

TRAILS UNIT III DRAINAGE MASTER PLAN
HYDROLOGIC MODEL--FULLY DEVELOPED CONDITIONS

12 MAY 2014

***MODIFIED 8/2016 - RESPEC

1. TURNED ON SURGE POND FOR POND D.1, 11 CFS BYPASS
2. TURNED ON ADD COMMAND TO COMBINE ID 61 AND 68
3. CHANGED ROUTE MCUNGE INFLOW ID FROM 68 TO 67
4. TURNED OFF OLD RATING CURVE FOR POND.D1
5. CREATED NEW RATING CURVE FOR POND.D1
6. ROUTED HYD FROM POND.D1 TO POND.D
7. TURNED OFF ROUTE FROM RAINBOW TO POND.D
8. TURNED OFF PRINT COMMAND FOR ID 72
9. CHANGED I FROM 72 TO 71 FOR ID 73
10. ID 73 NEW INFLOW HYD TO POND.D
11. TREATMENT TYPE PERCENTAGES CHANGED FOR ID 28
12. TURNED OFF ADD COMMAND FOR ID 74
13. TREATMENT TYPE PERCENTAGES CHANGED FOR ID 25
14. TURNED OFF ADD, PRINT, AND PUNCH FOR ID 75
15. ADDED PUNCH COMMAND FOR ID 73
16. DIVIDE HYD ID CHANGED FROM 75 TO 73
17. TURNED OFF ROUTE RESERVOIR FOR POND.F5
18. TURNED OFF PRINT HYD FOR ID 51
19. ADDED BASIN.F8 TO BASINS F5 AND F7
20. ADDED BASIN.D5 TO BASINS F5,F7,F8
21. ADDED BASIN.D6 TO BASINS F5,F7,F8,D5
22. TURNED OFF ADD/PRINT FOR ID 78
23. ADDED NEW ROUTE RESERVOIR FOR POND.F5
24. CHANGED ID 78 TO 79 FOR BASINS F1T08
25. CHANGED AREA OF BASIN.D5 TO EXCLUDE POND.D
26. CHANGED TREATMENT TYPE PERCENTAGES FOR BASIN.F8
27. TURNED OFF POND.D HYD TEXT
28. CHANGED POND.D1 FROM SURGE TO DETENTION
29. CHANGED AREA FOR BASIN.D4
30. DIVIDED BASIN D4 TO MODEL RUNOFF BYPASSING INLETS
31. ADDED HYD FOR POND.D BASIN
32. ADDED POND.D BASIN TO D4 SURGE HYD
33. CHANGED INFLOW FOR POND.D INFLOW HYD
34. TURNED OFF ALL COMMANDS FOR BASINS D5, D6, AND F8
35. COMPUTED HYD FOR TRACT 1 AS SINGLE SUBBASIN
36. ADDED TRACT.1 HYD TO INLET.BYPASS (POND.F5 INFLOW HYD)

HYDROLOGIC MODEL FOR OFFSITE AND ONSITE BASINS
100-YEAR, 24-HOUR STORM:

PRECIPITATION:

P60 = 1.84"

P360 = 2.20"

P1440 = 2.66"

START TIME=0.0 HR PUNCH CODE=0

RAINFALL TYPE=2 RAIN QUARTER=0.0 IN

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RAIN ONE=1.84 IN  RAIN SIX=2.20 IN
RAIN DAY=2.66 IN  DT=0.10  HRS
SEDIMENT BULK    CODE=1  FACTOR=1.0
*
*
*S*****
*S***** COMPUTE ONSITE BASINS FROM THE TRAILS
*S*****
*
COMPUTE NM HYD      ID=50  HYD NO=OFFSITE1  DA=.1998 SQ MI
                    %A=100  %B=0  %C=0  %D=0
                    TP=-.66 HR  RAIN=-1
PRINT HYD          ID=50  CODE=10
*
ROUTE RESERVOIR    ID=53  HYD=OFF.POND.1  INFLOW ID=50  CODE=5
OUTFLOW  STORAGE    DEPTH
0         0          0
3.85      0.037      1
5.44      0.218      2
6.66      0.610      3
7.69      1.150      4
8.60      1.759      5
9.42      2.439      6

PRINT HYD          ID=53  CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.0176
                    DIA=2.0  N=0.013
ROUTE MCUNGE       ID=54  HYD=RTE.OFF.POND INFLOW ID=53
                    DT=0.0  L=740 NS=0  SLOPE=0.0176
                    MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=54  CODE=0
*
COMPUTE NM HYD      ID=21  HYD NO=BASIN.A1  DA=.02422 SQ MI
                    %A=0  %B=12.5  %C=12.5  %D=75.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=21  CODE=10
*
COMPUTE NM HYD      ID=22  HYD NO=BASIN.A2  DA=.01331 SQ MI
                    %A=0  %B=33.0  %C=33.0  %D=34.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=22  CODE=10
*
*
COMPUTE NM HYD      ID=23  HYD NO=BASIN.A3  DA=.00502 SQ MI
                    %A=0  %B=5.0  %C=5.0  %D=90.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=23  CODE=10
*
*
COMPUTE NM HYD      ID=24  HYD NO=BASIN.A4  DA=.01186 SQ MI
                    %A=0  %B=7.5  %C=7.5  %D=85.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=24  CODE=10
*
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.A5  DA=.01830 SQ MI
                    %A=0  %B=17.0  %C=17.0  %D=66.0
                    TP=-.133 HR  RAIN=-1
PRINT HYD          ID=25  CODE=10

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*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.A6  DA=.02652 SQ MI
                     %A=0  %B=19.0  %C=19.0 %D=62.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=26  CODE=10
*
*
COMPUTE NM HYD      ID=27  HYD NO=BASIN.A7  DA=.01055 SQ MI
                     %A=0  %B=12.5  %C=12.5 %D=75.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=26  CODE=10
*
ADD HYD             ID=55  HYD=01.A2  ID I=54  II=22
PRINT HYD           ID=55  CODE=10
*
ADD HYD             ID=56  HYD=01A2.A1  ID I=55  II=21
PRINT HYD           ID=56  CODE=10
*
*
ADD HYD             ID=57  HYD=01A2A1.A3  ID I=56  II=23
PRINT HYD           ID=57  CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
                     DIA=4.0  N=0.013
ROUTE MCUNGE        ID=58  HYD=RTE.01A2A1.A3  INFLOW ID=57
                     DT=0.0  L=1000 NS=0  SLOPE=0.007
                     MATCODE=0  REGCODE=0  CCODE=0  MM CODE=0
*
PRINT HYD           ID=58  CODE=0
*
*
ADD HYD             ID=59  HYD=A1TOA5  ID I=58  II=25
PRINT HYD           ID=59  CODE=10
*
*
*****
*DIVIDE HYD          ID=59  Q=8.26  ID I=61  HYD NO=BYPASS.A5
                     ID II=62  HYD NO=SURGE.A5
*PRINT HYD          ID=61  CODE=10
*PRINT HYD          ID=62  CODE=10
*****
*
*
ROUTE RESERVOIR      ID=60  HYD=POND.A5  INFLOW ID=59  CODE=5
                     OUTFLOW  STORAGE  DEPTH
                     0.0      0.0      5511
                     2.13     0.35     5512
                     5.13     1.03     5513
                     8.82     1.94     5514
                     13.07    3.15     5515
                     17.82    4.61     5516
*
PRINT HYD           ID=60  CODE=10
*
*
*ADD HYD             ID=59  HYD=TOTALA5  ID I=61  II=60
*PRINT HYD           ID=59  CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.013

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DIA=2.0  N=0.013
ROUTE MCUNGE      ID=61 HYD=RTE.A4 INFLOW ID=24
                  DT=0.0  L=900 NS=0  SLOPE=0.013
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD         ID=61 CODE=0
*
*
ADD HYD           ID=62 HYD=RTE.A4.A6 ID I=61 II=26
PRINT HYD         ID=62 CODE=10
*
*
ADD HYD           ID=63 HYD=RTEA4A6.PONDA5 ID I=62 II=60
PRINT HYD         ID=63 CODE=10
*
*
*****
*DIVIDE HYD       ID=63 Q=8.26 ID I=61  HYD NO=BYPASS.A6
                  ID II=62 HYD NO=SURGE.A6
*PRINT HYD        ID=61 CODE=10
*PRINT HYD        ID=62 CODE=10
*****
*
*
ROUTE RESERVOIR   ID=64 HYD=POND.A6  INFLOW ID=63 CODE=5
                  OUTFLOW  STORAGE  DEPTH
                  0         0        5500
                  2.13     0.30     5501
                  5.13     0.85     5502
                  8.82     1.57     5503
                  13.07    2.47     5504
                  17.82    3.52     5505
                  23.04    4.72     5506
                  100.00   6.06     5507
*
PRINT HYD         ID=64 CODE=10
*
*
*ADD HYD          ID=66 HYD=TOTALA6 ID I=61 II=64
*PRINT HYD        ID=66 CODE=10
*
*
ADD HYD           ID=65 HYD=PONDA6.A7 ID I=64 II=27
PRINT HYD         ID=65 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.021
                  DIA=2.0  N=0.013
ROUTE MCUNGE      ID=66 HYD=RTE.A6.A7 INFLOW ID=65
                  DT=0.0  L=520 NS=0  SLOPE=0.021
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD         ID=66 CODE=0
*
*
COMPUTE NM HYD    ID=25  HYD NO=BASIN.D1  DA=.01816 SQ MI
                  %A=0  %B=19.0  %C=19.0 %D=62.0
                  TP=-.133 HR  RAIN=-1
PRINT HYD         ID=25 CODE=10
*
*
ADD HYD           ID=67 HYD=A6.A7.D1 ID I=66 II=25
PRINT HYD         ID=67 CODE=10
*

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*
*** DIVIDE HYD BELOW WAS TURNED OFF - 8/2016 MOD TURNS IT
*** BACK ON. ID CHANGES ARE MADE TO ROUTE SURGE HYDROGRAPH
*** THROUGH POND D.1 - RESPEC
*** TURNED OFF DIVIDE HYD - RESPEC
*****
*DIVIDE HYD ID=67 Q=11.07 ID I=61 HYD NO=BYPASS.AD1
* ID II=62 HYD NO=SURGE.D1
*PRINT HYD ID=61 CODE=10
*PRINT HYD ID=62 CODE=10
*****
*
*
*** TURNED OFF OLD RATING CURVE FOR POND.D1 - RESPEC
*ROUTE RESERVOIR ID=68 HYD=POND.D1 INFLOW ID=62 CODE=6.3
*
* OUTFLOW STORAGE DEPTH
* 0 0 5471
* 2.83 2.47 5472
* 6.84 3.52 5473
* 11.75 4.72 5474
* 17.42 6.06 5475
*
*** CREATED NEW POND.D1 RATING CURVE - RESPEC
*** TURNED OFF RATING CURVE - RESPEC
*ROUTE RESERVOIR ID=68 HYD=POND.D1 INFLOW ID=62 CODE 6.3
*
* OUTFLOW STORAGE DEPTH
* 0 0 5471
* 6.65 0.16 5472
* 16.07 0.23 5473
* 27.61 0.31 5474
* 40.93 0.39 5475
*
*** NEW RATING CURVE FOR DETENTION - RESPEC
ROUTE RESERVOIR ID=68 HYD=POND.D1 INFLOW ID=67 CODE 6.3
*
* OUTFLOW STORAGE DEPTH
* 0 0 5471
* 7.61 0.066 5472
* 24.06 0.149 5473
* 41.67 0.250 5474
* 53.79 0.370 5475
*
PRINT HYD ID=68 CODE=10
*
*
*** TURNED ON THE ADD/PRINT COMMAND BELOW - RESPEC
*** TURNED OFF ADD/PRINT - RESPEC
*ADD HYD ID=67 HYD=TOTALD1 ID I=61 II=68
*PRINT HYD ID=67 CODE=10
*
*
*** CHANGED INFLOW ID FROM 68 TO 67 - RESPEC
*** ROUTED TO POND.D - RESPEC
*** CHANGED INFLOW ID FROM 67 TO 68 - RESPEC
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.0153
DIA=3.5 N=0.013
ROUTE MCUNGE ID=69 HYD=RTE.D1 INFLOW ID=68
DT=0.0 L=2550 NS=0 SLOPE=0.0153
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
*** OLD ROUTING - RESPEC
*COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.018
* DIA=2.0 N=0.013
*ROUTE MCUNGE ID=69 HYD=RTE.D1 INFLOW ID=67

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*           DT=0.0  L=1470 NS=0  SLOPE=0.018
*           MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=69 CODE=0
*
*
*****HERITAGE UNIT 1*****
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.D2  DA=.03456 SQ MI
                   %A=0  %B=28.5  %C=28.5 %D=43.0
                   TP=-.133 HR  RAIN=-1
PRINT HYD           ID=25 CODE=10
*
ADD HYD             ID=70 HYD=PONDD1.D2 ID I=69 II=25
PRINT HYD           ID=70 CODE=10
*
*
*****UNIVERSE BLVD*****
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.D3  DA=.00580 SQ MI
                   %A=0  %B=5.0  %C=5.0 %D=90.0
                   TP=-.133 HR  RAIN=-1
PRINT HYD           ID=26 CODE=10
*
ADD HYD             ID=71 HYD=D1.D2.D3 ID I=70 II=26
PRINT HYD           ID=71 CODE=10
*
*
*** TUNRED OFF ROUTING - RESPEC
*COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.02
*                   DIA=4.0  N=0.013
*ROUTE MCUNGE       ID=72 HYD=RTE.D1 INFLOW ID=71
*                   DT=0.0  L=1150 NS=0  SLOPE=0.02
*                   MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
*** TURNED OFF PRINT COMMAND - RESPEC
*PRINT HYD          ID=72 CODE=0
*
*
*****HERITAGE UNIT 2*****
*
*** CHANGED DA FROM 0.01961 TO 0.01809 - RESPEC
COMPUTE NM HYD      ID=27  HYD NO=BASIN.D4  DA=.01809 SQ MI
                   %A=0  %B=28.5  %C=28.5 %D=43.0
                   TP=-.133 HR  RAIN=-1
PRINT HYD           ID=27 CODE=10
*
*
*** ADDED DIVIDE HYD - RESPEC
DIVIDE HYD          ID=27 Q=5.39 ID I=1  HYD NO=BYPASS.INLET
                   ID II=2  HYD NO=SURGE.INLET
PRINT HYD           ID=1 CODE=10
PRINT HYD           ID=2 CODE=10
*
*
*
*** ADDED HYD GENERATED BY BASIN.POND.D - RESPEC
COMPUTE NM HYD      ID=4  HYD NO=BASIN.POND.D DA=.00219 SQ MI
                   %A=0  %B=40  %C=40  %D=10
                   TP=-.133 HR  RAIN=-1
PRINT HYD           ID=4 CODE=10
*

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*
*** ADDED BASIN POND.D AND ID 6 - RESPEC
ADD HYD          ID=5  HYD=D4.POND.D  ID I=2  II=4
PRINT HYD        ID=5  CODE=10
*
*
*** CHANGED I FROM 72 TO 71 - RESPEC
*** CHANGED II FROM 27 TO 5 - RESPEC
*S***** NEW POND D INFLOW HYDROGRAPH
ADD HYD          ID=73  HYD=D1D2D3.D4  ID I=71  II=5
PRINT HYD        ID=73  CODE=10
*
*** NEW INFLOW HYD TO POND.D - RESPEC
*** ADDED PUNCH FOR ID 73 - RESPEC
PUNCH HYD        ID=73
*
*** CHANGED B AND C (23%) TO 20% AND D (54%) TO 60% - RESPEC
*** CHANGED DA FROM 0.01367 TO 0.01155 - RESPEC
*** TURNED OFF COMPUTE HYD AND PRINT FOR BASIN.D5 - RESPEC
*COMPUTE NM HYD   ID=28  HYD NO=BASIN.D5  DA=.01155 SQ MI
*                  %A=0   %B=20.0   %C=20.0 %D=60.0
*                  TP=-.133 HR  RAIN=-1
*PRINT HYD        ID=28  CODE=10
*
*** TURNED OFF ADD/PRINT COMMAND - RESPEC
*ADD HYD          ID=74  HYD=D1234.D5  ID I=73  II=28
*PRINT HYD        ID=74  CODE=10
*
*
*** CHANGED B AND C (18%) TO 20% AND D (64%) TO 60% - RESPEC
*** TURNED OFF COMPUTE HYD AND PRINT FOR BASIN.D6 - RESPEC
*COMPUTE NM HYD   ID=25  HYD NO=BASIN.D6  DA=.00781 SQ MI
*                  %A=0.0   %B=20.0   %C=20.0 %D=60.0
*                  TP=-.1333 HR  RAIN=-1
*PRINT HYD        ID=25  CODE=10
*
*** TURNED OFF ADD/PRINT COMMAND - RESPEC
*ADD HYD          ID=75  HYD=D12345.D6  ID I=74  II=25
*PRINT HYD        ID=75  CODE=10
*
* DELETED 'S' TO TURN OFF TEXT - RESPEC
***** POND D INFLOW HYDROGRAPH
*** TURNED OFF PUNCH HYD - RESPEC
*PUNCH HYD        ID=75
*
*****
*** CHANGED ID FROM 75 TO 73 - RESPEC
DIVIDE HYD        ID=73  Q=13.77  ID I=31  HYD NO=BYPASS.D
                  ID II=32  HYD NO=SURGE.D
PRINT HYD         ID=31  CODE=10
PRINT HYD         ID=32  CODE=10
*****
*
*
ROUTE RESERVOIR   ID=50  HYD=POND.D  INFLOW ID=32  CODE=6.3
                  OUTFLOW  STORAGE  DEPTH
                  0        0        5429.46
                  1.87     0.30     5431
                  2.97     1.01     5432
                  4.00     1.91     5433
                  4.98     2.91     5434
                  5.90     4.00     5435
                  6.79     5.17     5436

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7.51	6.24	5436.85
130.0	7.80	5438

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*
*
PRINT HYD          ID=50 CODE=10
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.0057
                      DIA=2.0  N=0.013
ROUTE MCUNGE        ID=51 HYD=RTE.D INFLOW ID=50
                      DT=0.0  L=1530 NS=0  SLOPE=0.0057
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=51 CODE=0
*
*
ADD HYD             ID=75 HYD=BYPASS.RTE.D ID I=51 II=31
PRINT HYD           ID=75 CODE=10
*
*
COMPUTE NM HYD      ID=20  HYD NO=BASIN.C  DA=.01278 SQ MI
%A=0  %B=25.0  %C=25.0 %D=50.0
TP=-.133 HR  RAIN=-1
PRINT HYD           ID=20 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.027
                      DIA=3.0  N=0.013
ROUTE MCUNGE        ID=76 HYD=RTE.C INFLOW ID=20
                      DT=0.0  L=1020 NS=0  SLOPE=0.027
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=76 CODE=0
*
*
*****SANTA FE UNIT 1*****
*
COMPUTE NM HYD      ID=20  HYD NO=BASIN.F1  DA=.02208 SQ MI
%A=0  %B=21.7  %C=21.8 %D=56.5
TP=-.133 HR  RAIN=-1
PRINT HYD           ID=20 CODE=10
*
ADD HYD             ID=77 HYD=C.F1 ID I=76 II=20
PRINT HYD           ID=77 CODE=10
*
*
*****UNIVERSE BLVD*****
*
COMPUTE NM HYD      ID=21  HYD NO=BASIN.F2  DA=.00573 SQ MI
%A=0  %B=5.0  %C=5.0 %D=90.0
TP=-.133 HR  RAIN=-1
PRINT HYD           ID=21 CODE=10
*
ADD HYD             ID=78 HYD=CF1.F2 ID I=77 II=21
PRINT HYD           ID=78 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.023
                      DIA=3.0  N=0.013
ROUTE MCUNGE        ID=79 HYD=RTE.CF1F2 INFLOW ID=78
                      DT=0.0  L=1560 NS=0  SLOPE=0.023
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=79 CODE=0

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```

*
*
*****TAOS AT THE TRAILS*****
*
COMPUTE NM HYD      ID=22  HYD NO=BASIN.F3  DA=.03563 SQ MI
                     %A=0  %B=21.7  %C=21.8 %D=56.5
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=22 CODE=10
*
ADD HYD             ID=70  HYD=CF1F2.F3 ID I=79 II=22
PRINT HYD           ID=70 CODE=10
*
*
*****SANTA FE III*****
*
COMPUTE NM HYD      ID=23  HYD NO=BASIN.F4  DA=.03892 SQ MI
                     %A=0  %B=25.0  %C=25.0 %D=50.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=23 CODE=10
*
*
ADD HYD             ID=71  HYD=CF1F2F3.F4 ID I=70 II=23
PRINT HYD           ID=71 CODE=10
*
ADD HYD             ID=70  HYD=CF1F2F3F4.D ID I=71 II=75
PRINT HYD           ID=70 CODE=10
*
*
*
COMPUTE NM HYD      ID=24  HYD NO=BASIN.F5  DA=.01852  SQ MI
                     %A=0  %B=12.5  %C=12.5 %D=75.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=24 CODE=10
*
*
COMPUTE NM HYD      ID=25  HYD NO=BASIN.J10  DA=.00628 SQ MI
                     %A=0  %B=5.0  %C=5.0 %D=90.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=25 CODE=10
*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.J11  DA=.00733 SQ MI
                     %A=0  %B=5.0  %C=5.0 %D=90.0
                     TP=-.133 HR  RAIN=-1
PRINT HYD           ID=26 CODE=10
*
ADD HYD             ID=23  HYD=J10.J11 ID I=25 II=26
PRINT HYD           ID=23 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.004
                     DIA=3.0  N=0.013
ROUTE MCUNGE        ID=10  HYD=RTE.J10J11 INFLOW ID=23
                     DT=0.0  L=1450 NS=0  SLOPE=0.004
                     MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=10 CODE=0
*
*
*
COMPUTE NM HYD      ID=26  HYD NO=BASIN.F7  DA=.01097 SQ MI
                     %A=0.0  %B=7.5  %C=7.5 %D=85.0
                     TP=-.1333 HR  RAIN=-1

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```

PRINT HYD                ID=26 CODE=10
*
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.004
                        DIA=3.5 N=0.013
ROUTE MCUNGE            ID=74 HYD=RTE.F7 INFLOW ID=26
                        DT=0.0 L=500 NS=0 SLOPE=0.004
                        MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD                ID=74 CODE=0
*
*
ADD HYD                  ID=75 HYD=F7.F5 ID I=74 II=24
PRINT HYD                ID=75 CODE=10
*
*
*** TURNED OFF ROUTE RESERVOIR - RESPEC
*ROUTE RESERVOIR        ID=51 HYD=POND.F5 INFLOW ID=75 CODE=5
*                        OUTFLOW STORAGE DEPTH
*                        0 0 5421
*                        3.00 0.1993 5422
*                        7.00 0.4325 5423
*                        11.00 0.7053 5424
*                        15.00 1.0245 5425
*                        20.00 1.3979 5426
*                        50.00 1.8334 5427
*
*
*** TURNED OFF PRINT HYD - RESPEC
*PRINT HYD              ID=51 CODE=10
*
*
*** CHANGED B AND C (18%) TO 23% AND D (64%) TO 54% - RESPEC
*** TURNED OFF COMPUTE HYD AND PRINT FOR BASIN.F8 - RESPEC
*COMPUTE NM HYD          ID=27 HYD NO=BASIN.F8 DA=.00781 SQ MI
*                        %A=0.0 %B=23.0 %C=23.0 %D=54.0
*                        TP=-.1333 HR RAIN=-1
*PRINT HYD              ID=27 CODE=10
*
*
*** ADDED BASIN.F8 TO BASIN.D5 - RESPEC
*** TURNED OFF ADD HYD AND PRINT FOR D5 AND F8 - RESPEC
*ADD HYD                ID=40 HYD=F8.D5 ID I=27 II=28
*PRINT HYD              ID=40 CODE=10
*
*
*** ADDED BASIN.D6 TO ID 40 - RESPEC
*** TURNED OFF ADD HYD AND PRINT FOR F8,D5,D6 - RESPEC
***** POND F5 INFLOW HYDROGRAPH (PREV ID 27)
*ADD HYD                ID=41 HYD=F8.D56 ID I=40 II=25
*PRINT HYD              ID=41 CODE=10
*** ID 41 NEW INFLOW HYD TO POND.F5 - RESPEC
*
*
*** NEW ID 41 REFLECTS TRACT 1 BASIN HYD - REPSEC
COMPUTE NM HYD          ID=3 HYD NO=TRACT.1 DA=.02717 SQ MI
                        %A=0.0 %B=20.5 %C=20.5 %D=59.0
                        TP=-.1333 HR RAIN=-1
PRINT HYD              ID=3 CODE=10
*
*
*** ADDED BYPASS.INLET TO ID 3 - REPSEC

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```

*S***** POND F5 INFLOW HYDROGRAPH (PREV ID 27)
ADD HYD          ID=41 HYD=S.F5 ID I=3 II=1
PRINT HYD        ID=41 CODE=10
*
*
PUNCH HYD          ID=41
*
*** ADDED BASIN.F5 AND F7 TO ID 41 - RESPEC
ADD HYD          ID=42 HYD=F578.D56 ID I=41 II=75
PRINT HYD        ID=42 CODE=10
*
*
*
*** NEW ROUTE RESERVOIR FOR POND.F5 - RESPEC
ROUTE RESERVOIR  ID=52 HYD=POND.F5 INFLOW ID=42 CODE=5
                  OUTFLOW  STORAGE  DEPTH
                  0         0        5421
                  3.00      0.1993    5422
                  7.00      0.4325    5423
                  11.00     0.7053    5424
                  15.00     1.0245    5425
                  20.00     1.3979    5426
                  50.00     1.8334    5427

PRINT HYD          ID=52 CODE=10
*
*
*** TURNED OFF ADD/PRINT FOR ID 78 - RESPEC
*ADD HYD          ID=78 HYD=PONDF5.F8 ID I=75 II=27
*PRINT HYD        ID=78 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.003
                  DIA=3.5 N=0.013
ROUTE MCUNGE      ID=77 HYD=RTE.PONDF5 INFLOW ID=52
                  DT=0.0 L=590 NS=0 SLOPE=0.004
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

*
PRINT HYD          ID=77 CODE=0
*
*
*** CHANGED ID FROM 78 TO 79 - RESPEC
ADD HYD          ID=79 HYD=F1TOF8 ID I=77 II=70
PRINT HYD        ID=79 CODE=10
*
*** CHANGED HYD ID FROM 78 TO 79 - RESPEC
*****
DIVIDE HYD        ID=79 Q=6.20 ID I=31 HYD NO=BYPASS.F
                  ID II=32 HYD NO=SURGE.F
PRINT HYD          ID=31 CODE=10
PRINT HYD          ID=32 CODE=10
*****
*
*
ROUTE RESERVOIR  ID=52 HYD=POND.F INFLOW ID=32 CODE=6.3
                  OUTFLOW  STORAGE  DEPTH
                  0         0        5415.08
                  3.80      0.25      5416.0
                  6.52      0.55      5417.0
                  8.74      1.69      5418.0
                  10.68     3.08      5419.0
                  12.41     4.54      5420.0

```

14.00	6.08	5421.0
15.47	7.70	5422.0
16.85	9.39	5423.0
18.29	11.16	5424.0
18.60	11.76	5424.33
100.00	13.02	5425.0

```

*
*
PRINT HYD          ID=52 CODE=10
*
*
ADD HYD            ID=53 HYD=BYPASSF.PONDF ID I=31 II=52
PRINT HYD          ID=53 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.004
                      DIA=2.0 N=0.013
ROUTE MCUNGE       ID=77 HYD=RTE.PONDF INFLOW ID=53
                      DT=0.0 L=850 NS=0 SLOPE=0.004
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=77 CODE=0
*
*
*****RESERVE*****
*
COMPUTE NM HYD      ID=20 HYD NO=BASIN.G1 DA=.02531 SQ MI
                      %A=0 %B=25.0 %C=25.0 %D=50.0
                      TP=-.133 HR RAIN=-1
PRINT HYD          ID=20 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007
                      DIA=3.0 N=0.013
ROUTE MCUNGE       ID=78 HYD=RTE.G1 INFLOW ID=20
                      DT=0.0 L=580 NS=0 SLOPE=0.007
                      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=78 CODE=0
*
*
*****SANTA FE 2*****
*
COMPUTE NM HYD      ID=21 HYD NO=BASIN.G2 DA=.02530 SQ MI
                      %A=0 %B=25.0 %C=25.0 %D=50.0
                      TP=-.133 HR RAIN=-1
PRINT HYD          ID=21 CODE=10
*
*
ADD HYD            ID=30 HYD=G1.G2 ID I=78 II=21
PRINT HYD          ID=30 CODE=10
*
*
ADD HYD            ID=31 HYD=G1G2.PONDF ID I=30 II=77
PRINT HYD          ID=31 CODE=10
*
*
*****
DIVIDE HYD          ID=31 Q=17.61 ID I=32 HYD NO=BYPASS.G
                      ID II=33 HYD NO=SURGE.G
PRINT HYD          ID=32 CODE=10
PRINT HYD          ID=33 CODE=10
*****

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```

*
*
ROUTE RESERVOIR      ID=34 HYD=POND.G   INFLOW ID=33 CODE=6.3
                     OUTFLOW  STORAGE   DEPTH
                     0         0         5415.67
                     2.50      0.23      5417.0
                     4.20      0.84      5418.0
                     5.77      1.83      5419.0
                     7.24      3.17      5420.0
                     8.63      4.70      5421.0
                     9.95      6.34      5422.0
                     10.45     7.21      5422.5
                     100.00    8.10      5423.0

*
*
PRINT HYD            ID=24 CODE=10

*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.006
                     DIA=3.0  N=0.013
ROUTE MCUNGE         ID=78 HYD=RTE.PONDG INFLOW ID=34
                     DT=0.0  L=1440 NS=0  SLOPE=0.006
                     MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

*
PRINT HYD            ID=78 CODE=0

*
*
ADD HYD              ID=79 HYD=BYPASS.RTE.G ID I=78 II=32
PRINT HYD            ID=79 CODE=10

*
*
*****
*
*****POND G DISCHARGES INTO POND K*****
*
COMPUTE NM HYD       ID=55  HYD NO=OFFSITE2  DA=.0805 SQ MI
                     %A=100  %B=0.0  %C=0.0 %D=0.0
                     TP=-.66 HR  RAIN=-1
PRINT HYD            ID=55 CODE=10

*
*
ROUTE RESERVOIR      ID=50 HYD=OFFPOND2  INFLOW ID=55 CODE=5
                     OUTFLOW  STORAGE   DEPTH
                     0         0         0
                     2.16      0.047     1
                     3.06      0.222     2
                     3.75      0.466     3
                     4.33      0.751     4
                     4.84      1.081     5

*
*
PRINT HYD            ID=50 CODE=10

*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.011
                     DIA=2.0  N=0.013
ROUTE MCUNGE         ID=70 HYD=RTE.OFFPOND2 INFLOW ID=50
                     DT=0.0  L=900 NS=0  SLOPE=0.011
                     MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

*
PRINT HYD            ID=70 CODE=0

*
*

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```

COMPUTE NM HYD      ID=30  HYD NO=BASIN.B  DA=.01998 SQ MI
%A=0  %B=34.0  %C=34.0  %D=32.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=30 CODE=10
*
*
ROUTE RESERVOIR    ID=51 HYD=POND.B  INFLOW ID=30 CODE=5
OUTFLOW  STORAGE  DEPTH
0         0        5515
1.71     0.06     5516
2.42     0.24     5517
2.96     0.55     5518
3.42     0.99     5519
3.82     1.67     5520
*
*
PRINT HYD          ID=51 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.03
DIA=2.0  N=0.013
ROUTE MCUNGE      ID=71 HYD=RTE.PONDB INFLOW ID=51
DT=0.0  L=1180 NS=0  SLOPE=0.03
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD          ID=71 CODE=0
*
*
*ADD HYD          ID=72 HYD=OFF.B ID I=71 II=70
*PRINT HYD        ID=72 CODE=10
*
*
COMPUTE NM HYD      ID=30  HYD NO=BASINE1.1  DA=.02753 SQ MI
%A=0.0  %B=33.0  %C=33.0  %D=34.0
TP=-0.133 HR  RAIN=-1
PRINT HYD          ID=30 CODE=10
*
*
ADD HYD            ID=73 HYD=OFF.E11 ID I=70 II=30
PRINT HYD          ID=73 CODE=10
*
*
COMPUTE NM HYD      ID=31  HYD NO=BASINE1.2  DA=.00588 SQ MI
%A=0.0  %B=33.0  %C=33.0  %D=34.0
TP=-0.133 HR  RAIN=-1
PRINT HYD          ID=31 CODE=10
*
*
COMPUTE NM HYD      ID=32  HYD NO=BASIN.E2  DA=.01348 SQ MI
%A=0.0  %B=18.0  %C=18.0  %D=64.0
TP=-.133 HR  RAIN=-1
PRINT HYD          ID=32 CODE=10
*
*
ADD HYD            ID=72 HYD=E2.E12 ID I=31 II=32
PRINT HYD          ID=72 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.002
DIA=3.0  N=0.013
ROUTE MCUNGE      ID=76 HYD=RTE.E12 INFLOW ID=72
DT=0.0  L=800 NS=0  SLOPE=0.01
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

```

```

*
PRINT HYD                ID=76 CODE=0
*
*
COMPUTE NM HYD           ID=33  HYD NO=BASIN.E3  DA=.01197 SQ MI
%A=0.0  %B=25.0  %C=25.0  %D=50.0
TP=-0.133 HR  RAIN=-1
PRINT HYD                ID=33 CODE=10
*
*
COMPUTE NM HYD           ID=34  HYD NO=BASIN.E4  DA=.00577 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-0.133 HR  RAIN=-1
PRINT HYD                ID=34 CODE=10
*
*
ADD HYD                  ID=74 HYD=E3.E4 ID I=33 II=34
PRINT HYD                ID=74 CODE=10
*
*
ADD HYD                  ID=75 HYD=E3E4.PONDB ID I=74 II=71
PRINT HYD                ID=75 CODE=10
*
*
ADD HYD                  ID=74 HYD=E3E4B.OFFE11 ID I=75 II=73
PRINT HYD                ID=74 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.026
DIA=4.0  N=0.013
ROUTE MCUNGE             ID=77 HYD=RTE.E1E4 INFLOW ID=74
DT=0.0  L=1210 NS=0  SLOPE=0.026
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD                ID=77 CODE=0
*
*
ADD HYD                  ID=78 HYD=E1E4.E12 ID I=77 II=76
PRINT HYD                ID=78 CODE=10
*
*
COMPUTE NM HYD           ID=35  HYD NO=BASIN.E5  DA=.04402 SQ MI
%A=0.0  %B=29.0  %C=29.0  %D=42.0
TP=-0.133 HR  RAIN=-1
PRINT HYD                ID=35 CODE=10
*
*
ADD HYD                  ID=80 HYD=E1E4.E5 ID I=78 II=35
PRINT HYD                ID=80 CODE=10
*
*
COMPUTE NM HYD           ID=36  HYD NO=BASIN.E6  DA=.00488 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-0.133 HR  RAIN=-1
PRINT HYD                ID=36 CODE=10
*
*
ADD HYD                  ID=40 HYD=E1E6 ID I=80 II=36
PRINT HYD                ID=40 CODE=10
*
*
*****
DIVIDE HYD               ID=40 Q=15.5 ID I=61  HYD NO=BYPASS.E

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                                ID II=62 HYD NO=SURGE.E
PRINT HYD                      ID=61 CODE=10
PRINT HYD                      ID=62 CODE=10
*****
*
*
ROUTE RESERVOIR                ID=37 HYD=POND.E    INFLOW ID=62 CODE=6.3
                                OUTFLOW STORAGE    DEPTH
                                0.0      0.00      5441.6
                                3.31     1.37      5444
                                4.53     2.73      5445
                                5.68     4.25      5446
                                6.77     5.97      5447
                                7.81     7.52      5448
                                50.0     9.07      5449
*
PRINT HYD                      ID=37 CODE=10
*
*
ADD HYD                        ID=40 HYD=TOTALE ID I=61 II=37
PRINT HYD                      ID=40 CODE=10
*
*
COMPUTE RATING CURVE CID=1    VS NO=1    CODE=-1    SLP=0.022
                                DIA=2.5    N=0.013
ROUTE MCUNGE                   ID=38 HYD=RTE.PONDE INFLOW ID=40
                                DT=0.0    L=1200 NS=0    SLOPE=0.022
                                MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD                      ID=38 CODE=0
*
*
***PARK***
*
COMPUTE NM HYD                 ID=32 HYD NO=BASIN.P DA=.00845 SQ MI
                                %A=43 %B=25 %C=25 %D=7
                                TP=-.133 HR RAIN=-1
PRINT HYD                      ID=32 CODE=10
*
*
***VALLE VISTA***
*
COMPUTE NM HYD                 ID=33 HYD NO=BASIN.H1 DA=.01825 SQ MI
                                %A=0.0 %B=16 %C=16 %D=68
                                TP=-.133 HR RAIN=-1
PRINT HYD                      ID=33 CODE=10
*
*
ADD HYD                        ID=43 HYD=PONDE.H1 ID I=38 II=33
PRINT HYD                      ID=43 CODE=10
*
*
***RAINBOW BLVD PORTION***
*
COMPUTE NM HYD                 ID=34 HYD NO=BASIN.H2 DA=.00836 SQ MI
                                %A=0.0 %B=0.0 %C=10.0 %D=90.0
                                TP=-.133 HR RAIN=-1
PRINT HYD                      ID=34 CODE=10
*
*
ADD HYD                        ID=44 HYD=P.H2 ID I=32 II=34
PRINT HYD                      ID=44 CODE=10

```



```

*
*
ADD HYD          ID=45 HYD=PH2.H1 ID I=44 II=43
PRINT HYD        ID=45 CODE=10
*
*
*
*
COMPUTE NM HYD    ID=35  HYD NO=BASIN.H3  DA=.01191 SQ MI
                  %A=0.0  %B=20.0  %C=20.0  %D=60.0
                  TP=-.133 HR  RAIN=-1
PRINT HYD        ID=35 CODE=10
*
*
*
ADD HYD          ID=46 HYD=PH1H3 ID I=45 II=35
PRINT HYD        ID=46 CODE=10
*
*
*
*****
DIVIDE HYD        ID=46 Q=21.6 ID I=47  HYD NO=BYPASS.H
                  ID II=48 HYD NO=SURGE.H
PRINT HYD        ID=47 CODE=10
PRINT HYD        ID=48 CODE=10
*****
*
*
*****
ROUTE RESERVOIR  ID=30 HYD=POND.H  INFLOW ID=48 CODE=5
                  OUTFLOW  STORAGE  DEPTH
                  0.0      0.0      5418.65
                  2.31     0.57     5420
                  3.88     1.62     5421
                  5.36     3.02     5422
                  100.0    4.60     5423
*
PRINT HYD        ID=30 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.003
                  DIA=2.5  N=0.013
ROUTE MCUNGE      ID=49 HYD=RTE.PONDH INFLOW ID=30
                  DT=0.0  L=1600 NS=0  SLOPE=0.003
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=49 CODE=0
*
*
*
ADD HYD          ID=31 HYD=BYPASS.RTE.H ID I=49 II=47
PRINT HYD        ID=31 CODE=10
*
*
*****TIERRA VISTA*****
*
COMPUTE NM HYD    ID=20  HYD NO=BASIN.K1  DA=.02673 SQ MI
                  %A=0.0  %B=19.0  %C=19.0  %D=62.0
                  TP=-.1715 HR  RAIN=-1
PRINT HYD        ID=20 CODE=10
*
*
*
ADD HYD          ID=32 HYD=PONDH.K1 ID I=31 II=20
PRINT HYD        ID=32 CODE=10
*
*

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```

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.0088
      DIA=4.5 N=0.013
ROUTE MCUNGE      ID=33 HYD=RTE.K1 INFLOW ID=32
      DT=0.0 L=800 NS=0 SLOPE=0.0088
      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD      ID=33 CODE=0
*
*
COMPUTE NM HYD      ID=21 HYD NO=BASIN.K2 DA=.01486 SQ MI
      %A=0.0 %B=15.0 %C=15.0 %D=70.0
      TP=-.1715 HR RAIN=-1
PRINT HYD      ID=21 CODE=10
*
*
ADD HYD      ID=34 HYD=K1.K2 ID I=33 II=21
PRINT HYD      ID=34 CODE=10
*
*
COMPUTE NM HYD      ID=22 HYD NO=BASIN.K3 DA=.00914 SQ MI
      %A=0 %B=5.0 %C=5.0 %D=90.0
      TP=-.133 HR RAIN=-1
PRINT HYD      ID=22 CODE=10
*
*
ADD HYD      ID=24 HYD=PONDG.K3 ID I=79 II=22
PRINT HYD      ID=24 CODE=10
*
*
COMPUTE NM HYD      ID=23 HYD NO=BASIN.K4 DA=.0134 SQ MI
      %A=0.0 %B=70.0 %C=30.0 %D=0.0
      TP=-.133 HR RAIN=-1
PRINT HYD      ID=23 CODE=10
*
*
ADD HYD      ID=25 HYD=K3.K4 ID I=24 II=23
PRINT HYD      ID=25 CODE=10
*
*
*****BASINS 2, B, E, H, L ARE LATER ROUTED THROUGH POND K*****
*
*
COMPUTE NM HYD      ID=81 HYD NO=BASIN.J1 DA=.00517 SQ MI
      %A=0.0 %B=12.5 %C=12.5 %D=75.0
      TP=-.1333 HR RAIN=-1
PRINT HYD      ID=81 CODE=10
*
*****CANTATA*****
*
COMPUTE NM HYD      ID=82 HYD NO=BASIN.J2 DA=.01706 SQ MI
      %A=0.0 %B=12.5 %C=12.5 %D=75.0
      TP=-.1333 HR RAIN=-1
PRINT HYD      ID=82 CODE=10
*
COMPUTE NM HYD      ID=83 HYD NO=BASIN.J3 DA=.00580 SQ MI
      %A=0.0 %B=19.0 %C=19.0 %D=62.0
      TP=-.1333 HR RAIN=-1
PRINT HYD      ID=83 CODE=10
*
*****CANTATA*****
*
COMPUTE NM HYD      ID=84 HYD NO=BASIN.J4 DA=.01006 SQ MI
      %A=0.0 %B=12.5 %C=12.5 %D=75.0
      TP=-.1333 HR RAIN=-1

```

```

PRINT HYD          ID=84 CODE=10
*
*
COMPUTE NM HYD      ID=85  HYD NO=BASIN.J5  DA=.00134 SQ MI
%A=0.0  %B=5.0  %C=5.0 %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=85 CODE=10
*
*
COMPUTE NM HYD      ID=86  HYD NO=BASIN.J6  DA=.00422 SQ MI
%A=0.0  %B=5.0  %C=5.0 %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=86 CODE=10
*
*
COMPUTE NM HYD      ID=87  HYD NO=BASIN.J7  DA=.00444 SQ MI
%A=0.0  %B=5.0  %C=5.0 %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=87 CODE=10
*
*
COMPUTE NM HYD      ID=88  HYD NO=BASIN.J8  DA=.00903 SQ MI
%A=0.0  %B=70.0 %C=30.0 %D=0.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=88 CODE=10
*
*
COMPUTE NM HYD      ID=89  HYD NO=BASIN.J9  DA=.00548 SQ MI
%A=0.0  %B=7.5  %C=7.5 %D=85.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=89 CODE=10
*
*
COMPUTE NM HYD      ID=12  HYD NO=BASIN.J12 DA=.01419 SQ MI
%A=100.0 %B=0.0  %C=0.0 %D=0.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=12 CODE=10
*
*
ADD HYD             ID=11 HYD=J10J11.J6 ID I=86 II=10
PRINT HYD           ID=11 CODE=10
*
*
ADD HYD             ID=95 HYD=J10J11J6.J9 ID I=11 II=89
PRINT HYD           ID=95 CODE=10
*
*
ADD HYD             ID=90 HYD=J10J11J6J9.J5 ID I=85 II=95
PRINT HYD           ID=90 CODE=10
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.007
DIA=3.0  N=0.013
ROUTE MCUNGE        ID=91 HYD=RTE.J5J6 INFLOW ID=90
DT=0.0  L=350 NS=0  SLOPE=0.007
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD           ID=91 CODE=0
*
*
ADD HYD             ID=93 HYD=J1.J4 ID I=81 II=84
PRINT HYD           ID=93 CODE=10
*

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```

ADD HYD          ID=94 HYD=J1J4.J5J6J9 ID I=91 II=93
PRINT HYD        ID=94 CODE=10
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007
                  DIA=3.5 N=0.013
ROUTE MCUNGE     ID=92 HYD=RTE.J14569 INFLOW ID=94
                  DT=0.0 L=650 NS=0 SLOPE=0.007
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=92 CODE=0
*
*
ADD HYD          ID=95 HYD=J2.J3 ID I=82 II=83
PRINT HYD        ID=95 CODE=10
*
*
ADD HYD          ID=94 HYD=J2J3.J7 ID I=95 II=87
PRINT HYD        ID=94 CODE=10
*
*
ADD HYD          ID=96 HYD=J145679.J237 ID I=94 II=92
PRINT HYD        ID=96 CODE=10
*
ADD HYD          ID=97 HYD=J1J7.J8 ID I=96 II=88
PRINT HYD        ID=97 CODE=10
*
*
ADD HYD          ID=98 HYD=J1J8.J12 ID I=97 II=12
PRINT HYD        ID=98 CODE=10
*
*
*****
DIVIDE HYD       ID=98 Q=26.34 ID I=83 HYD NO=BYPASSJ
                  ID II=84 HYD NO=SURGEJ
PRINT HYD        ID=83 CODE=10
PRINT HYD        ID=84 CODE=10
*****
*
*
ROUTE RESERVOIR  ID=90 HYD=POND.J INFLOW ID=84 CODE=10
                  OUTFLOW STORAGE DEPTH
                  0 0 5414
                  3.82 1.96 5415
                  7.20 4.70 5416
                  10.28 7.94 5417
                  100.0 11.56 5418
*
PRINT HYD        ID=90 CODE=0
*
*
ADD HYD          ID=97 HYD=BYPASS.SURGEPONDJ ID I=90 II=83
PRINT HYD        ID=97 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.007
                  DIA=4.0 N=0.013
ROUTE MCUNGE     ID=91 HYD=RTE.J5J6 INFLOW ID=97
                  DT=0.0 L=1100 NS=0 SLOPE=0.007
                  MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD        ID=91 CODE=0
*
*****TAOS*****

```

```

*
COMPUTE NM HYD      ID=30  HYD NO=BASIN.K5  DA=.02364 SQ MI
%A=0.0  %B=19.0  %C=19.0  %D=62.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=30  CODE=10
*
*
COMPUTE NM HYD      ID=31  HYD NO=BASIN.K6  DA=.00220 SQ MI
%A=0.0  %B=5.0  %C=5.0  %D=90.0
TP=-.1333 HR  RAIN=-1
PRINT HYD          ID=31  CODE=10
*
*
ADD HYD             ID=41  HYD=K5.K6  ID I=30  II=31
PRINT HYD           ID=41  CODE=10
*
*
*ADD HYD            ID=83  HYD=1ADCFG.JK6  ID I=27  II=91
*PRINT HYD          ID=83  CODE=10
*
*
ADD HYD             ID=43  HYD=K5K6.PONDJ  I=41  II=91
PRINT HYD           ID=43  CODE=10
*
*
ADD HYD             ID=44  HYD=K5K6PONDJ.K3K4  I=43  II=25
PRINT HYD           ID=44  CODE=10
*
*
ADD HYD             ID=96  HYD=PONDJK13.K1K4  ID I=34  II=44
PRINT HYD           ID=96  CODE=10
*
*****
DIVIDE HYD          ID=96  Q=44.91  ID I=97  HYD NO=BYPASS.K
                        ID II=98  HYD NO=SURGE.K
PRINT HYD           ID=97  CODE=10
PRINT HYD           ID=98  CODE=10
*****
*
*
*
ROUTE RESERVOIR     ID=70  HYD=POND.K  INFLOW ID=98  CODE=5
OUTFLOW  STORAGE    DEPTH
0.00      0          5404.85
6.79      2.60       5406
12.04     5.29       5407
16.84     9.24       5408
21.30     14.84      5409
25.48     21.67      5410
*
PRINT HYD           ID=70  CODE=10
*
ADD HYD             ID=99  HYD=BYPASS.ROUTE.K  ID I=70  II=97
PRINT HYD           ID=99  CODE=5
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.005
DIA=2.5  N=0.013
ROUTE MCUNGE        ID=1  HYD=RTE.PONDK  INFLOW ID=99
DT=0.0  L=2000  NS=0  SLOPE=0.005
MATCODE=0  REGCODE=0  CCODE=0  MM CODE=0
*
PRINT HYD           ID=1  CODE=0

```

```
*
*
COMPUTE NM HYD          ID=2  HYD NO=UNIVROWNORTH  DA=.007266 SQ MI
                        %A=0.0  %B=5.0  %C=5.0 %D=90.0
                        TP=-.1333 HR  RAIN=-1
PRINT HYD              ID=2  CODE=5
*
ADD HYD                ID=3  HYD=UNIVN.PONDK ID I=1 II=2
PRINT HYD              ID=3  CODE=5
*
*
COMPUTE RATING CURVE CID=1  VS NO=1  CODE=-1  SLP=0.005
                        DIA=2.5  N=0.013
ROUTE MCUNGE          ID=4  HYD=RTE.UNIVN INFLOW ID=3
                        DT=0.0  L=2000 NS=0  SLOPE=0.005
                        MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD              ID=4  CODE=0
*
*
COMPUTE NM HYD          ID=5  HYD NO=UNIVROWSOUTH  DA=.007266 SQ MI
                        %A=0.0  %B=5.0  %C=5.0 %D=90.0
                        TP=-.1333 HR  RAIN=-1
PRINT HYD              ID=5  CODE=5
*
ADD HYD                ID=6  HYD=UNIVNS.PONDK ID I=4 II=5
PRINT HYD              ID=6  CODE=5
*
*PUNCH HYD             ID=6
*
*S*****
*
*S*****END OF TRAILS DRAINAGE ANALYSIS
*
FINISH
```