This file presents time series plots of EC in the San Joaquin River at Prisoners Point. Only years for which exceedances occurred under the alternative are presented individually. Years for which no exceedances occurred are not presented. However, the entire time series is presented at the end of the file. For each year, the LLT results are provided first, followed by the ELT results. The purpose of these plots is to provide context (e.g., duration, magnitude) to the exceedances predicted to occur at Prisoners Point.

Series titles will be updated before final presentation. For the purposes of this file, the series are:

Alt 4 LLT/ELT Fall X2 – Scenario H3

Alt 4 LLT/ELT HOS – Scenario H4

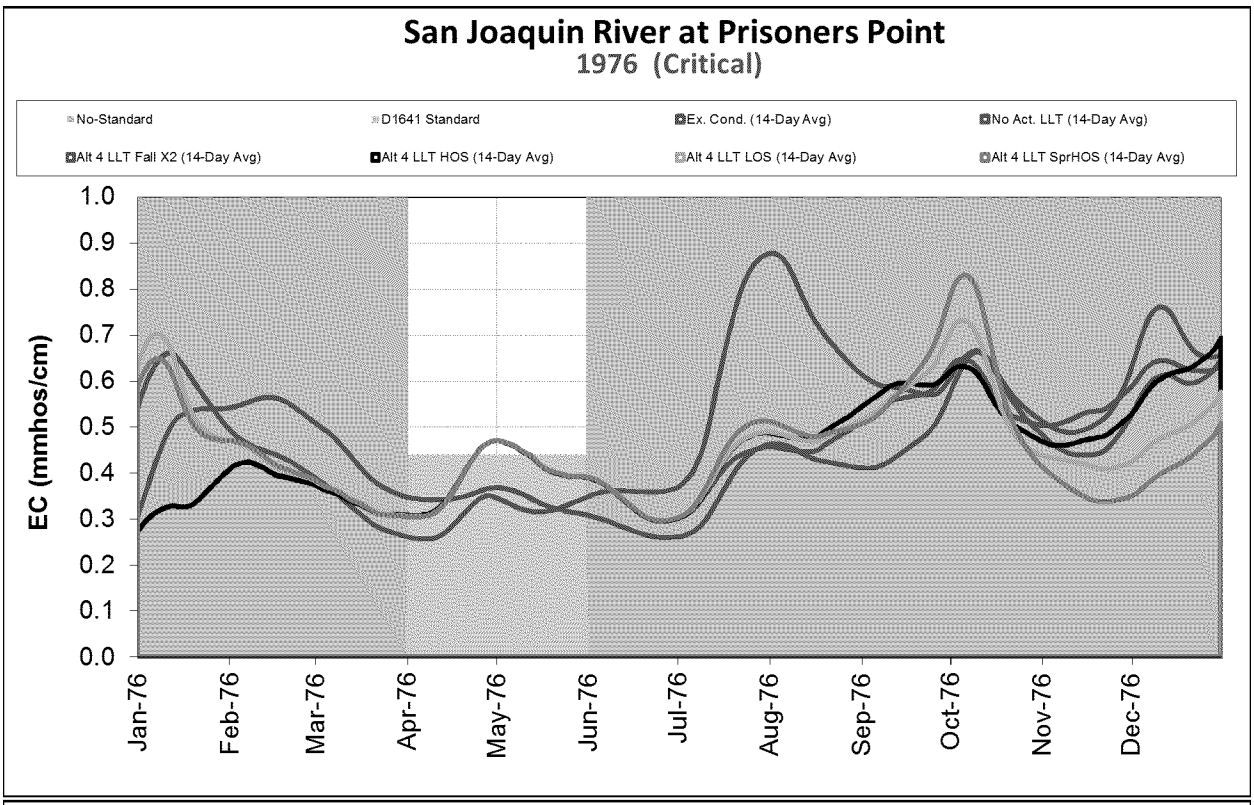
Alt 4 LLT/ELT LOS – Scenario H1

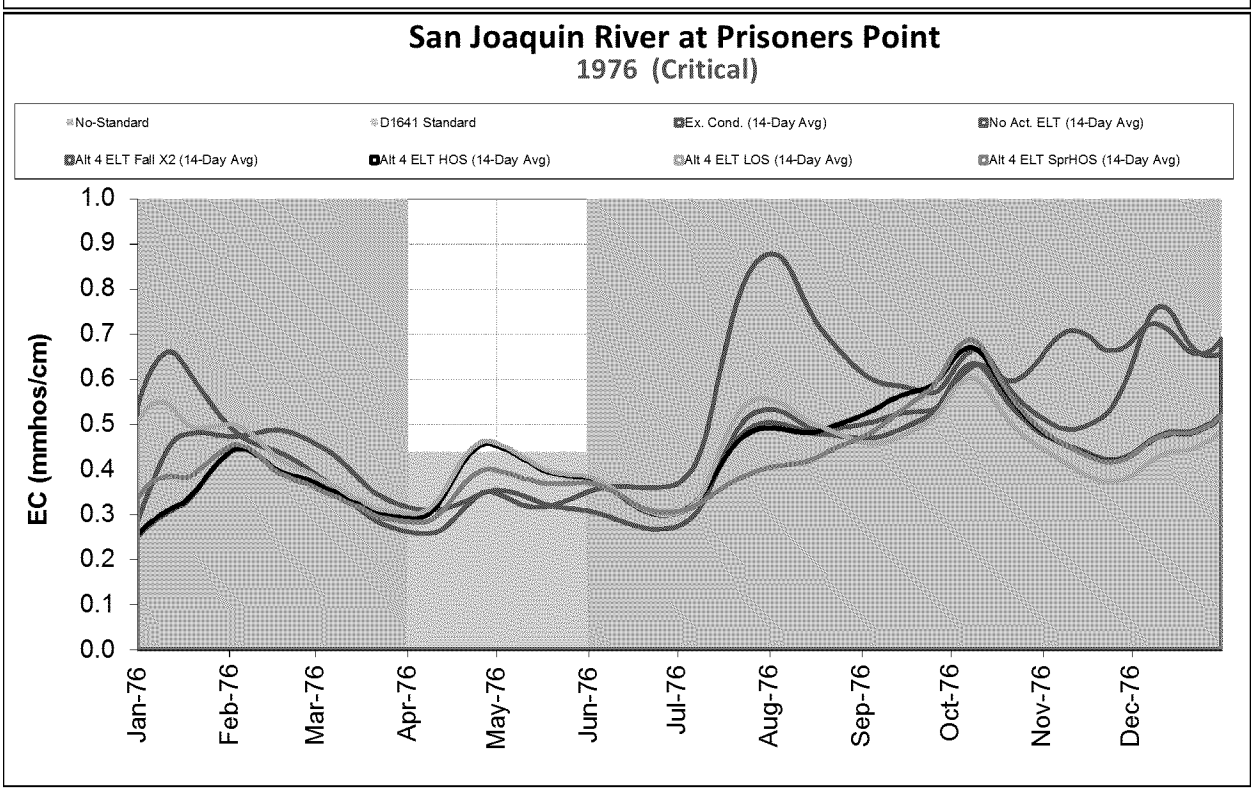
Alt 4 LLT/ELT SprHOS – Scenario H2

Note for the Alt 4 ELT results, the modeling used was the original modeling that included 25,000 acres of restoration, whereas Alternative 4A includes the 8,000 acres now assumed under the No Action Alternative plus an additional 160 acres. Additionally, the No Action ELT results are for modeling that did not include any restoration, whereas the No Action ELT for the purposes of Alternative 4A comparisons now include 8,000 acres of restoration and Yolo Bypass improvements.

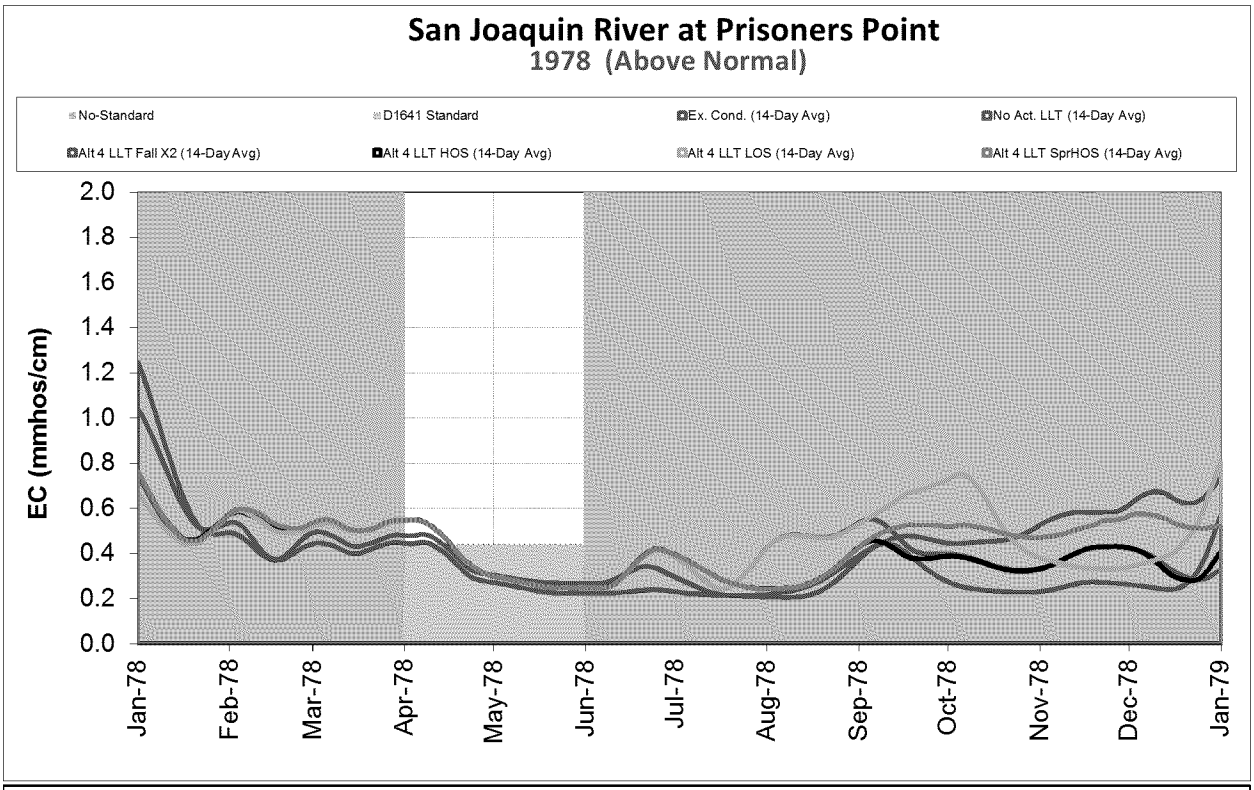
Sensitivity analyses performed on Alt 4 Scenario H3 LLT that included no restoration suggested that EC during the periods of exceedance would be reduced, relative to Alt 4 Scenario H3 LLT with 65,000 acres of restoration, but most of the exceedances still occurred. It is anticipated that modeling that reflects actual Alternative 4A ELT assumptions will be available soon, and at that time will be assessed to determine the actual nature of the Prisoners Point exceedances.

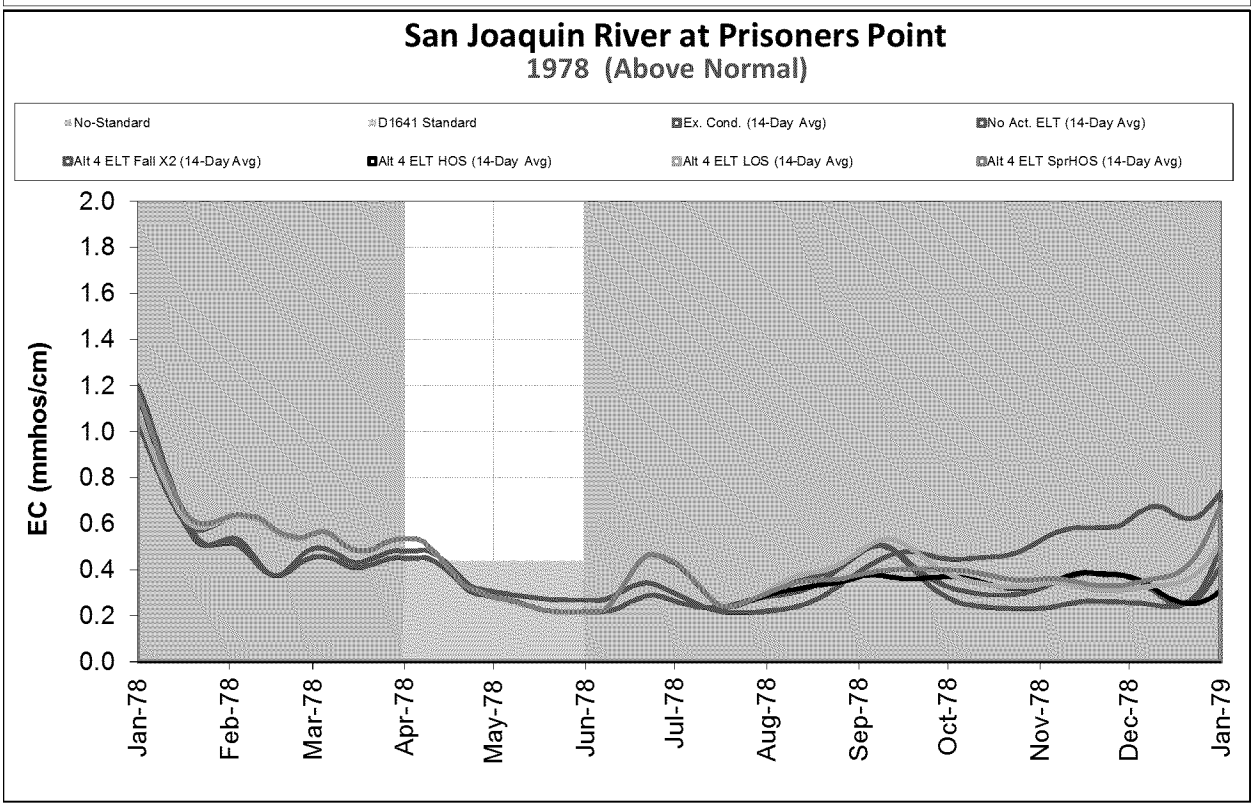
ED_000733_PSTs_00024156-00001

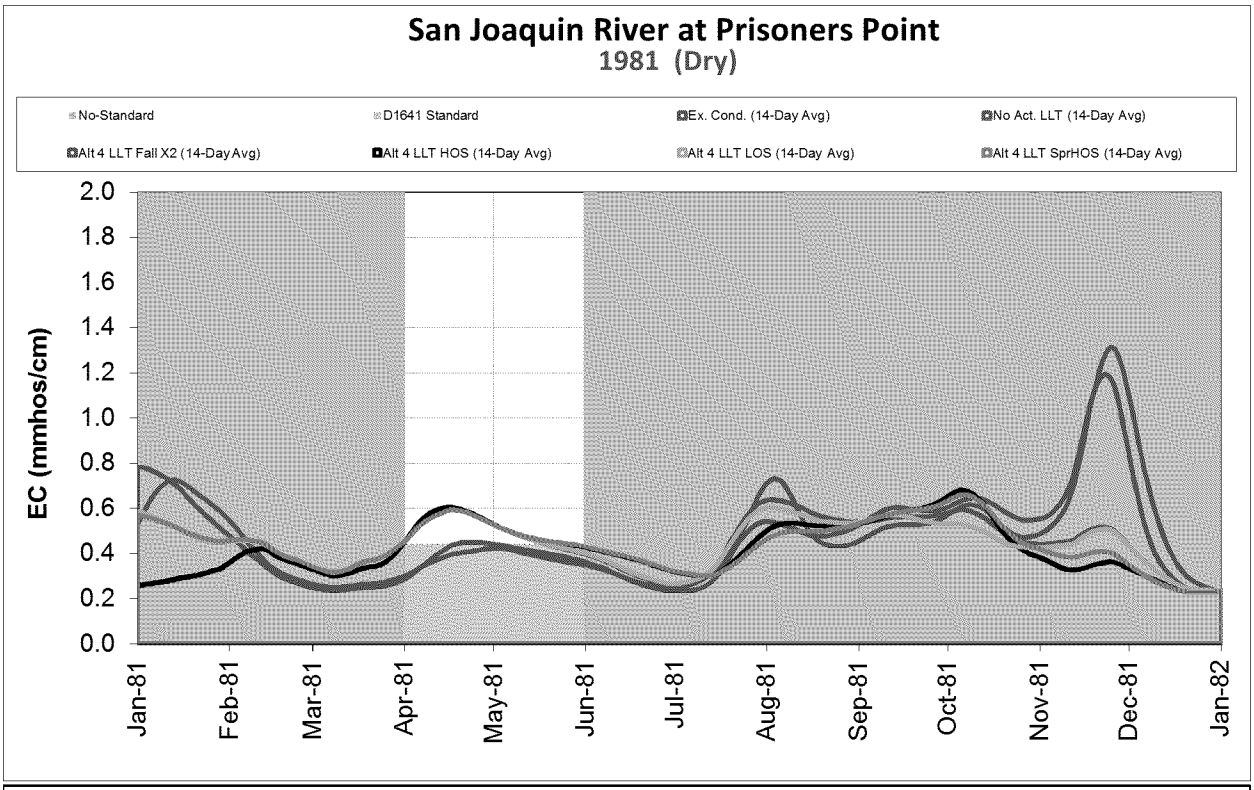


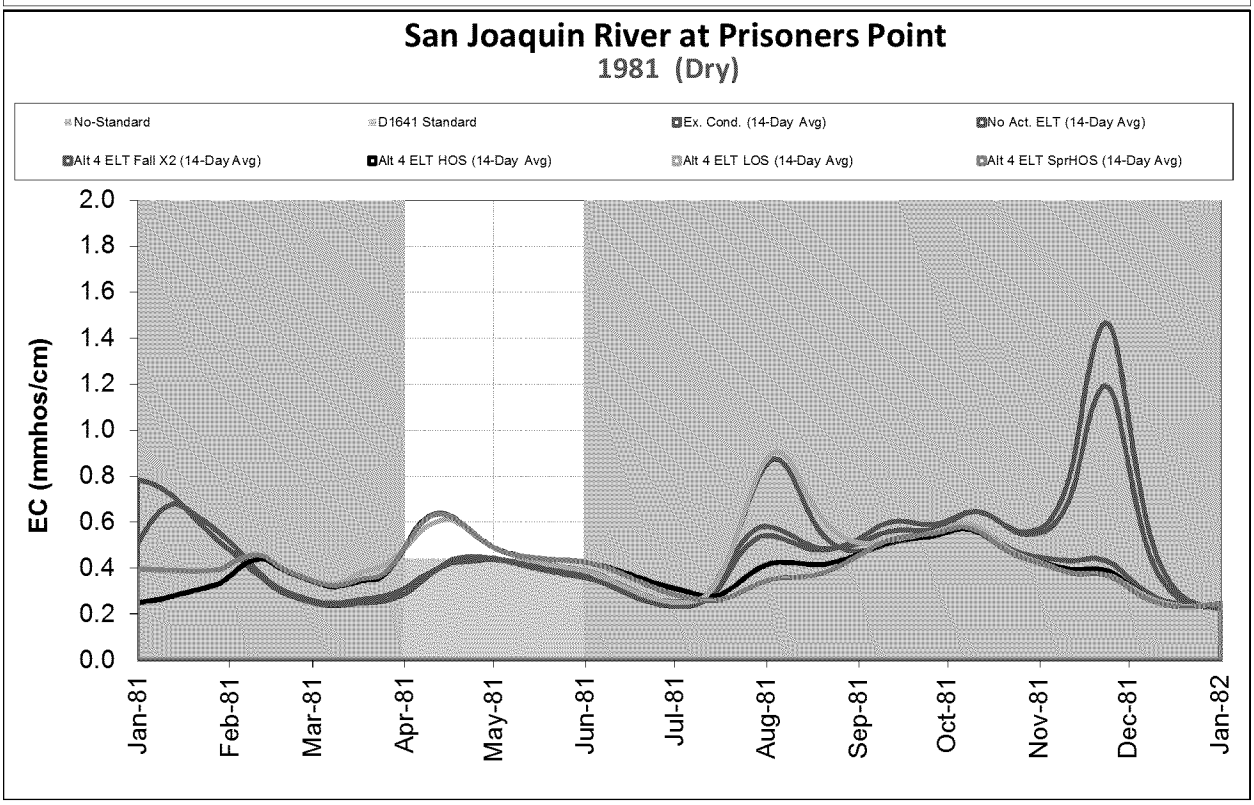


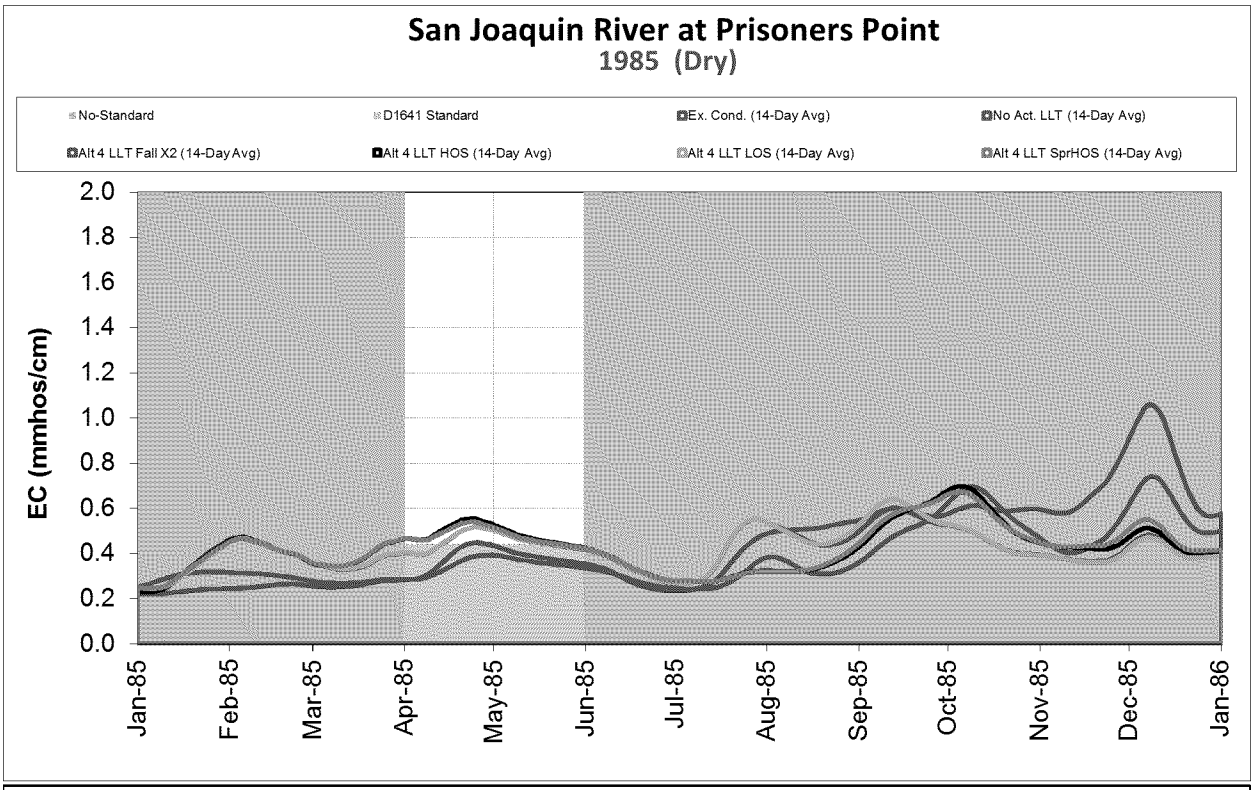
***NOTE* – 1976 is a "Critical" year under Existing Conditions and thus the objective does not apply, but 1976 is a "Dry" year under ELT and LLT due to the effect of climate change shifting the timing of runoff and flows.**

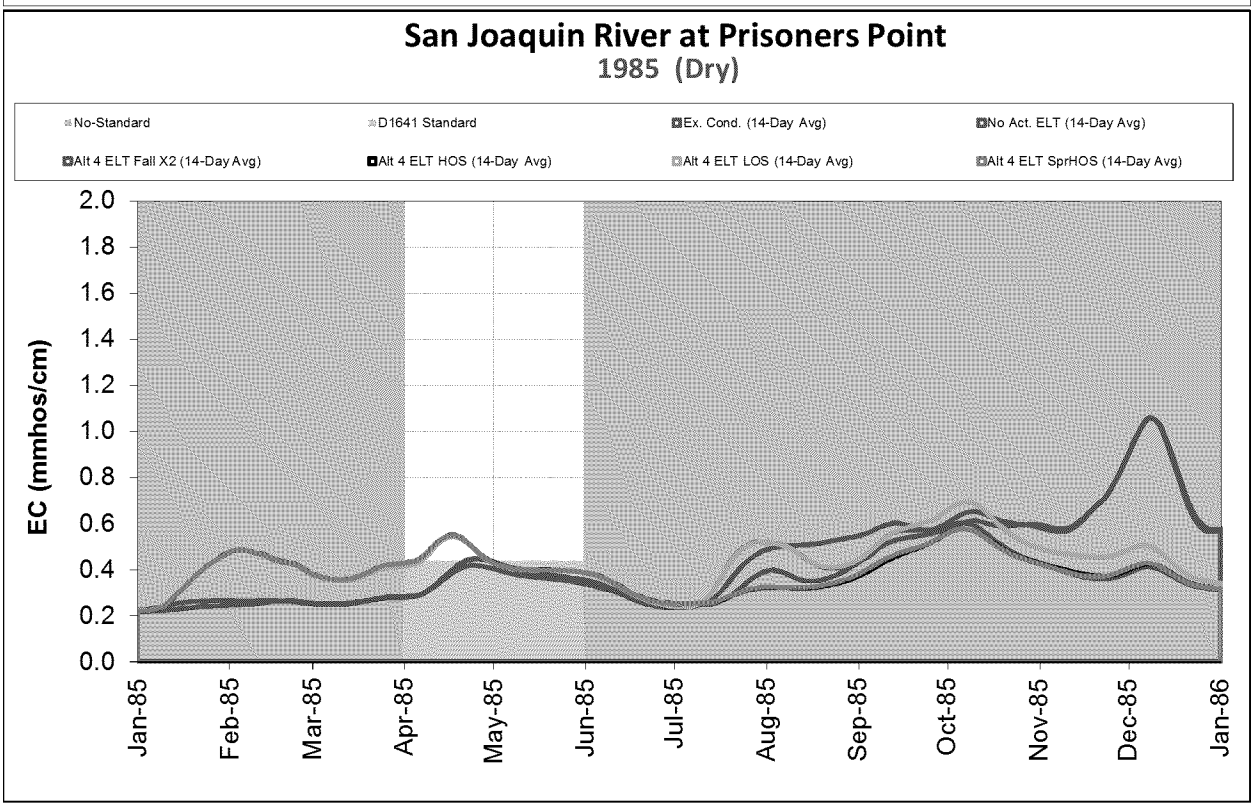

San Joaquin River at Prisoners Point
1978 (Above Normal)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-78
Feb-78
Mar-78
Apr-78
May-78
Jun-78
Jul-78
Aug-78
Sep-78
Oct-78
Nov-78
Dec-78
Jan-79

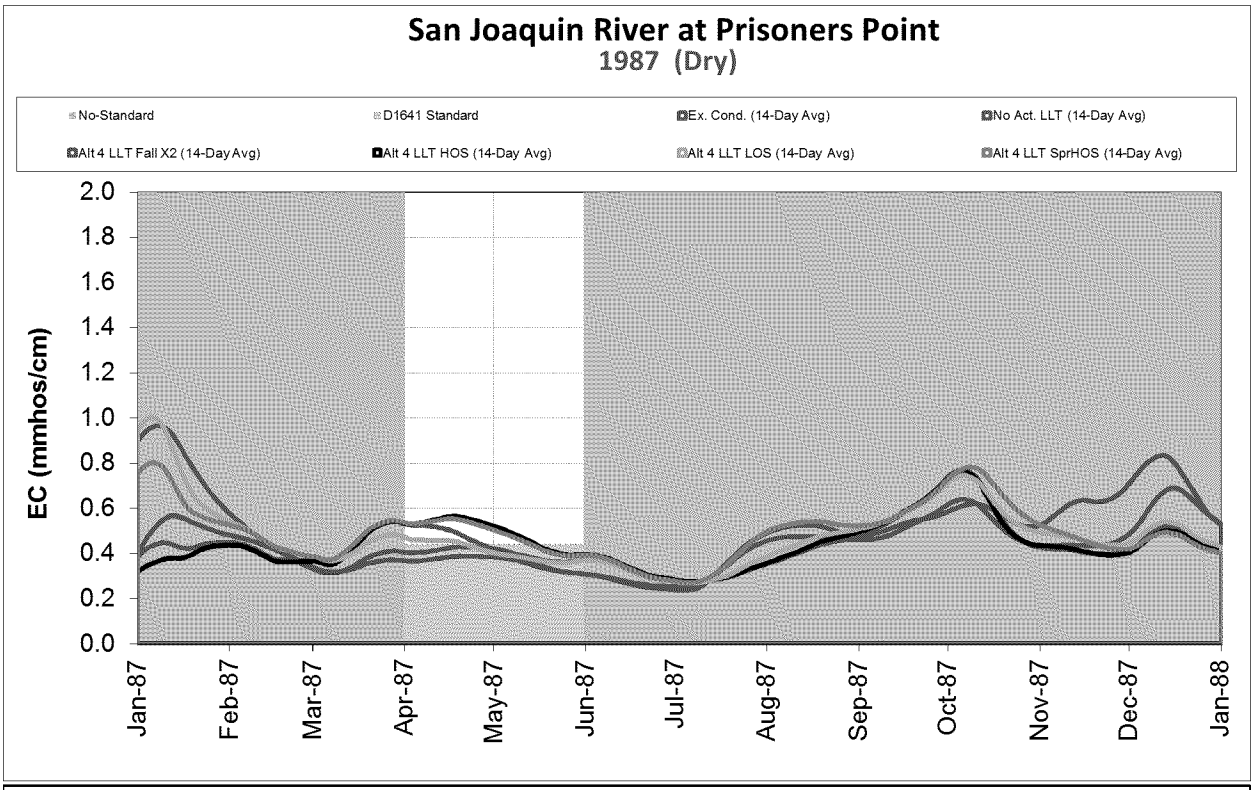

San Joaquin River at Prisoners Point
1978 (Above Normal)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-78
Feb-78
Mar-78
Apr-78
May-78
Jun-78
Jul-78
Aug-78
Sep-78
Oct-78
Nov-78
Dec-78
Jan-79

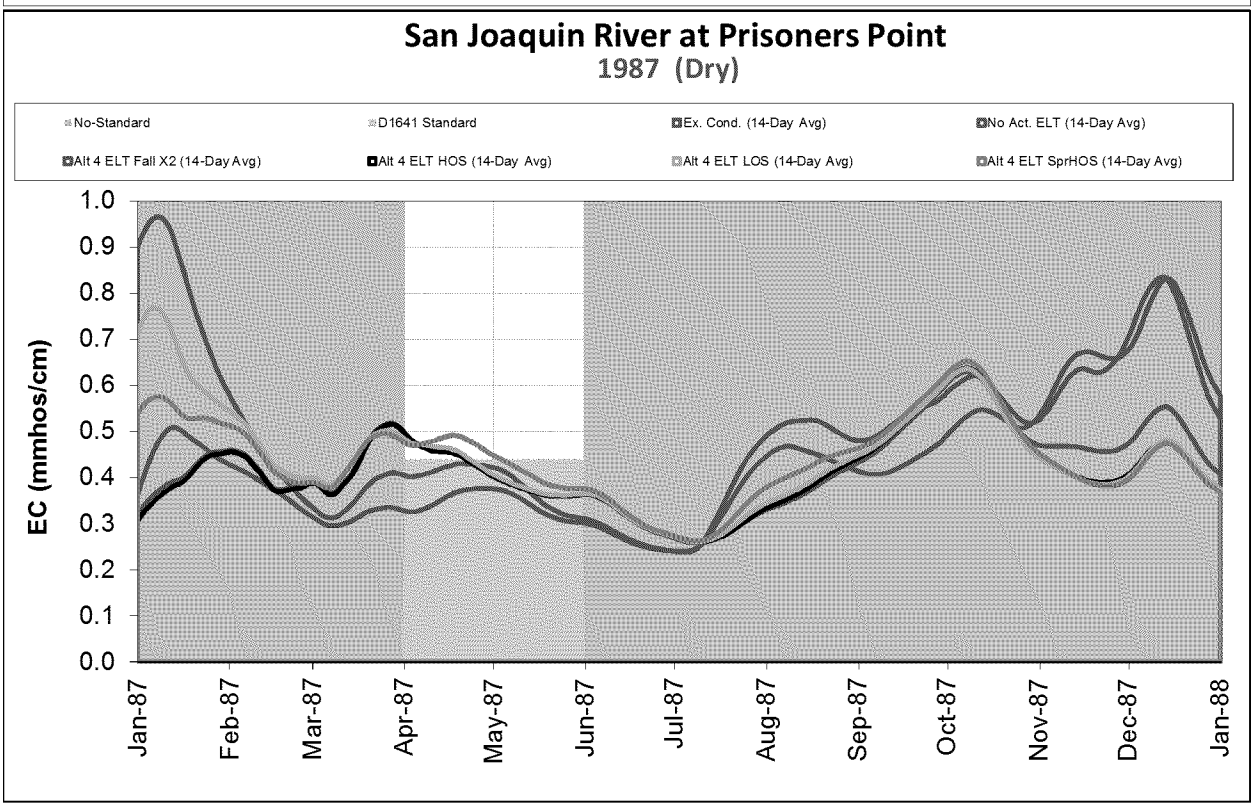

San Joaquin River at Prisoners Point
1981 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-81
Feb-81
Mar-81
Apr-81
May-81
Jun-81
Jul-81
Aug-81
Sep-81
Oct-81
Nov-81
Dec-81
Jan-82

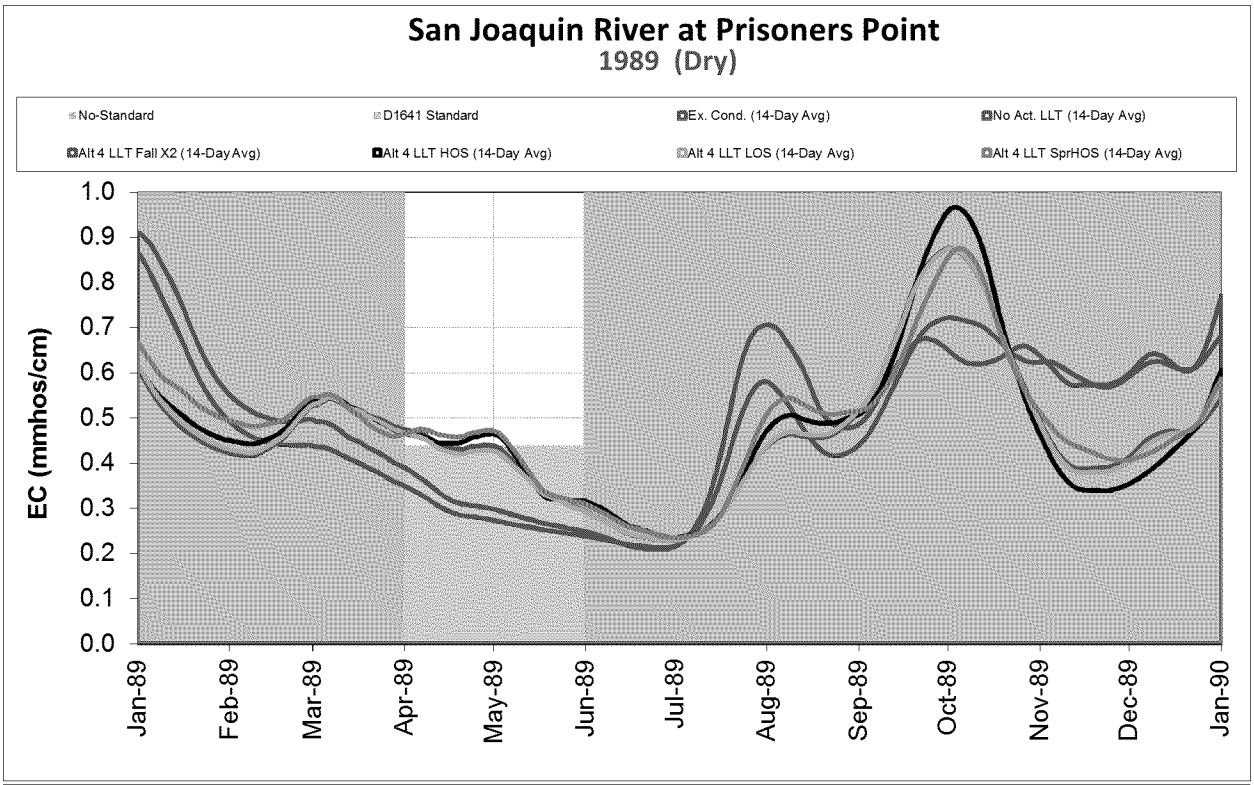

San Joaquin River at Prisoners Point
1981 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-81
Feb-81
Mar-81
Apr-81
May-81
Jun-81
Jul-81
Aug-81
Sep-81
Oct-81
Nov-81
Dec-81
Jan-82

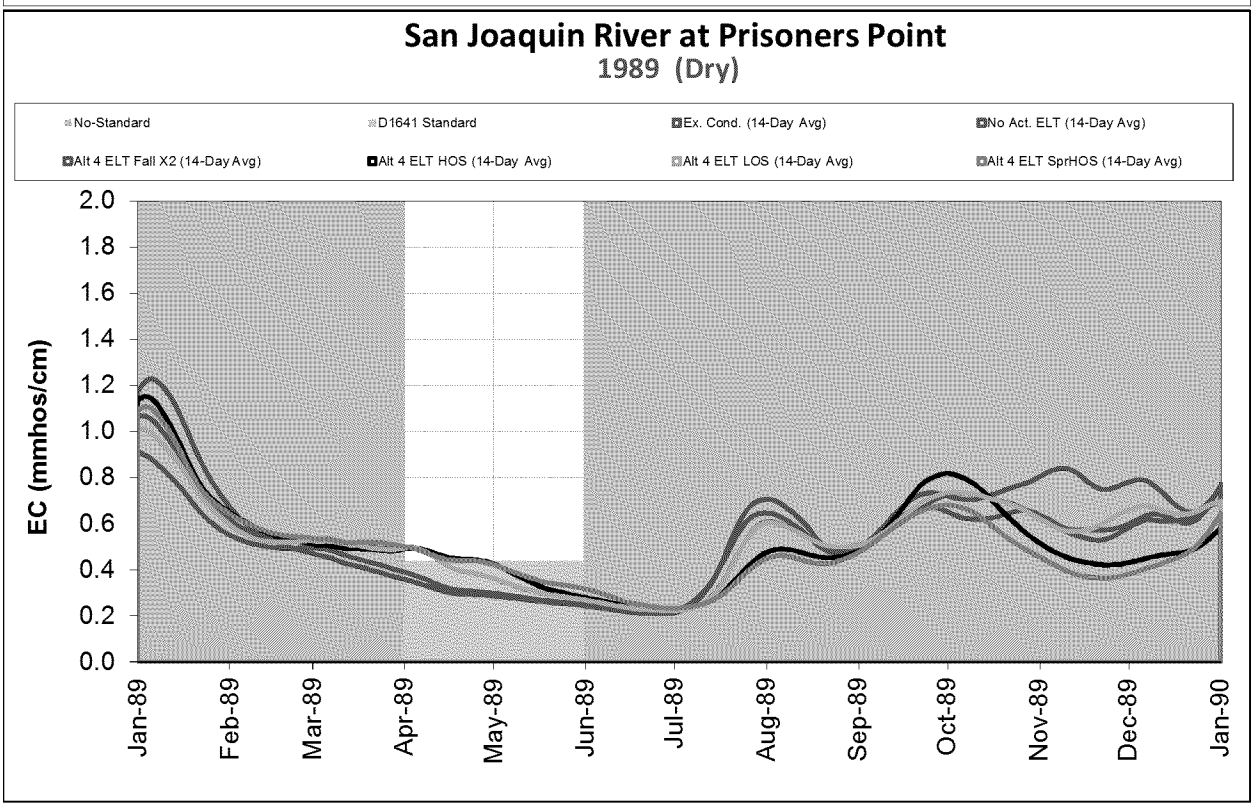

San Joaquin River at Prisoners Point
1985 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-85
Feb-85
Mar-85
Apr-85
May-85
Jun-85
Jul-85
Aug-85
Sep-85
Oct-85
Nov-85
Dec-85
Jan-86

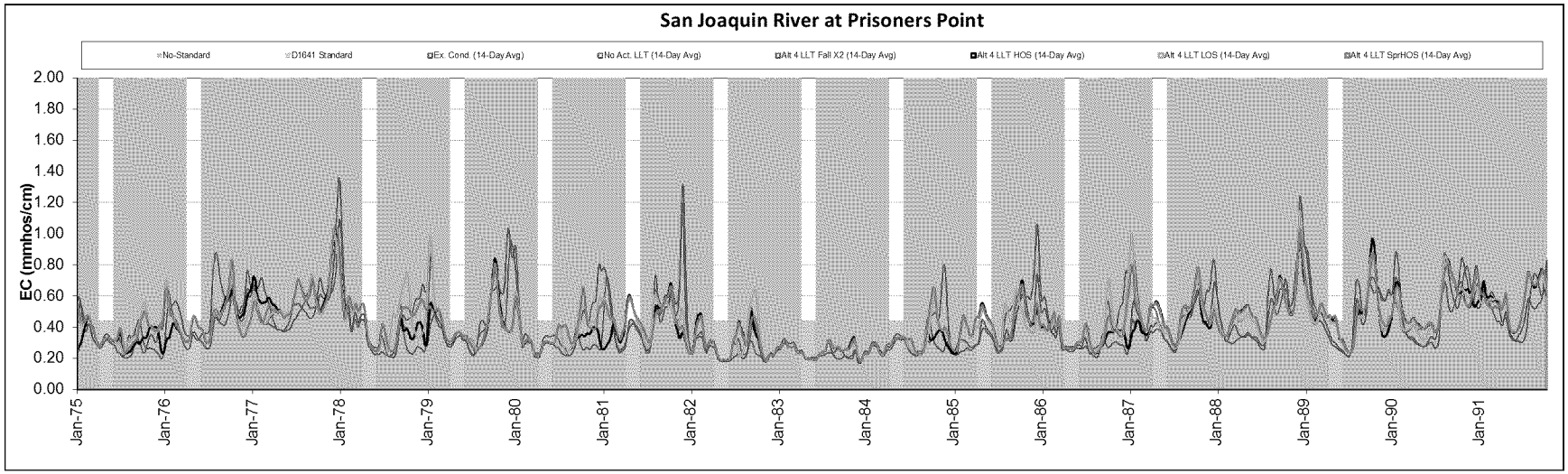

San Joaquin River at Prisoners Point
1985 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-85
Feb-85
Mar-85
Apr-85
May-85
Jun-85
Jul-85
Aug-85
Sep-85
Oct-85
Nov-85
Dec-85
Jan-86

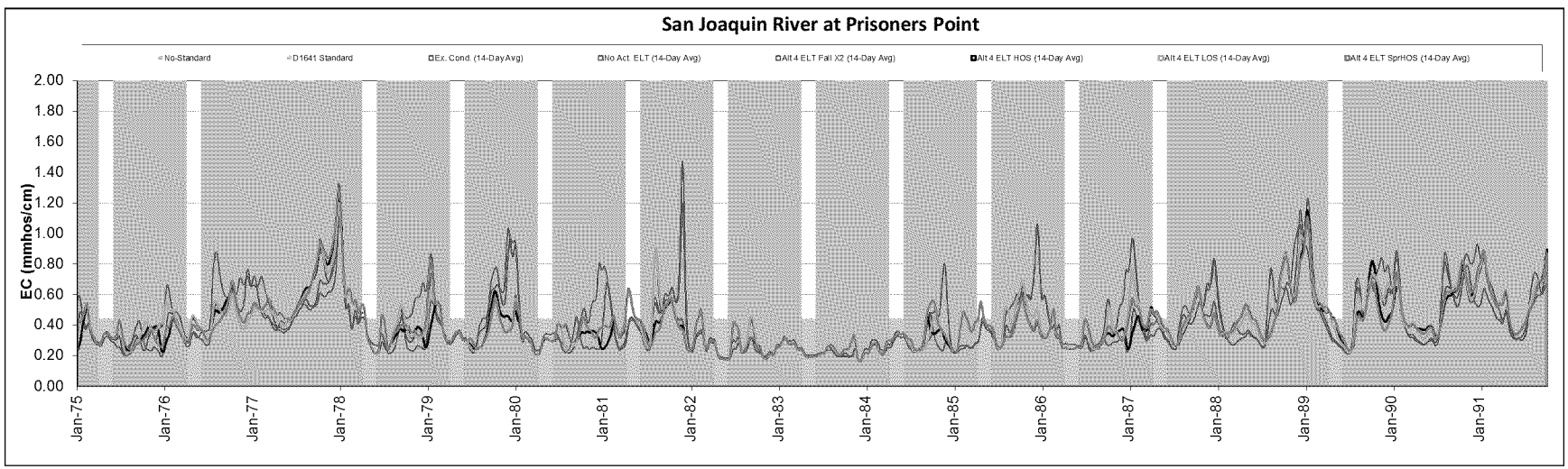

San Joaquin River at Prisoners Point
1987 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-87
Feb-87
Mar-87
Apr-87
May-87
Jun-87
Jul-87
Aug-87
Sep-87
Oct-87
Nov-87
Dec-87
Jan-88


San Joaquin River at Prisoners Point
1987 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jan-87
Feb-87
Mar-87
Apr-87
May-87
Jun-87
Jul-87
Aug-87
Sep-87
Oct-87
Nov-87
Dec-87
Jan-88


San Joaquin River at Prisoners Point
1989 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Jan-89
Feb-89
Mar-89
Apr-89
May-89
Jun-89
Jul-89
Aug-89
Sep-89
Oct-89
Nov-89
Dec-89
Jan-90


San Joaquin River at Prisoners Point
1989 (Dry)
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Jan-89
Feb-89
Mar-89
Apr-89
May-89
Jun-89
Jul-89
Aug-89
Sep-89
Oct-89
Nov-89
Dec-89
Jan-90


San Joaquin River at Prisoners Point
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. LLT (14-Day Avg)
Alt 4 LLT Fall X2 (14-Day Avg)
Alt 4 LLT HOS (14-Day Avg)
Alt 4 LLT LOS (14-Day Avg)
Alt 4 LLT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Jan-75
Jan-76
Jan-77
Jan-78
Jan-79
Jan-80
Jan-81
Jan-82
Jan-83
Jan-84
Jan-85
Jan-86
Jan-87
Jan-88
Jan-89
Jan-90
Jan-91


San Joaquin River at Prisoners Point
No-Standard
D1641 Standard
Ex. Cond. (14-Day Avg)
No Act. ELT (14-Day Avg)
Alt 4 ELT Fall X2 (14-Day Avg)
Alt 4 ELT HOS (14-Day Avg)
Alt 4 ELT LOS (14-Day Avg)
Alt 4 ELT SprHOS (14-Day Avg)
EC (mmhos/cm)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Jan-75
Jan-76
Jan-77
Jan-78
Jan-79
Jan-80
Jan-81
Jan-82
Jan-83
Jan-84
Jan-85
Jan-86
Jan-87
Jan-88
Jan-89
Jan-90
Jan-91