RUNS ONLY) (KAF)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 9. HYDRO CONDITION (CONHYDR) 1=VERY HIGH, 2=HIGH, 3=NORMAL, 4=DRY, 5=VERY DRY				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 10. NE PLAN CONDITIONS (1=VERY WET, 2=WET, 3=TRANS, 4=DRY, 5=VERY DRY)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 11. SUTHERLAND LAKE END-OF-MONTH CONTENT (KAF)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 12. ELWOOD RESERVOIR END-OF-MONTH CONTENT (KAF)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 13. JOHNSON LAKE END-OF-MONTH CONTENT (KAF)				
1				0=SUM,
1=AVG, 2=MAX				
TABLE 14. TRI-COUNTY IRR. AND ELWOOD RES. WATER USED TO AUGMENT PULSE (KAF)				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 15. TRI-COUNTY DIVERSION REQUIREMENT (KAF)				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 16. FLOW PASSING CENTRAL DIST. DIVERSION DAM (PULSE FLOWS NOT INCLUDED), KAF				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 17. CENTRAL DIST. DIVERSION AT DIVERSION DAM (PULSE FLOWS NOT INCLUDED), KAF				
0				0=SUM,
1=AVG, 2=MAX				
TABLE 18. NPPD DIVERSION AT KEYSTONE DIVERSION DAM (PULSE FLOWS NOT INCLUDED), KAF				

0	0=SUM,
1=AVG, 2=MAX	
TABLE 19. NPPD DIVERSION AT KORTY DIVERSION DAM (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 20. COMBINED KORTY-KEYSTONE DIVERSION (PULSE FLOWS NOT INCLUDED), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 21. SUTHERLAND CANAL LOSS (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 22. CENTRAL CANAL LOSSES (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 23. SUTHERLAND HYDRO GENERATION (PULSE FLOWS NOT INCLUDED), MKWH	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 24. CENTRAL DISTRICT HYDRO GENERATION (PULSE FLOWS NOT INCLUDED), MKWH	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 25. KINGSLEY HYDRO GENERATION (INCLUDES PULSE RELEASE), MKWH	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 26. TOTAL HYDRO GENERATION (MKWH)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 27. AVAILABLE FLOW GRAND ISLAND BEFORE EA RELEASE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 28. AVAILABLE FLOW AT OVERTON BEFORE EA RELEASE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 29. OVERTON INSTREAM FLOW RECOMMENDATION (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 30. PULSING OUT OF JOHNSON LAKE AND THE J2 FOREBAY, KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 31. TOTAL WILDLIFE STORAGE DEMAND (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 32. STORAGE RELEASE FOR WILDLIFE FLOW DEMAND (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 33. INSTREAM FLOW SHORTAGE AT OVERTON (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 34. INSTREAM FLOW EXCESS AT OVERTON (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 35. INSTREAM FLOW SHORTAGE AT GRAND ISLAND (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 36. INSTREAM FLOW EXCESS AT GRAND ISLAND (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 37. NORTH PLATTE RIVER NEAR LEWELLEN, NE. (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 38. SOUTH PLATTE RIVER NEAR JULESBURG, CO. (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 39. NORTH PLATTE RIVER AT KEYSTONE, NE. (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 40. NORTH PLATTE RIVER AT SUTHERLAND, NE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 41. SOUTH PLATTE RIVER AT NORTH PLATTE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 42. NORTH PLATTE RIVER AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 43. SOUTH PLATTE RIVER AT PAXTON (KAF)	
0	0=SUM,
1=AVG, 2=MAX	

TABLE 44. NORTH PLATTE HYDRO RETURN (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 45. TOTAL PLATTE RIVER FLOW AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 46. JEFFREY HYDRO RETURN (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 47. JOHNSON 2 HYDRO RETURN (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 48. PLATTE RIVER FLOW NEAR BRADY (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 49. PLATTE RIVER FLOW NEAR COZAD (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 50. PLATTE RIVER FLOW NEAR ODESSA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 51. KEARNEY CANAL TOTAL DIVERSION (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 52. KEARNEY CANAL HYDRO RETURN FLOW (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 53. PLATTE RIVER NEAR OVERTON, NE. (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 54. PLATTE RIVER NEAR OVERTON, NE. (PULSE FLOWS NOT INCLUDED), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 55. PLATTE RIVER NEAR GRAND ISLAND, NE. (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 56. PLATTE RIVER NEAR GRAND ISLAND, NE. (PULSE FLOWS NOT INCLUDED), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 57. TOTAL IRRIGATION DIVERSION (NOT INCLUDING WESTERN CANAL) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 58. TOTAL IRRIGATION SHORTAGE (NOT INCLUDING WESTERN CANAL) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 59. END-OF-MONTH CONTENT OF ENVIRONMENTAL ACCOUNT (KAF)	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 60. MONTHLY RELEASE FROM STATE EA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 61. RELEASE FROM STATE EA (PULSE FLOWS NOT INCLUDED), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 62. NE CONSERVATION WATER FROM MAC STORAGE (IRRIG. REDUCTION, USBR CONSERVATION) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 63. SUM OF CONTRIBUTIONS TO LAKE MCCONAUGHY ENVIRONMENTAL ACCOUNT (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 64. LAKE MCCONAUGHY EA PERCENTAGE ACCRUAL OF LEWELLEN INFLOW (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 65. SUM OF NE (EA%, IRRIG & USBR CONS, POWER INT, N. DRY CK, GW MGMT) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 66. SUM OF WY CONTRIBUTIONS TO THE EA (PATH MOD, ETO) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 67. CO WATER EXCHANGED INTO LAKE MCCONAUGHY EA (INCLUDES LOSS) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 68. CO ENVIRONMENTAL WATER LOST FROM JULESBURG TO PAXTON (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 69. EA ADJUSTMENTS WHEN MCCONAUGHY FILLS (+ ARE GAINS, - ARE LOSSES) (KAF)	
0	0=SUM,

1=AVG, 2=MAX	
TABLE 70. LAKE MCCONAUGHY ENVIRONMENTAL ACCOUNT EVAPORATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 71. TOTAL IRRIGATION SAVINGS (WESTERN, KEY-N.PLATTE, CENTRAL, BRADY-COZAD, KEARNEY) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 72. CENTRAL PLATTE REREGULATION RESERVOIR END OF MONTH CONTENT (KAF)	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 73. CENTRAL PLATTE REREGULATION RESERVOIR INFLOW (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 74. CENTRAL PLATTE REREGULATION RESERVOIR OUTFLOW (INCLUDES PULSE FLOWS), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 75. CENTRAL PLATTE REREGULATION RESERVOIR EVAPORATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 76. CENTRAL PLATTE REREGULATION RESERVOIR SEEPAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 77. CENTRAL PLATTE REREGULATION RESERVOIR SPILL (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 78. EA PULSE RELEASE (DOES NOT INCLUDE MONTHLY RELEASE) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 79. TOTAL EA RELEASE, MONTHLY + PULSE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 80. PEAK DAILY FLOW AT OVERTON (INCLUDES PULSE FLOWS), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 81. EA PULSE RELEASE (DOES NOT INCLUDE MONTHLY RELEASE) (CFS)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 82. EA LOSS INCREMENT IN SUTHERLAND AND TRI-COUNTY SYSTEMS (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 83. COLORADO CONSERVATION WATER AT JULESBURG, CO (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 84. INSTREAM FLOW SHORTAGE AT ODESSA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 85. INSTREAM FLOW EXCESS AT ODESSA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 86. WATER FROM NORTH DRY CREEK GROUNDWATER PUMPING PROJECT (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 87. GW MANAGEMENT PROJECT STOREAGE OCT-APR (water year operation) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 88. GW MANAGEMENT PROJECT, CREDIT & REDUCED CENTRAL DEMAND, MAY-SEP (wat yr oper) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 89. SUM OF CO CONTRIBUTIONS TO THE EA (TAMARACK, CONSERVATION) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 90. POWER INTERFERENCE VOLUME CREDITED TO EA (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 91. PLATTE RIVER NEAR LOUISVILLE (INCLUDES PULSE FLOWS), CFS	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 92. AMOUNT NE EA BORROWED FROM MAC STORAGE USING WY EA AS PAYBACK (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 93. AMOUNT NE EA PAID BACK TO MAC STORAGE FOR OUTSTANDING LOAN (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 94. AMOUNT NE EA BORROWED FOR PULSE RELEASE IN MAY (PORTION OF TABLE 92) (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 95. EA AT GRAND ISLAND (PULSE FLOWS NOT INCLUDED), KAF	

0	0=SUM,
1=AVG, 2=MAX	
TABLE 96. EA AT ODESSA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 97. EA AT OVERTON (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 98. EA AT COZAD (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 99. EA AT BRADY (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 100. EA IN NORTH PLATTE AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 101. EA IN SOUTH PLATTE AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 102. NON-EA AT GRAND ISLAND (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 103. NON-EA AT ODESSA (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 104. NON-EA AT OVERTON (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 105. NON-EA AT COZAD (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 106. NON-EA AT BRADY (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 107. NON-EA IN NORTH PLATTE AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 108. NON-EA IN SOUTH PLATTE AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 109. WATER FROM RIVERSIDE DRAINS IN BRADY TO COZAD REACH (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 110. CO CONSERVATION WATER IN BRADY TO COZAD REACH (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 111. WESTERN CANAL IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 112. KEYSTONE-SUTHERLAND IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 113. SUTHERLAND-N.PLATTE IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 114. BRADY-COZAD IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 115. TRI-COUNTY IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 116. KEARNEY CANAL IRRIGATION DEMAND (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 117. WESTERN CANAL IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 118. KEYSTONE-SUTHERLAND IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 119. SUTHERLAND-N.PLATTE IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 120. BRADY-COZAD IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	

TABLE 121. TRI-COUNTY IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 122. KEARNEY CANAL IRRIGATION DIVERSION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 123. WESTERN CANAL IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 124. KEYSTONE-SUTHERLAND IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 125. SUTHERLAND-N.PLATTE IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 126. BRADY-COZAD IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 127. TRI-COUNTY IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 128. KEARNEY CANAL IRRIGATION SHORTAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 129. WESTERN CANAL IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 130. KEYSTONE-SUTHERLAND IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 131. SUTHERLAND-N.PLATTE IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 132. BRADY-COZAD IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 133. TRI-COUNTY IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 134. KEARNEY CANAL IRRIGATION CONSERVATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 135. PLATTE RIVER FLOW NEAR ODESSA (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 136. BELOW J2 RETURN (W/O COZ. - OVER. GAIN) (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 137. PLATTE RIVER FLOW NEAR COZAD (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 138. JOHNSON 2 HYDRO RETURN (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 139. NORTH PLATTE HYDRO RETURN (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 140. SOUTH PLATTE RIVER AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 141. NORTH PLATTE RIVER AT NORTH PLATTE (PULSE FLOWS NOT INCLUDED), CFS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 142. MAXIMUM FLOW AT OVERTON WITHOUT PULSE, CFS	
2	0=SUM,
1=AVG, 2=MAX	
TABLE 143. MAXIMUM FLOW AT OVERTON WITH PULSE (CFS)	
2	0=SUM,
1=AVG, 2=MAX	
TABLE 144. JOHNSON LAKE SPIKE REDUCTION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 145. NET CONTROLLABLE CONSERVED WATER (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 146. KINGSLEY HYDRO CAPACITY (MW)	
0	0=SUM,

1=AVG, 2=MAX	
TABLE 147. CENTRAL PLATTE CAPACITY (MW)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 148. SOUTH PLATTE RIVER AT KORTY	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 149. BIRDWOOD CREEK	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 150. SUTHERLAND SYSTEM LOSSES	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 151. TRI-COUNTY SYSTEMS LOSSES	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 152. PLATTE RIVER AT DUNCAN (PULSE FLOWS NOT INCLUDED), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 153. EA LIMITED BY NP CHANNEL CAPACITY	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 154. MAX FLOW N. PLATTE AT N. PLATTE WITH PULSE (CFS)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 155. CP REREG RES SPIKE REDUCTION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 156. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR END OF MONTH CONTENT (KAF)	
1	0=SUM,
1=AVG, 2=MAX	
TABLE 157. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR INFLOW (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 158. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR OUTFLOW (INCLUDES PULSE FLOWS), KAF	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 159. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR EVAPORATION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 160. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR SEEPAGE (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 161. NE DEPLETIONS CENTRAL PLATTE REREGULATION RESERVOIR SPILL (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 162. NE DEPLETIONS CP REREG RES SPIKE REDUCTION (KAF)	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 163. NE POWER INTERFERENCE USED TO OFFSET FUTURE DEPLETIONS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 164. NE GW MANAGEMENT USED TO OFFSET FUTURE DEPLETIONS	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 165. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 166. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 167. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 168. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 169. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 170. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	
TABLE 171. UNUSED	
0	0=SUM,
1=AVG, 2=MAX	

TABLE 172. UNUSED
0
1=AVG, 2=MAX
TABLE 173. UNUSED
0
1=AVG, 2=MAX
TABLE 174. UNUSED
0
1=AVG, 2=MAX
TABLE 175. UNUSED
0
1=AVG, 2=MAX

0=SUM,

0=SUM,

0=SUM,

0=SUM,