Preliminary Analysis of DEFT Operation Studies

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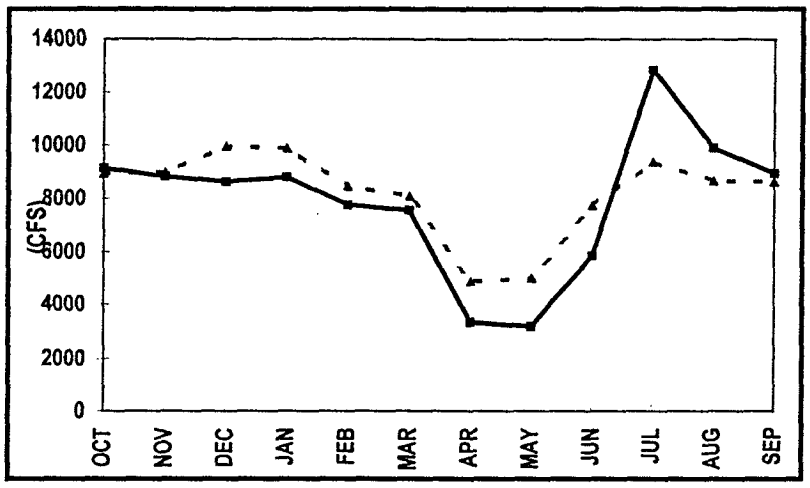
- CVP Deliveries and Unmet Demand
- Comparison of Computed Export Ratios (By Month)

Comparison of Total Delta Exports

Monthly Average

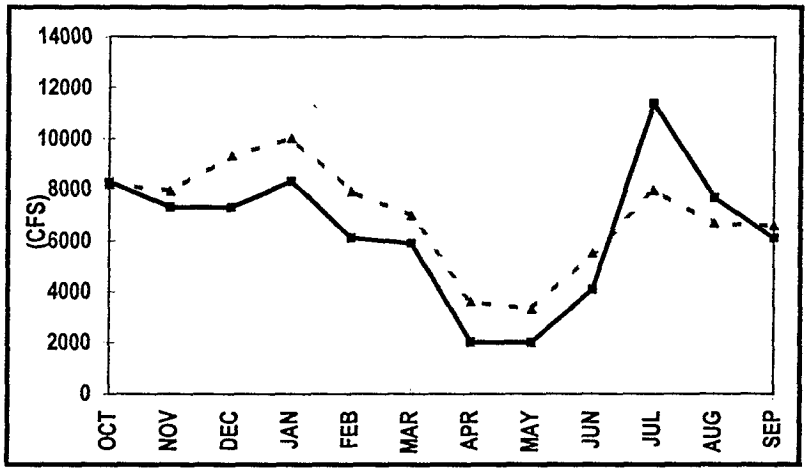
LONG TERM (73 YR AVG)



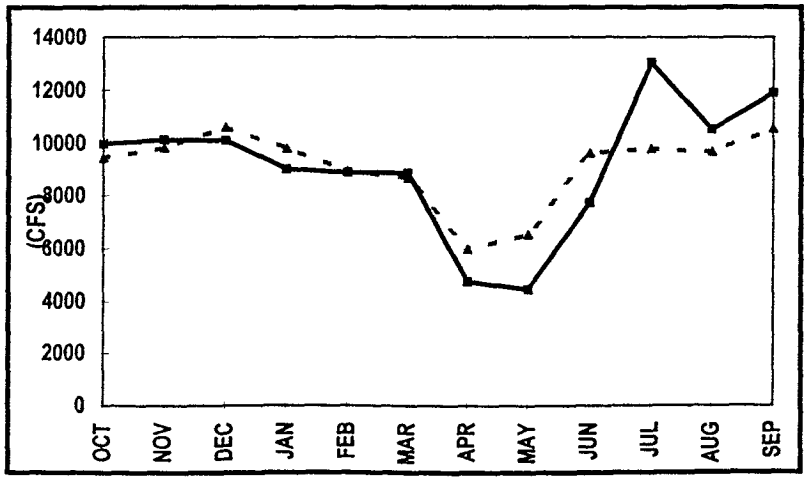
* Existing Conditions

** DEFT Actions

DRY AND CRITICAL YEARS



ABOVE NORMAL AND WET YEARS

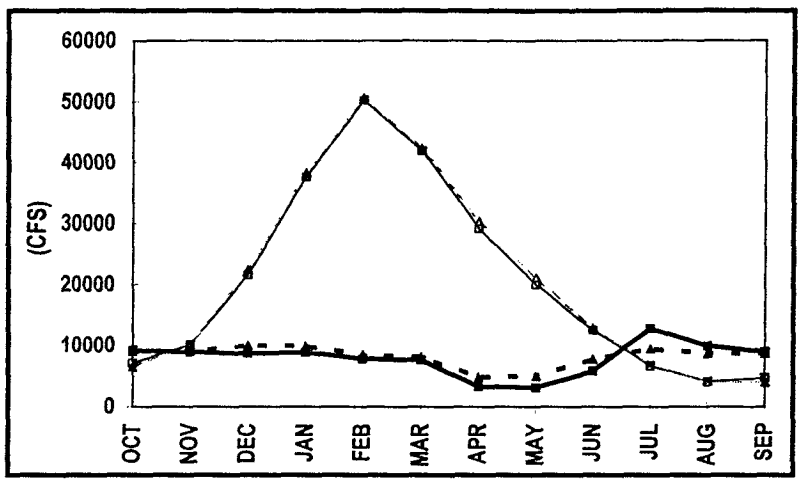


** 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)*

*** DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

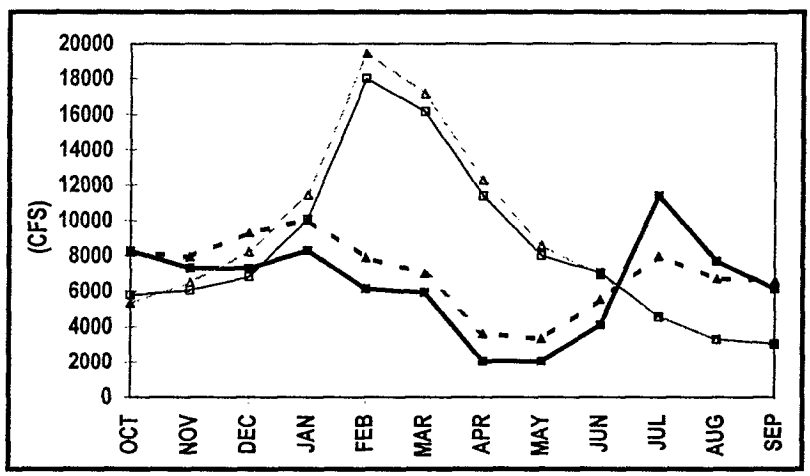
Effects of SWP and CVP On Delta Outflow

LONG TERM (73 YR AVG)

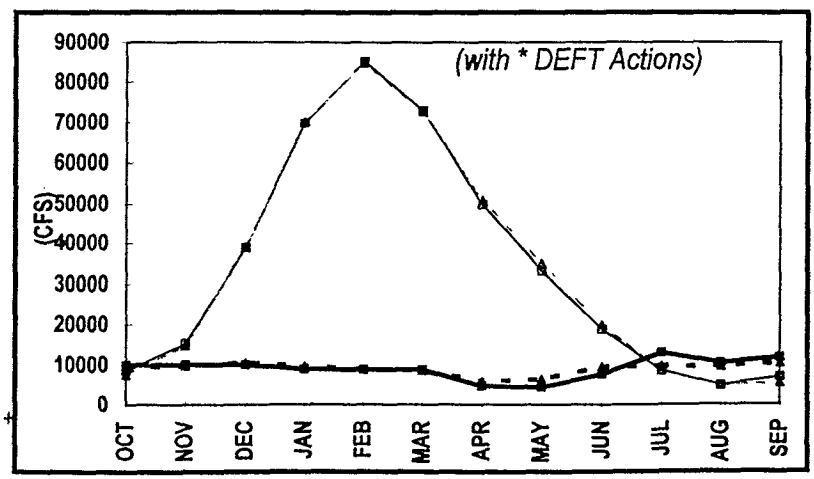


- Total Delta Exports (* Existing Conditions)
- Total Delta Exports (with * * DEFT Actions)
- Total Delta Outflow (* Existing Conditions)
- Total Delta Outflow (with * * DEFT Actions)

DRY AND CRITICAL YEARS



ABOVE NORMAL AND WET YEARS



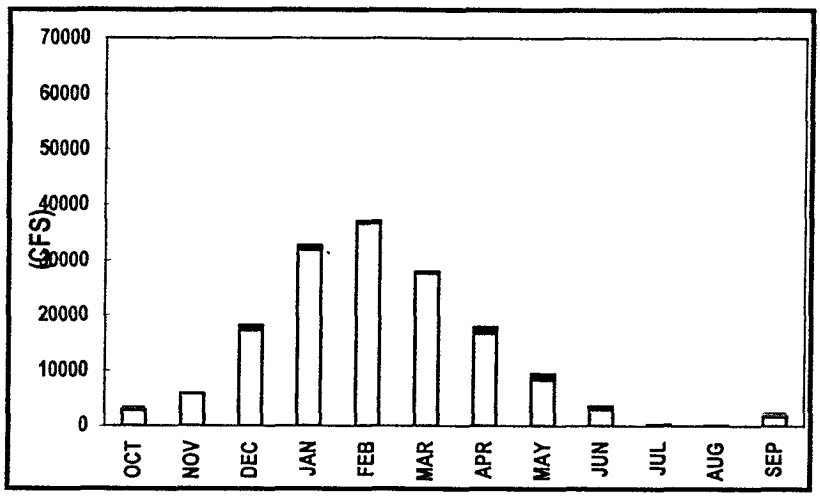
** 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)*

** * DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

Surplus Delta Flows

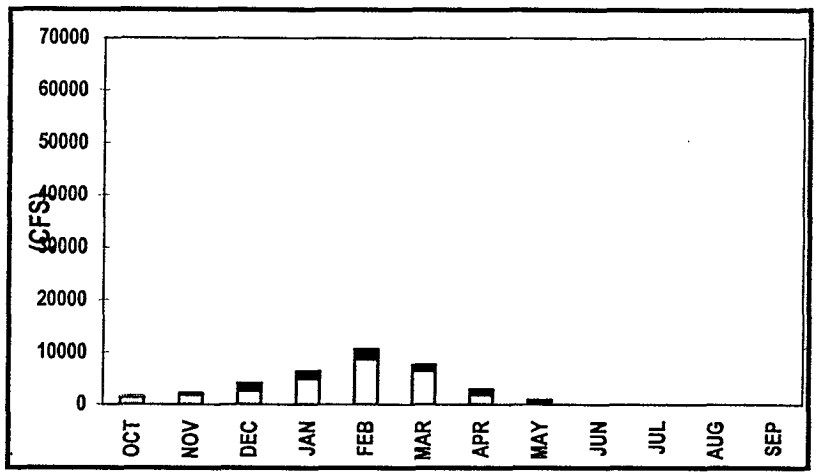
Monthly Average

LONG TERM (73 YR AVG)

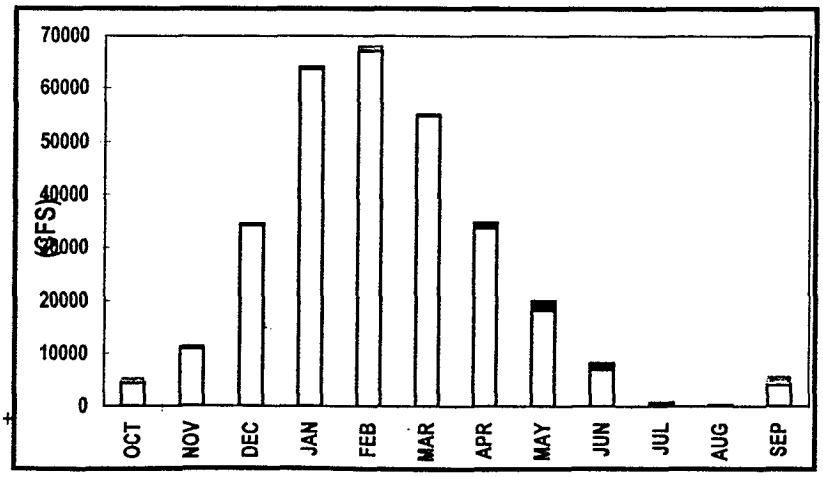


- Existing Conditions (1995 Level of Demand)
- * Increase in Delta Surplus with DEFT Actions
- * Decrease in Delta Surplus with DEFT Actions

DRY AND CRITICAL YEARS



ABOVE NORMAL AND WET YEARS



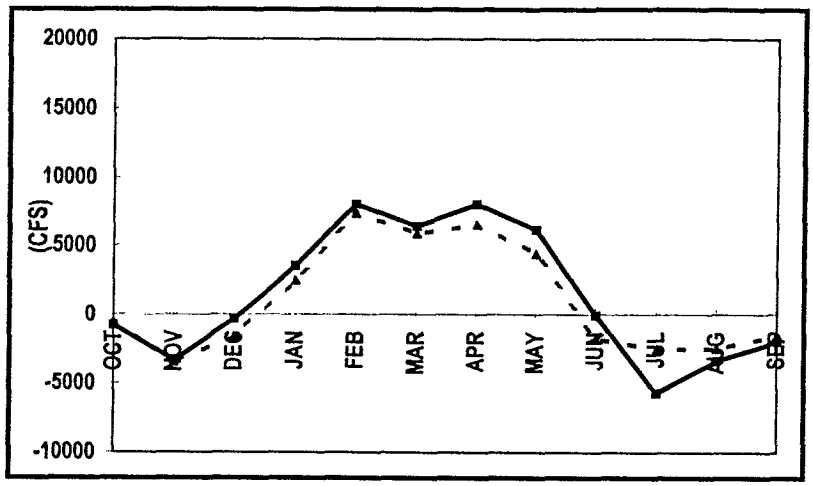
** 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)*

*** DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

Flow at Qwest

Monthly Average

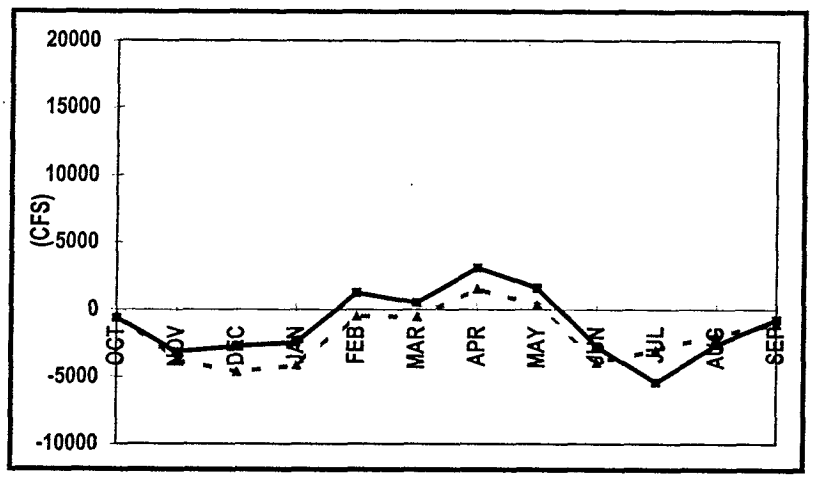
LONG TERM (73 YR AVG)



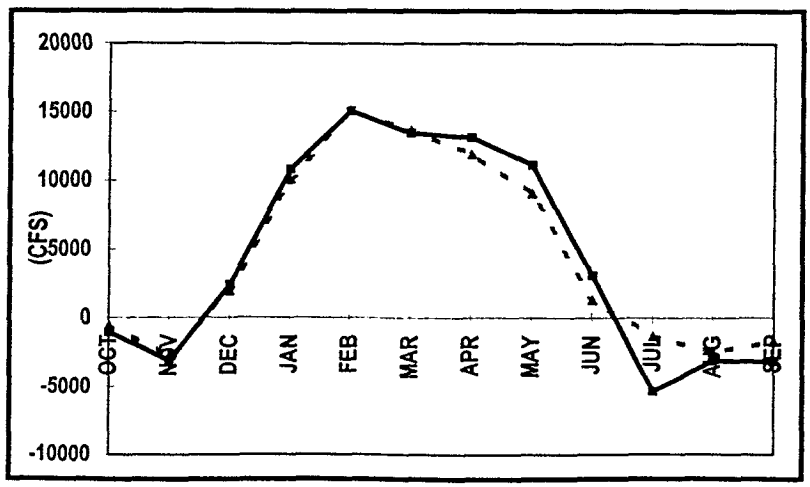
Existing Conditions (1995 Level of Demand)

* DEFT Actions

DRY AND CRITICAL YEARS



ABOVE NORMAL AND WET YEARS

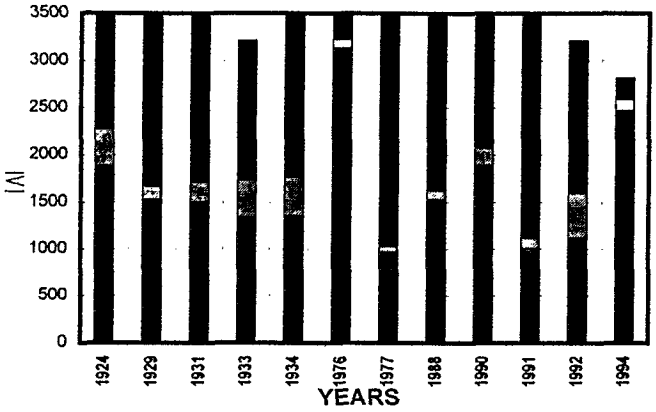


** 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)*

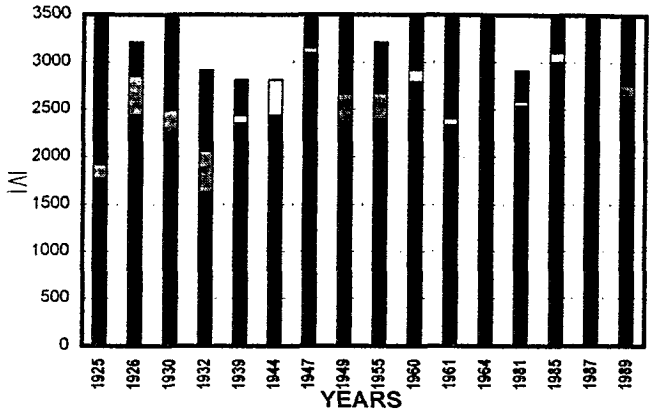
*** DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

SWP Deliveries and Unmet Demands

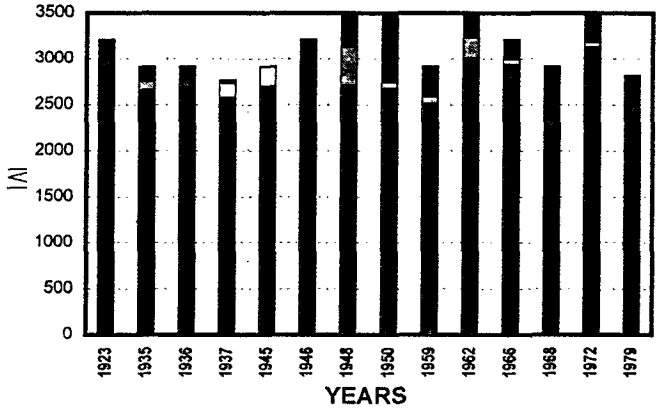
CRITICAL YEARS



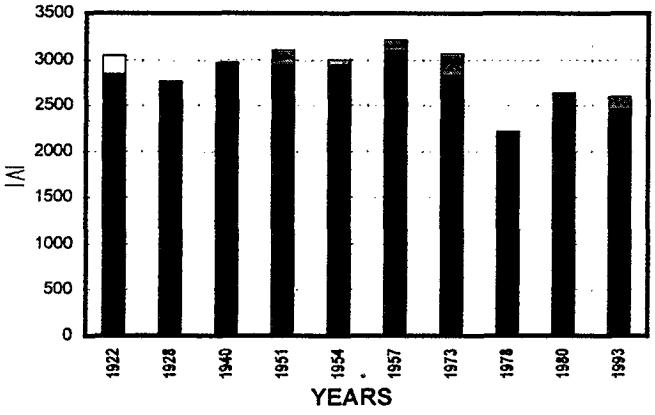
DRY YEARS



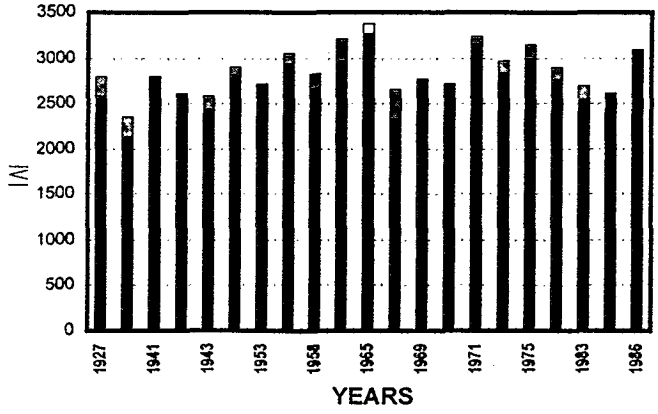
BELOW NORMAL YEARS



ABOVE NORMAL YEARS



WET YEARS



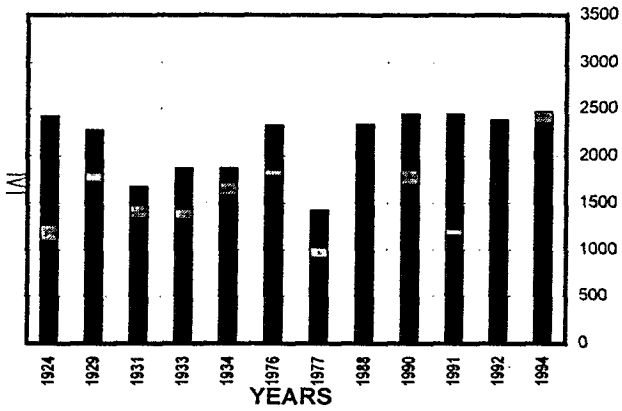
■ Deliveries □ Increased Deliveries by **DEFT ▨ Decreased Deliveries by **DEFT ■ Unmet Demand

** * DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

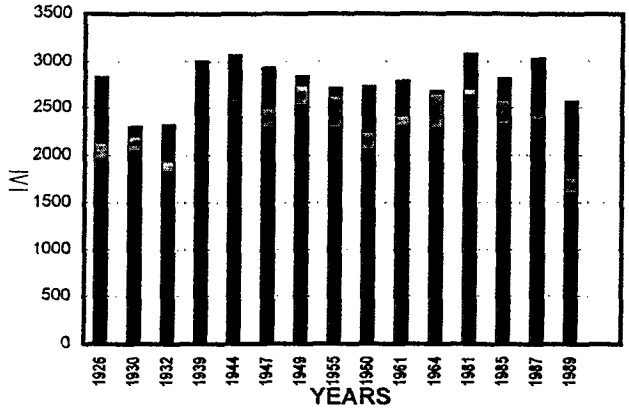
NOTE: Base Study includes 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)

CVP Deliveries and Unmet Demands

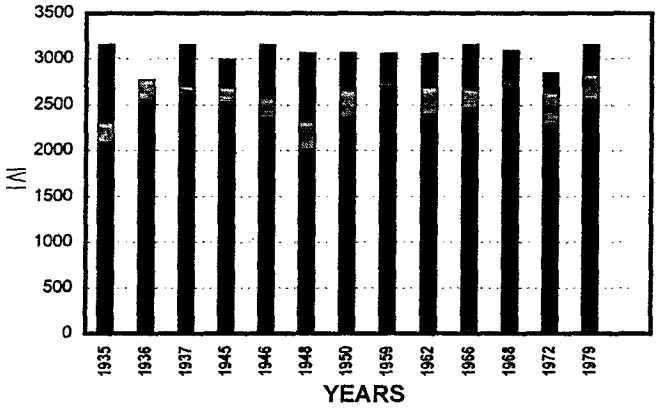
CRITICAL YEARS



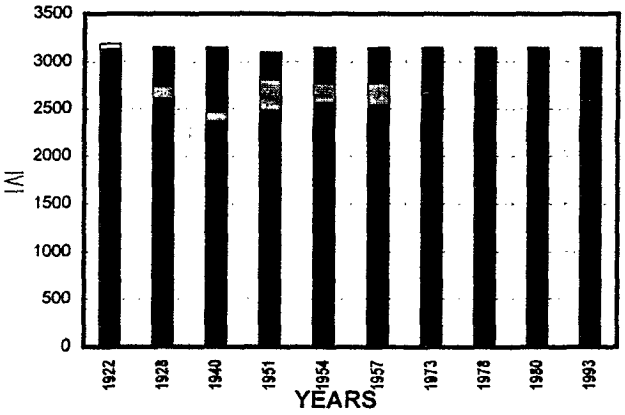
DRY YEARS



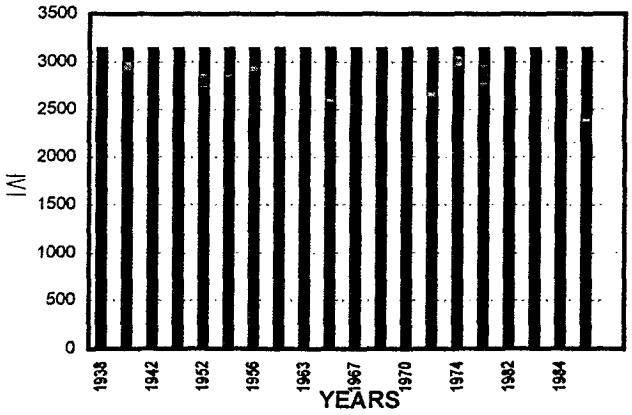
BELOW NORMAL YEARS



ABOVE NORMAL YEARS



WET YEARS



■ Deliveries □ Increased Deliveries by **DEFT ▩ Decreased Deliveries by **DEFT ■ Unmet Demand

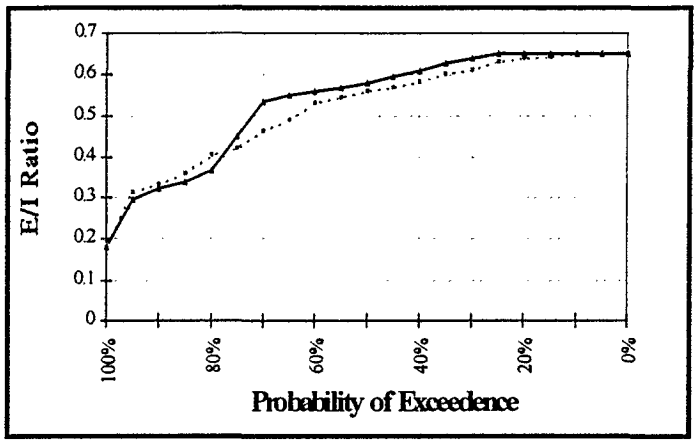
*** DEFT Actions: Base + ISDP + Vamp + .25 E/I (Feb-Jun) + .55 E/I (Nov) ,.45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)*

NOTE: Base Study includes 1995 Level of Demand + WQCP + X2 (1962 LOD May & June) + Pulse flow export restrictions (.2 - .5)

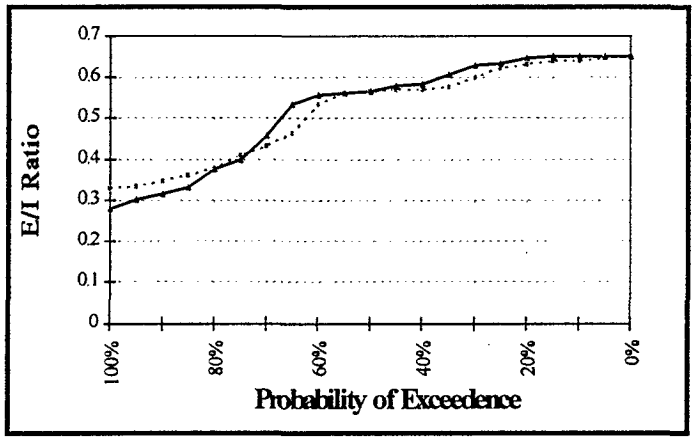
OCTOBER

Comparison of Computed Export Ratios

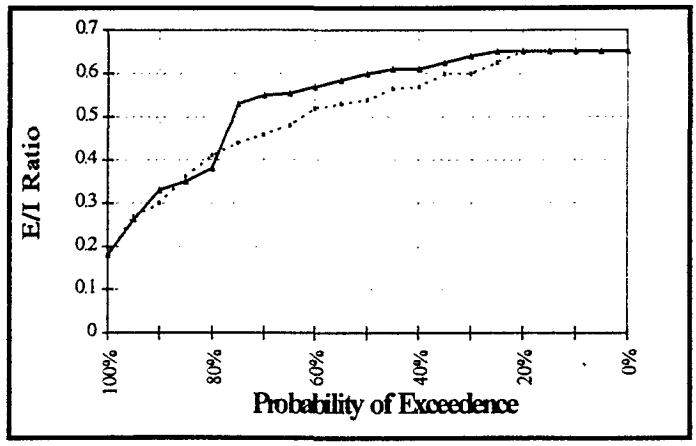
LONG TERM (73 YR AVG)



DRY AND CRITICAL YEARS



ABOVE NORMAL AND WET YEARS



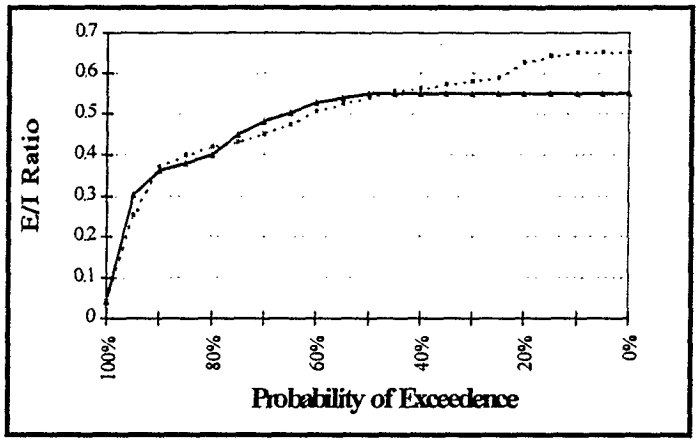
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

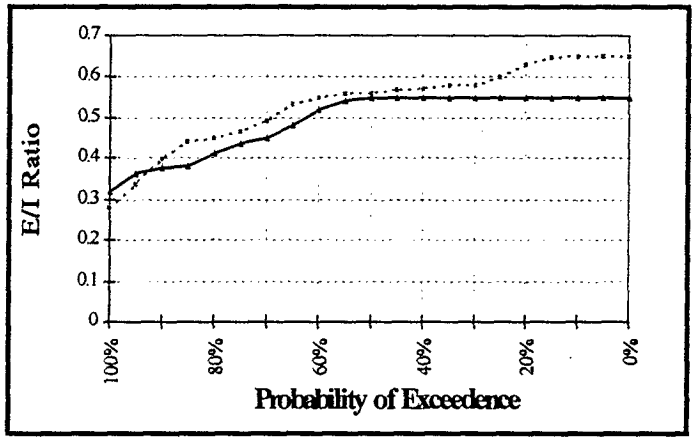
NOVEMBER

Comparison of Computed Export Ratios

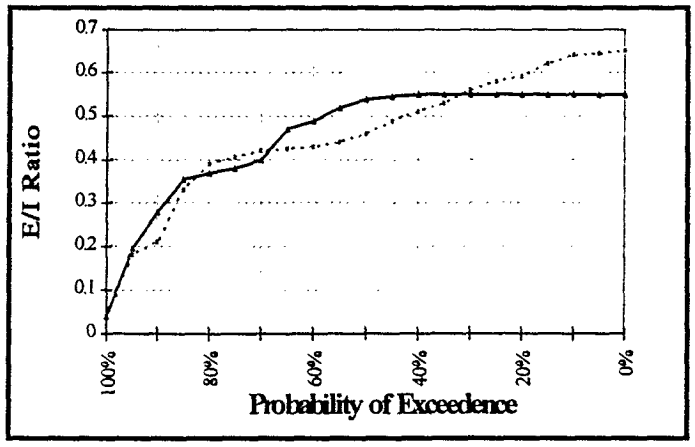
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



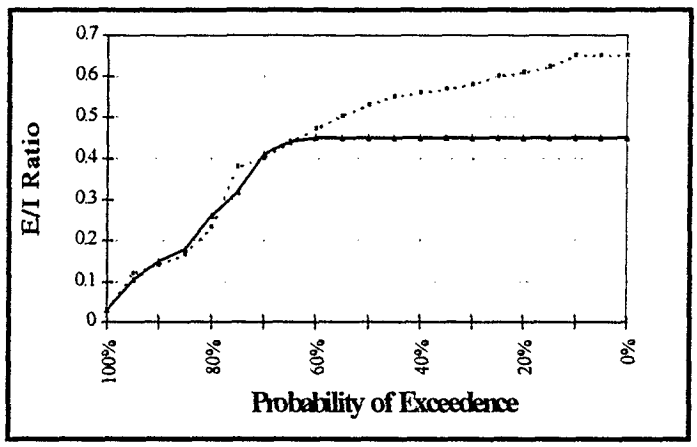
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

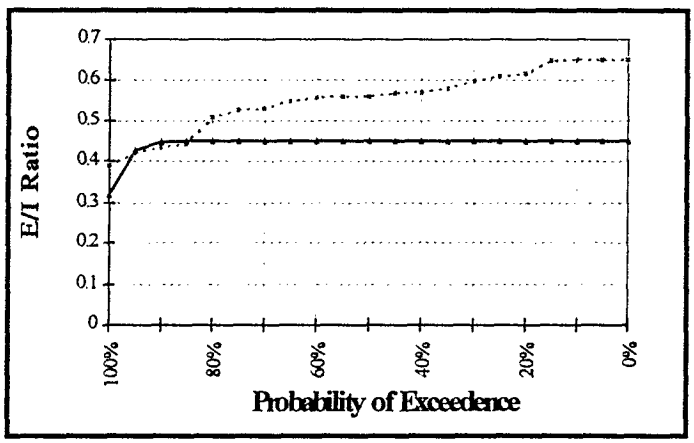
DECEMBER

Comparison of Computed Export Ratios

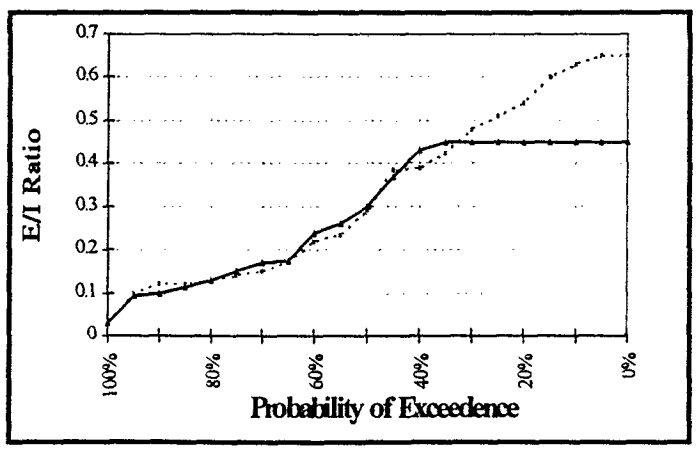
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



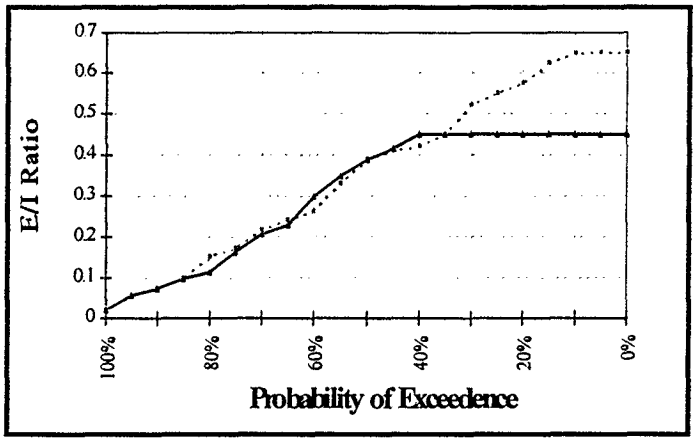
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

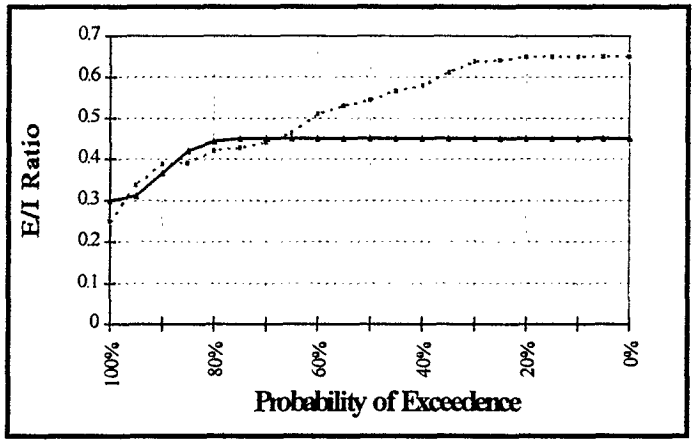
JANUARY

Comparison of Computed Export Ratios

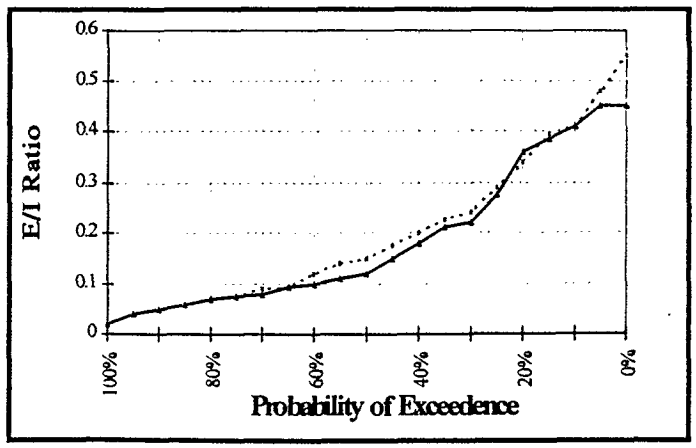
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



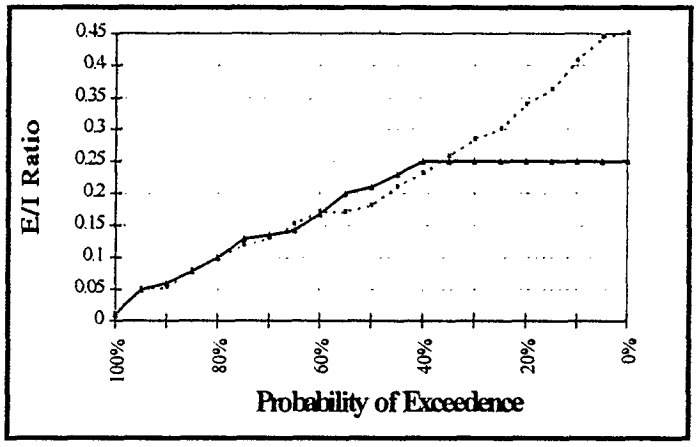
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

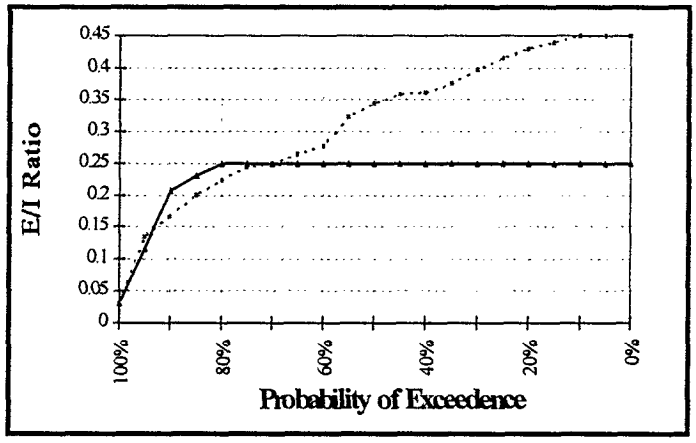
FEBRUARY

Comparison of Computed Export Ratios

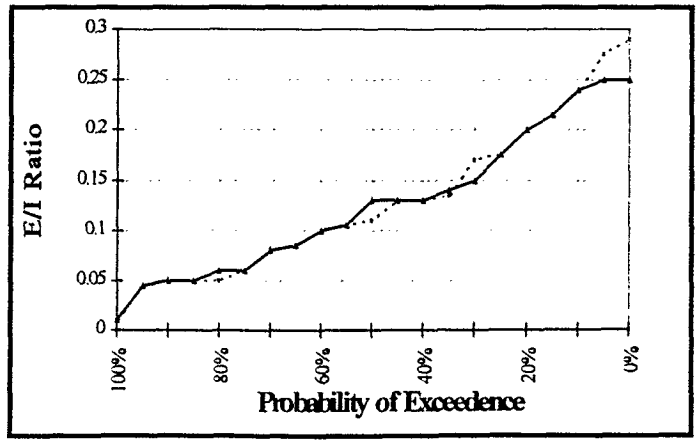
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



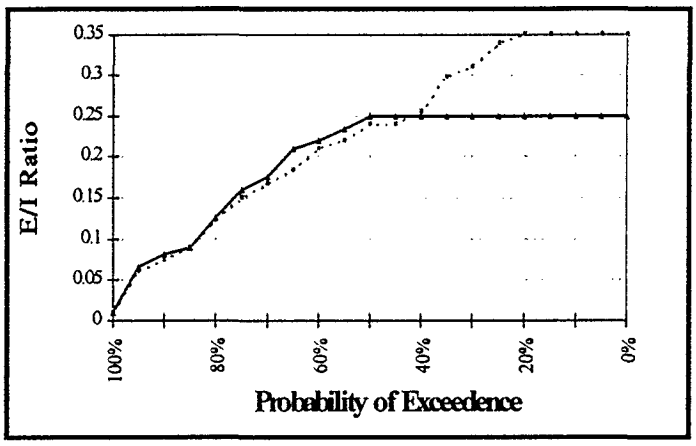
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

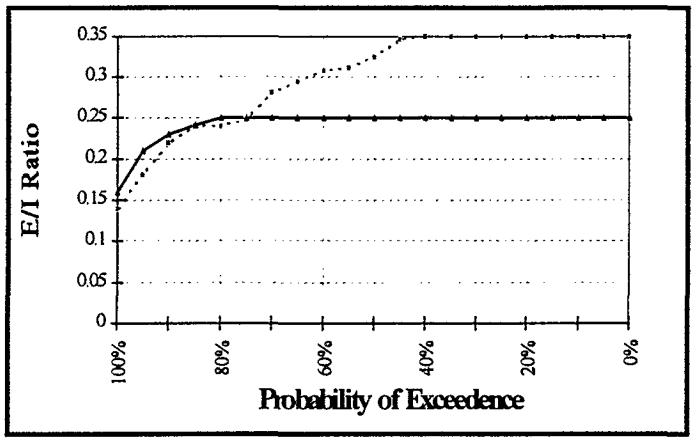
MARCH

Comparison of Computed Export Ratios

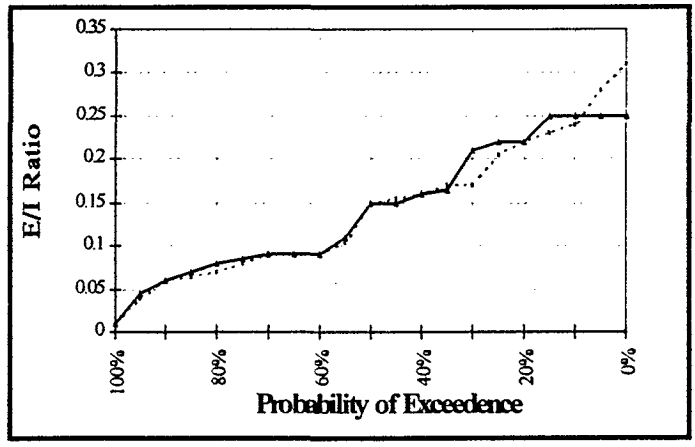
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



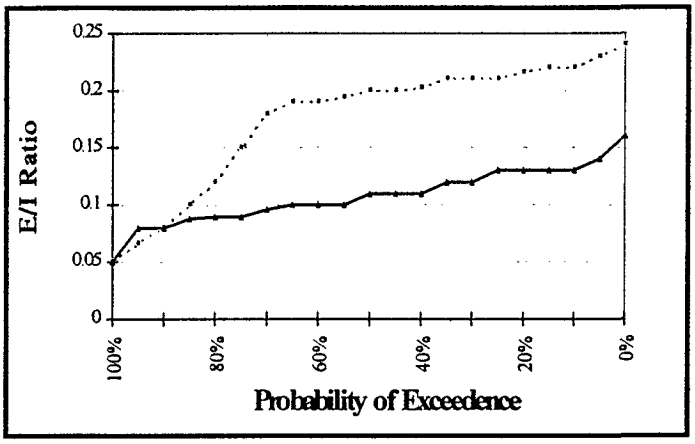
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

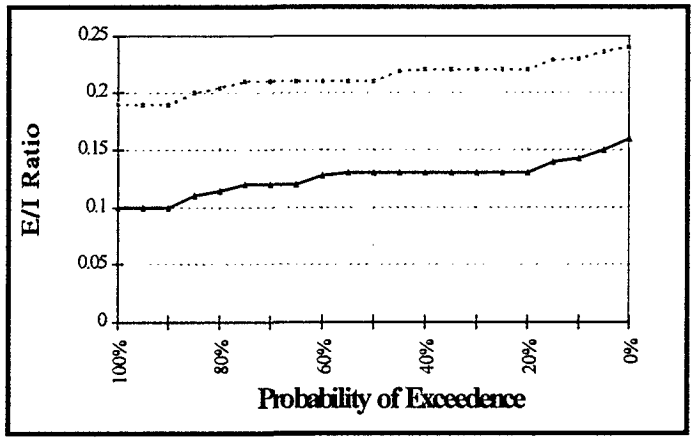
APRIL

Comparison of Computed Export Ratios

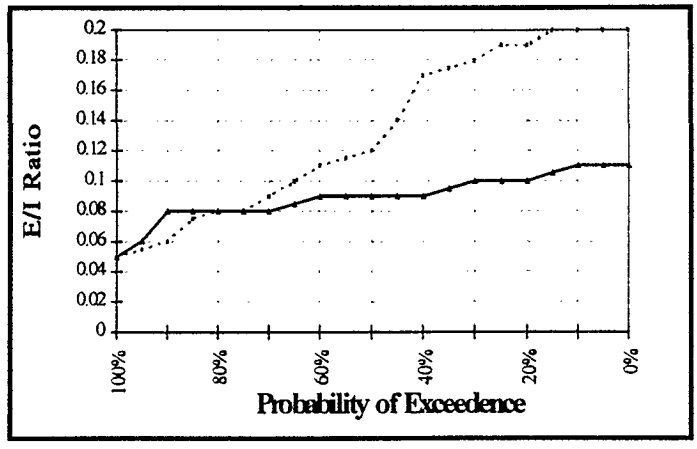
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



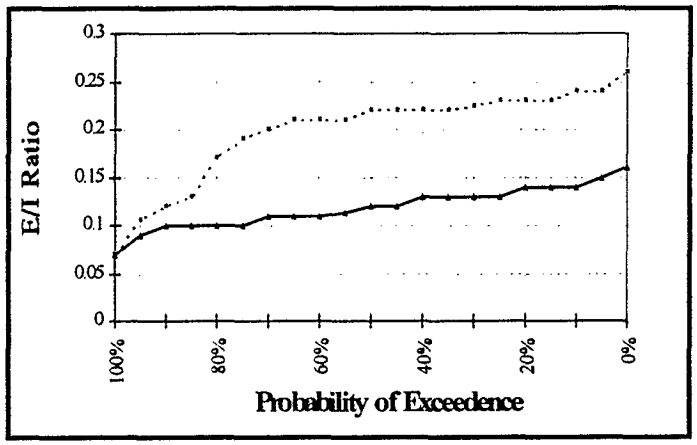
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov), .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

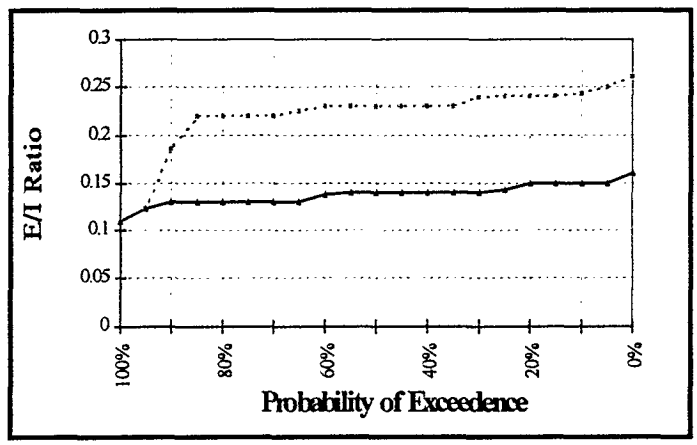
MAY

Comparison of Computed Export Ratios

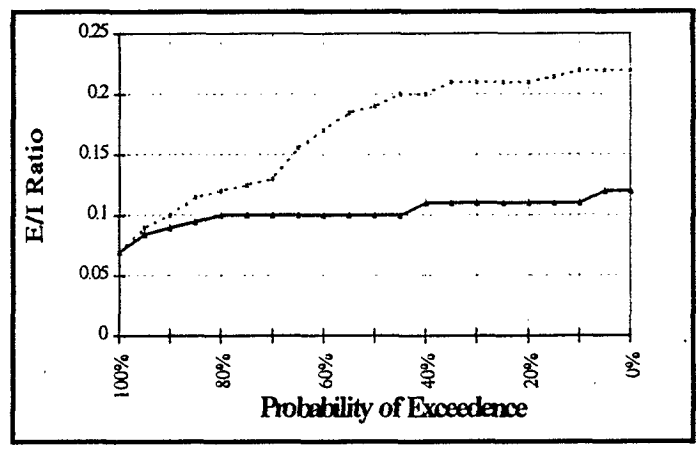
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



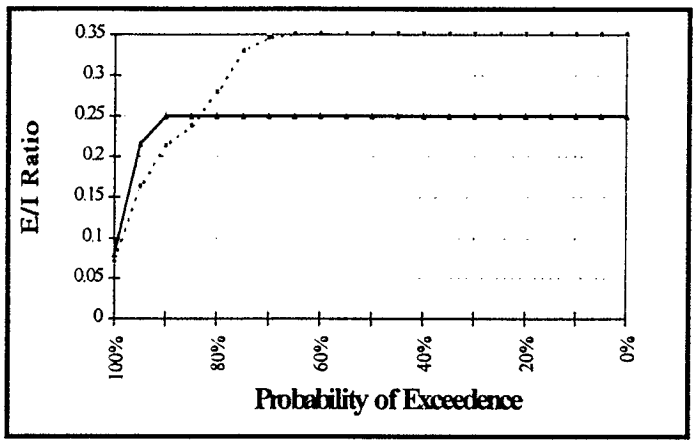
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

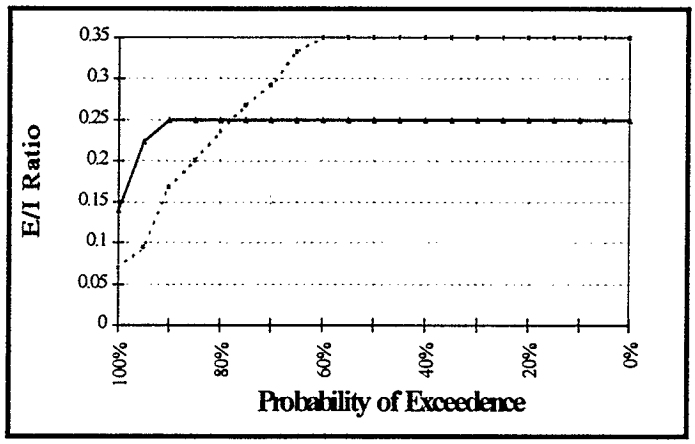
JUNE

Comparison of Computed Export Ratios

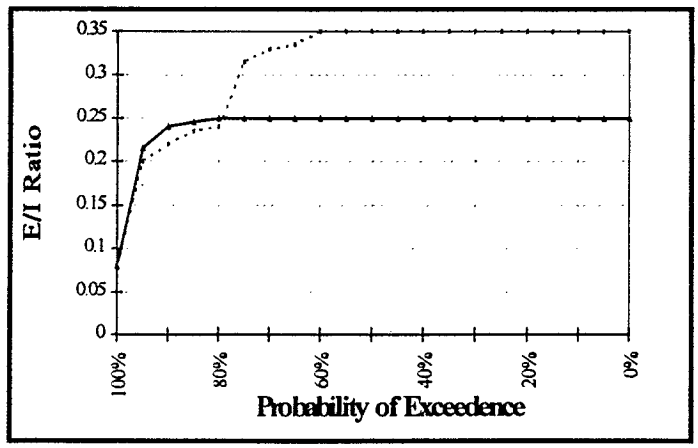
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



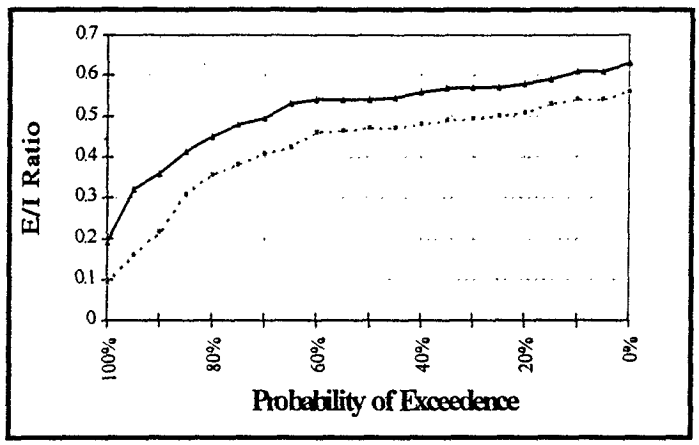
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

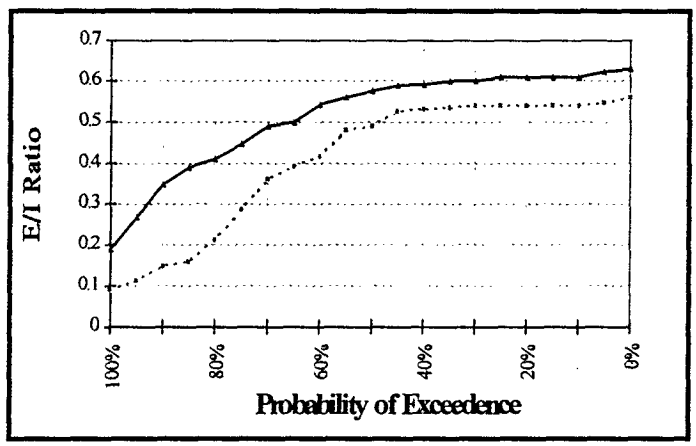
JULY

Comparison of Computed Export Ratios

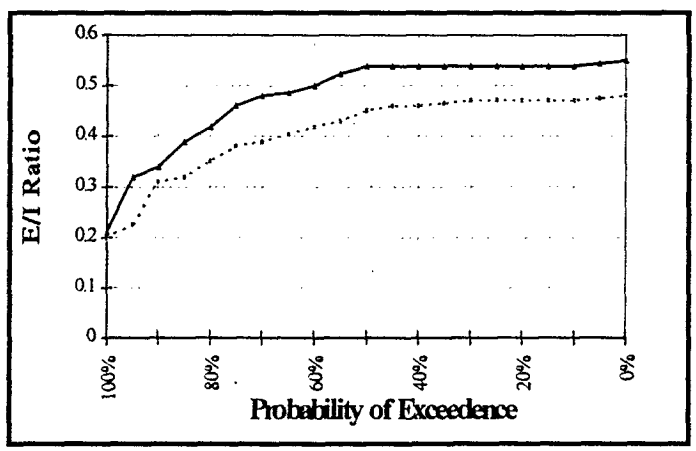
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



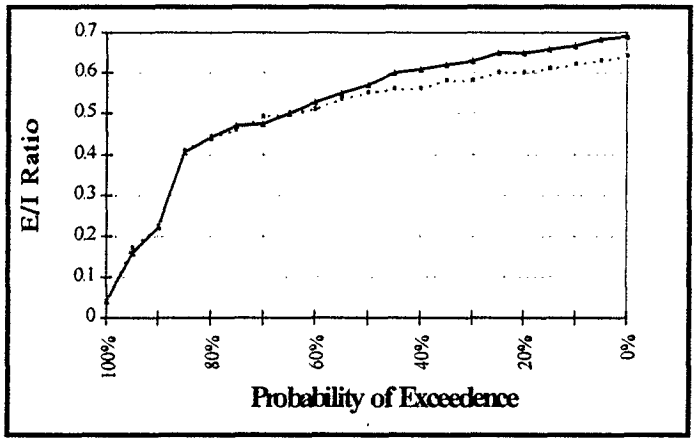
Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)

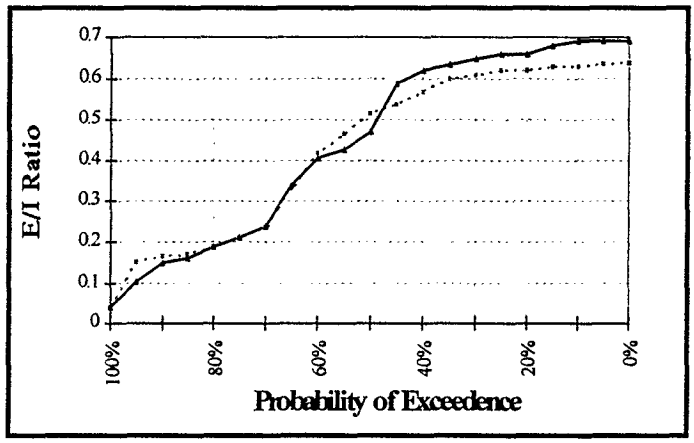
AUGUST

Comparison of Computed Export Ratios

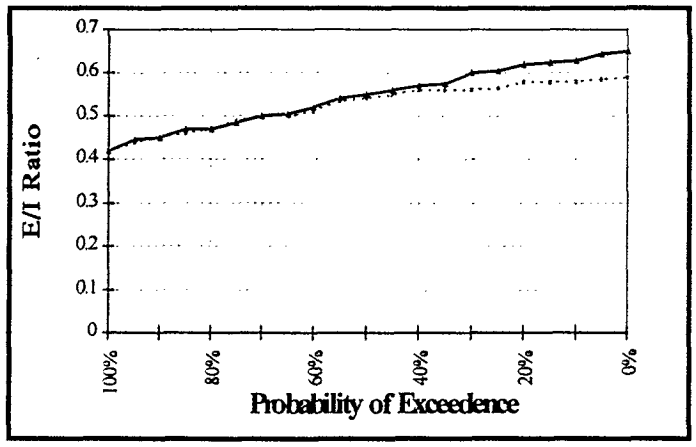
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



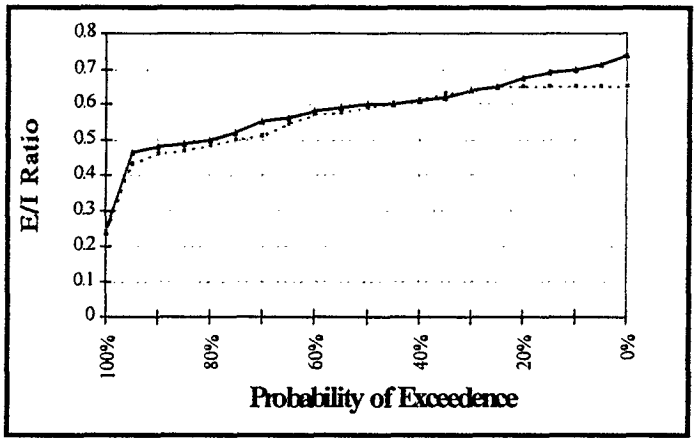
Existing Conditions
(1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun)
+ .55 E/I (Nov) , .45 E/I (Dec & Jan)
+ .75 E/I (Aug & Sep)

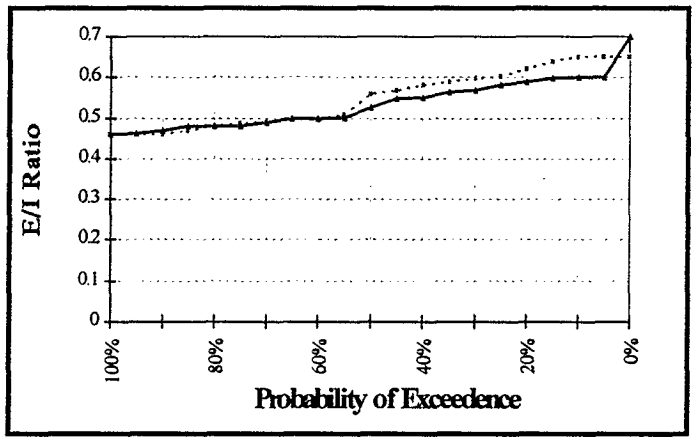
SEPTEMBER

Comparison of Computed Export Ratios

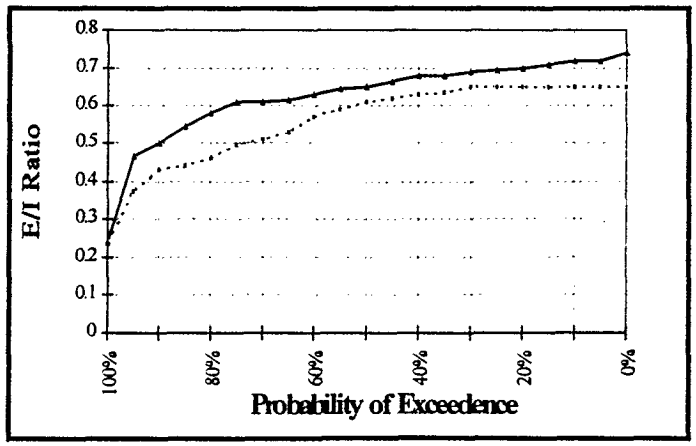
LONG TERM (73 YEAR AVERAGE)



DRY AND CRITICAL WATER YEARS



ABOVE NORMAL AND WET YEARS



Existing Conditions (1995 Level of Demand)

Base + ISDP + Vamp + .25 E/I (Feb - Jun) + .55 E/I (Nov) , .45 E/I (Dec & Jan) + .75 E/I (Aug & Sep)