AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994 INPUT FILE = POND2-6.DAT

RUN DATE (MON/DAY/YR) =03/11/2005 USER NO. = M_GOODWN.I01

CFS

PER

ACRE

PAGE =

TIME=

NOTATION

.00

TIME TO

(HOURS)

RUNOFF

(INCHES)

PEAK

		FROM	TO		PEAK	RUNOFF
	HYDROGRAPH	ID	ID	AREA	DISCHARGE	VOLUME
COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)
START						
*S						
*S	RIO BRAVO					
*S						
*S						
*S						
*S 100-YR,	24-HR STORM WITHOU	T SEDI	IMENT			
*S FILE NAM	ME: RB DMP.DAT					
*S BY: RICE	HARD STOCKTON					
> *S REVISED	BY MARK GOODWIN AN	D ASSC	CIATES	3-11-05. EXI	ST FLOW INTO I	PONDS 2-6
	VISION: 7-15-03					
*S*****	**********	****	*****	******	*******	*****
*S THE PURI	POSE OF THIS MODEL	IS TO	CALCUL	ATE THE RUNOE	F FROM FROM TH	Æ
*S SACATE I	BLANCO WATERSHED WE	ST OF	THE PO	WERLINE EASEM	ENT (AKA SOUTE	I
*S POWERLIN	ME DIVERSION AND DE	TENTIC	ON FACI	LITY);		
*S AND THE	RIO BRAVO WATERSHE	D.				
*S						
	ROM THIS WATERSHED					
	Y VIA THE HUBBLE LA	KE/AMC	DLE DIV	ERSION CHANNE	L.	
*S						
	INIAL RIO BRAVO MOD					
	NTY). ASSUMPTIONS				•	
	RRECTED WITH THE 4-					
	AMOLE CHANNEL REDU					BLANCO
	HE POWER LINE IS AD				INEL.	
	& 9 ARE DELETED AND	D PONI) 10 IS	ADDED.		
*S	2 4 E 6 0 C 10 EMBD	B 0785				
	,3,4,5,6,8 & 10 WER					
	THE BASINS WERE R					
	HE DENNIS CHAVEZ RO					
	RIO BRAVO CHANNEL TO DW (BASINS 210, 213					
	O INTO A STORMDRAIN		·			
	CHAVEZ AND TIE DIRE					
·	16. DENNIS CHAVEZ B					
	OUTED THROUGH POND		LUJ WIII.	n pe senti M	& 2 MIIU IUG	OOIN NALLE
	***********	_	*****	******	******	****
_	S ASSUMPTIONS:					
	*****	*****	****	*****	*******	****
-	LAND IN THE RIO BRAT					
	/AC BYCERM AMPERCO					

6 DU/AC, EXCEPT ANDERSON HILLS WHERE LOWER DENSITIES ARE CERTAIN, AND

EXCEPT IN BASINS 201 AND 202 WHERE THERE IS NO LIGHT.

*S 2. THE PUNCH HYD COMMAND WAS ADDED TO THE END OF THIS FILE SO THE OUTFALL HYDROGRAPH COULD BE USED IN THE AMOLE DEL NORTE EXISTING CONDITIONS MODEL *S AA100D1B.DAT, WHICH WILL BE USED IN THE ANALYSIS OF THE AMOLE ARROYO SYSTE *S *S 3. NO BULKING FACTORS WERE ADDED TO THE AREA TRIBUTARY TO THE RIO BRAVO CHANNEL DUE TO THE INCORPORATION OF DETENTION PONDS. HOWEVER, BULKING FACT *****\$ HAVE BEEN ADDED TO BASINS TRIBUTARY TO HUBBELL CHANNEL AND LAKE. *S *S RAINFALL FROM NOAA ATLAS 2 *S THESE VALUES WERE REDUCED FOR AREA BY 12%, 5% AND 3% FOR 1, 6, AND 24 HOUR RAINFALL TYPE= 2 *S *S********************************** *S ADD BASINS FROM SOUTH POWERLINE DIVERSION *S TO THE RIO BRAVO RUN *S *S**********************************

APPLY A 3% SEDIMENT BULKING FACTOR TO ALL COMPUTED HYDROGRAPHS

RAIN24 = 2.660

SEDIMENT BULK *S CALCULATE THE FLOW FROM SUB-BASINS A60106, A60107A, 60108 & 60109 *COMPUTE NM HYD		HYDROGRAPH	FROM ID	ID	AREA	PEAK DISCHARGE	RUNOFF VOLUME	RUNOFF	TIME TO PEAK	CFS PER	PAGE =	
**S CAUCHATE THE FLOW FROM SUB-BASINS A60106, A60107A, 60108 £ 60109 **COMPUTE NINTO INTOFOND2 - 1 2 1520 167.99 4.406 .38393 1.500 1.220 PER IMP= .00 **S ROUTE FLOW THROUGH POND 2 - 48° ONIFICE **ROUTE RESERVOIR POND2.0UT 1 2 .21520 81.86 4.406 .38393 1.650 .594 AC-FT= 1.634 **S ROUTE FLOW FROM SUB-BASINS A60110 6 A60111 **COMPUTE NN HID INTOFOND3 - 3 .14300 108.03 2.928 .38393 1.500 1.180 PER IMP= .00 **S ADD THE ROUTED FLOW FROM DOING 2 TO THE FLOW FROM INTOFOND3 **S AND THE ROUTED FLOW FROM NUB- 2 TO THE FLOW FROM INTOFOND3 **S ROUTE FLOW THROUGH FOND 3 - 48° ORIFICE **ROUTE FLOW THROUGH FOND 3 - 48° ORIFICE **ROUTE RESERVOIR ROND3.UT 4 5 .35820 78.28 7.334 .38392 1.500 .341 AC-FT= 2.839 **S CAUCHATE THE FLOW FROM SUB-BASINS A60113 & A60116N **COMPUTE NN HID INTOFOND4 - 6 .05800 42.30 1.188 .38393 1.500 1.139 PER IMP= .00 **S ADD THE ROUTED FLOW FROM FOND 3 TO THE FLOW FROM INTOFOND4 **S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM INTOFOND4 **S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM INTOFOND4 **S ROUTE RESERVOIR POND4.IN 54 6 7 .41620 96.23 8.522 .38392 1.600 .361 **S ROUTE FLOW THROUGH FOND 4 - 48° ORIFICE **ROUTE RESERVOIR THE FLOW FROM SUB-BASINS A60113. A60115. C.A60116S **SCANCILLARS THE FLOW FROM SUB-BASINS A60114. A60115. C.A60116S **SCANCILLARS THE FLOW FROM SUB-BASINS A60113. A60115	COMMAND	IDENTIFICATION	NO.	NO.	(SQ MI)	(CFS)	(AC-FT)	(INCHES)	(HOURS)	ACRE	NOTATI	ON
COMPUTE NM NYD INTOFOND2 - 1 .21520 167.99 4.406 .38393 1.500 1.220 PER IMP= .00 89 88 ROUTE PLOW THROUGH FOND 2 - 48° ORIFICE ROUTE PLOW THROUGH FOND 2 1 2 .21520 81.86 4.406 .38393 1.650 .594 AC-FT= 1.634 82 83 82 83 8393 1.650 1.180 PER IMP= .00 82 83 83 83 83 83 83 83 83 83 83 83 83 83	SEDIMENT BU	LK									PK BF =	1.03
*S ROUTE FLOW THROUGH POND 2 - 48" ORIFICE ROUTE RESERVOIR FOND2.OUT 1 2 .21520 81.86 4.406 .38393 1.650 .594 AC-FT= 1.634 *S CALCULATE THE FLOW FROM SUB-RASINS A60110 6 A60111 *COMPUTE NM HYD INTOPOND3 - 3 .14300 108.03 2.928 .38393 1.500 1.180 PER IMF= .00 *S ADD THE ROUTED FLOW FROM POND 2 TO THE FLOW FROM INTOPOND3 *S ADD THE ROUTED FLOW FROM POND 2 TO THE FLOW FROM INTOPOND3 *S HTD=POND3.IN IS THE TOTAL INFLOW INTO POND 3. ADD HYD POND3.IN 26 3 4 .35820 172.88 7.334 .38392 1.550 .754 *S *S ROUTE FLOW THROUGH POND 3 - 48" ORIFICE ROUTE RESERVOIR POND3.OUT 4 5 .35820 78.28 7.334 .38392 1.900 .341 AC-FT= 2.839 *S *S CALCULATE THE FLOW FROM SUB-RASINS A60113 6 A60116N *CONFUTE NM HYD INTOPOND4 - 6 .05800 42.30 1.188 .38393 1.500 1.139 PER IMP= .00 *S *S ADD THE ROUTED FLOW FROM POND 3 TO THE FLOW FROM INTOPOND4 *ADD HYD POND4.IN 56 6 7 .41620 96.23 8.522 .38392 1.600 .361 *S ROUTE FLOW THROUGH POND 4 - 48" ORIFICE ROUTE RESERVOIR POND4.OUT 7 8 .41620 77.16 8.522 .38392 2.100 .290 AC-FT= 1.268 *S CALCULATE THE FLOW FROM SUB-BASINS A60114, A60115, 6.A60116S *COMPUTE FLOW THROUGH POND 4 TO THE FLOW FROM INTOPOND5 *S CALCULATE THE FLOW FROM SUB-BASINS, A60114, A60115, 6.A60116S *COMPUTE NOTHING FLOW FROM FOND 4 TO THE FLOW FROM INTOPOND5 *S CALCULATE THE FLOW FROM SUB-BASINS, A60114, A60115, 6.A60116S *COMPUTE NOTHING FLOW FROM FOND 5 TO THE FLOW FROM INTOPOND5 *S ROUTE FLOW THROUGH POND 5 - TWO 42" ORIFICES *ROUTE RESERVOIR POND5.IN 86 9 10 .73320 285.67 15.013 .38392 1.500 .271 AC-FT= 3.719 *S ROUTE FLOW THROUGH POND 5 TO THE FLOW FROM INTOPOND5 *S ROUTE FREW HYDD INTOPOND5 TO THE FLOW FROM INTOPOND5 *S ROUTE FREW HYDD INTOPOND5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM THYOPOND5 *S ADD THE ROUTED FLOW FROM FOND 5 TO THE FLOW FROM T	*S CALCULAT	E THE FLOW FROM SU	B-BASI	NS A601	06, A60107A,	60108 & 60109						
*** ROUTE FLOW THROUGH POND 2 - 48" ORIFICE ROUTE RESERVOIR FOND2.OUT 1 2 2.1520 81.86 4.406 .38393 1.650 .594 AC-FT= 1.634 *** ***S CALCULATE THE FLOW FROM SUB-BASINS A60110 6 A60111 **COMPUTE NM HYD INTOPOND3 - 3 .14300 108.03 2.928 .38393 1.500 1.180 FER IMF= .00 **S CALCULATE THE FLOW FROM FOND 2 TO THE FLOW FROM INTOPOND3 **S HYD-POND3.IN IS THE TOTAL INFLOW INTO POND 3. **S HYD-POND3.IN IS THE TOTAL INFLOW INTO POND 3. **S ROUTE ROUTED FLOW FROM POND 3 - 48" ORIFICE ROUTE RESERVOIR FOND3.001 4 5 .35820 78.28 7.334 .38392 1.500 .341 AC-FT= 2.839 **S CALCULATE THE FLOW FROM SUB-BASINS A60113 & A60116N **S ROUTE RESERVOIR FOND3.001 4 5 .35820 78.28 7.334 .38392 1.500 .341 AC-FT= 2.839 **S CALCULATE THE FLOW FROM SUB-BASINS A60113 & A60116N **S ADD THE ROUTED FLOW FROM POND 3 TO THE FLOW FROM INTOPOND4 **ADD HTD FOND4 IN 56 6 7 .41620 96.23 8.522 .38392 1.600 .361 **S ROUTE FLOW THROUGH POND 4 - 48" ORIFICE ROUTE RESERVOIR POND 0.001 7 8 .41620 77.16 8.522 .38392 2.100 .290 AC-FT= 1.288 **S CALCULATE THE FLOW FROM SUB-BASINS A60114, A60115, 6.A60116S. **COMPOTE NW HYD INTOPONDS.** 9 9 - 31700FF* .259.40 s .64451.3 .38392 1.500 .270 AC-FT= 1.288 **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115, 6.A60116S. **COMPOTE NW HYD INTOPONDS.** 9 9 - 31700FF* .259.40 s .64451.3 .38392 1.500 .271 AC-FT= 3.719 **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115, 6.A60116S. **COMPOTE NW HYD INTOPONDS.** 9 9 - 31700FF* .259.40 s .64451.3 .38392 1.500 .271 AC-FT= 3.719 **S ROUTE RESERVOIR POND 5 - TWO 42" ORIFICES **ROUTE RESERVOIR FOND 5.0T 10 11 .73320 127.35 15.013 .38392 1.500 .7157 PER PMS .38301 1.500 .271 AC-FT= 3.719 **S ROUTE RESERVOIR FOND 5.0T 10 11 .73320 127.35 15.013 .38392 1.500 .7157 PER PMS .38301 1.500 .271 AC-FT= 3.719 **S ROUTE RESERVOIR FOND 5.0T 10 11 .73320 127.35 15.013 .38392 1.500 .271 AC-FT= 3.719 **S ROUTE RESERVOIR FOND 5.0T 10 11 .73320 127.35 15.013 .38392 1.500 .7157 PER PMS .38301 1.500 .271 AC-FT= 3.719 **S ROUTE RESERVOIR FOND 5.0T 10 11 .73320 127.35 15.013 .38392 1.500 .271 AC-FT= 3.	COMPUTE NM	HYD INTOPOND2	-	1	.21520	167.99	4.406	. 38393	1.500	1.220	PER IMP=	.00
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*S CALCULATE THE FLOW FROM SUB-BASINS A60110 & A60111 COMPUTE NM HYD	*S ROUTE FL	OW THROUGH POND 2	- 48"	ORIFICE								
**S CALCULATE THE FLOW FROM SUB-BASINS A60110 & A60111 **COMPUTE NM HYD INTOPOND3 - 3 .14300 108.03 2.928 .38393 1.500 1.180 PER IMP= .00 **S ADD THE ROUTED FLOW FROM FOND 2 TO THE FLOW FROM INTOPOND3 **S HYD-ROND3.IN IS THE TOTAL INFLOW INTO POND 3. *ADD HTD FOND3.IN 24 3 4 .35820 172.88 7.334 .38392 1.550 .754 **S ROUTE FLOW THROUGH POND 3 - 48" ORIFICE **ROUTE RESERVOIR FOND3.OUT 4 5 .35820 78.28 7.334 .38392 1.900 .341 AC-FT= 2.839 **S CALCULATE THE FLOW FROM SUB-BASINS A60113 6 A60116N **COMPUTE NM HYD INTOPOND4 - 6 .05800 42.30 1.188 .38393 1.500 1.139 PER IMF= .00 **S ADD THE ROUTED FLOW FROM FOND 3 TO THE FLOW FROM INTOPOND4 **ADD HYD FOND4.IN 54 6 7 .41620 96.23 8.522 .38392 1.600 .361 **S ROUTE FLOW THROUGH POND 4 - 48" ORIFICE **ROUTE RESERVOIR POND4.OUT 7 8 .41620 77.16 8.522 .38392 2.100 .290 AC-FT= 1.288 **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115.4 A60115.5 COMPUTE NM HYD INTOPOND5. **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115.4 A60115.5 COMPUTE NM HYD INTOPOND5. **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115.4 A60115.5 COMPUTE NM HYD INTOPOND5. **S CALCULATE THE FLOW FROM SUB-BASINS A60114 A60115.4 A60115.5 COMPUTE NM HYD INTOPOND5. **S ADD THE ROUTED FLOW THROUGH FOND 5 - TWO 42" ORIFICES **ROUTE RESERVOIR FOND5.UN 10 11 7.73320 285.87 15.013 .38392 1.500 .609 **S ADD THE ROUTED FLOW FROM POND 5 TO THE FLOW FROM INTOPOND5 **S ADD THE ROUTED FLOW FROM POND 5 TO THE FLOW FROM INTOPOND5 **S ADD THE ROUTED FLOW FROM POND 5 TO THE FLOW FROM INTOPOND5 **S ROUTE RESERVOIR FOND5.UN 10 11 7.73320 127.35 15.013 .38392 1.500 1.157 FER TMP= .000 **S ADD THE ROUTED FLOW FROM POND 5 TO THE FLOW FROM INTOPOND6 **S ADD THE ROUTED FLOW FROM POND 5 TO THE FLOW FROM INTOPOND6 **S ROUTE RESERVOIR FOND5.UN 11612 13 .83010 168.30 169.97 .383932 1.500 .213 AC-FT= 3.719 **S ROUTE FLOW THROUGH POND 6 - 54" ORIFICES **S ROUTE FLOW THROUGH POND 6 - 54" ORIFICES **S ROUTE FLOW THROUGH POND 6 - 54" ORIFICES **S ROUTE FLOW THROUGH POND 6 - 54" ORIFICES **S ROUTE FLOW THRO		VOIR POND2.OUT	1	2	.21520	81.86	4.406	. 38393	1.650	. 594	AC-FT=	1.634
COMPUTE NM HYD INTOPOND3 - 3 .14300 108.03 2.928 .38393 1.500 1.180 PER IMP= .00 \$ \$ ADD THE ROUTED FLOW FRON POND 2 TO THE FLOW FROM INTOPOND3 \$ \$ HYD=ROND3.IN 15 THE TOTAL INFLOW INTO POND 3 \$ \$ HYD=ROND3.IN 15 THE TOTAL INFLOW INTO POND 3 \$ \$ RYD=ROND3.IN 15 THE TOTAL INFLOW INTO POND 3 \$ \$ ROUTE FLOW THROUGH POND 3 - 48" ORIFICE ROUTE RESERVOIR POND3.OUT 4 5 .35820 78.28 7.334 .38392 1.500 .341 AC-FT= 2.839 \$ \$ CALCULARE THE FLOW FROM SUB-BASINS A60113 6 A60116N \$ \$ \$ S CALCULARE THE FLOW FROM SUB-BASINS A60113 6 A60116N \$ \$ \$ ADD THE ROUTED FLOW FROM POND 3 TO THE FLOW FROM INTOPOND4 \$ \$ \$ ADD THE ROUTED FLOW FROM POND 3 TO THE FLOW FROM INTOPOND4 \$ \$ ROUTE FLOW THROUGH POND 4 - 48" ORIFICE ROUTE RESERVOIR POND4.OUT 7 8 .41620 96.23 8.522 .38392 1.600 .361 \$ \$ \$ S ROUTE FLOW THROUGH POND 4 - 48" ORIFICE ROUTE RESERVOIR POND4.OUT 7 8 .41620 77.16 8.522 .38392 2.100 .290 AC-FT= 1.288 \$ \$ S ALCULARE THE FLOW FROM SUB-BASINS A60114, A60115, 6.A60116S, COMPOUTE MY HOD INTOPOND5 \$ 9 - 731700F5 259.40 \$ \$ \$ COMPOUTE FLOW FROM SUB-BASINS A60114, A60115, 6.A60116S, COMPOUTE MY HOD INTOPOND5 \$ 9 - 731700F5 259.40 \$ \$ \$ COMPOUTE FLOW FROM POND 4 TO THE FLOW FROM INTOPOND5 AS ROUTE FLOW THROUGH POND 5 - TWO 42" ORIFICES ROUTE RESERVOIR POND5.OUT 10 11 .73320 127.35 15.013 .38392 1.500 .271 AC-FT= 3.719 \$ \$ ROUTE FLOW THROUGH POND 5 - TWO 42" ORIFICES ROUTE RESERVOIR POND5.OUT 10 11 .73320 127.35 15.013 .38392 1.500 .271 AC-FT= 3.719 \$ \$ \$ S COMPOUTE, HYDROGRAPH, FOR BASINS.201 \$ \$ S COMPOUTE HYDROGRAPH, FOR BASINS.201 \$ \$ S S COMPOUTE HYDROGRAPH, FOR BASINS.201 \$ \$ S COMPOUTE HYDR	*S											
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