Diversion Effects on Delta Smelt: Existing Conditions WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2	0

Diversion Effects on Delta Smelt: Existing Conditions DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Food supply	0	-1	-1	-1	-2	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	-2	-2	-3	-3	-2	0

Diversion Effects on Delta Smelt: No Action Conditions WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2	0

Diversion Effects on Delta Smelt: No Action Conditions DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Food supply	0	-1	-2	-2	-2	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-1	0	0	1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	-1	-1	-3	-3	-3	-3	-2	0

Diversion Effects on Delta Smelt: Common Programs WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1

Diversion Effects on Delta Smelt: Common Programs DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Food supply	1	0	0	0	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	2	2	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 1 — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 1 — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-1	0	0	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 2 — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Predation	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 2 — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Predation	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Handling	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	0	0	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-2	-1	-1	0	-2	-2	-1	-1	-1
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 3 — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	1	1	2	2	2	2	3	3	2	1	1	1
Hydrodynamics	1	1	1	2	3	3	3	3	1	1	1	1
Predation	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	2	1	1	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2	-1
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2	1

Diversion Effects on Delta Smelt: Alternative 3 — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	1	1	1	1	2	2	3	3	2	1	1	1
Hydrodynamics	1	1	0	0	0	-1	2	2	2	2	2	1
Predation	0	0	0	0	0	1	1	1	1	1	0	0
Handling	1	1	1	1	2	2	3	3	2	1	1	1
Food supply	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	1	1	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	-1	-1	-1	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	-1	-1	-1	-3	-2	-2	-1	-3	-3	-2	-1	-1
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	1

Net Effects Matrices with Common Programs Included

Net Effects Matrices with Common Programs Included

Net Effects Matrices with Common Programs Included
No Action Conditions - Existing
WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	-3
Total	0	0	0	-1	-3	-4	-1	-3	-1	-4	-3	0	-19

Net Effects Matrices with Common Programs Included
No Action Conditions - Existing
DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0	-2
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-4
Total	0	0	-6	-6	-5	-5	-1	-1	0	0	0	0	-26

Net Effects Matrices with Common Programs Included
Common Programs - Existing
WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	1	3	4	4	4	1	23
Total	2	2	3	3	4	5	5	7	6	5	5	2	49

Net Effects Matrices with Common Programs Included
Common Programs - Existing
DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	2	2	1	1	17
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	0	0	0	0	10
Water quality (toxicants)	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	4	4	5	5	4	1	29
Total	3	2	3	4	5	6	9	9	8	8	6	3	66

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Net Effects Matrices with Common Programs Included
Alternative 1 - Existing
WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	16
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20
Total	2	2	3	2	1	2	4	4	6	1	2	2	30

Net Effects Matrices with Common Programs Included
Alternative 1 - Existing
DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-7
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-5
Food supply	1	1	0	0	1	2	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	0	0	0	0	10
	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-5
Agricultural diversions	1	1	1	1	0	0	3	3	5	5	4	1	25
Total	3	2	3	2	-1	0	6	8	8	8	6	3	40

Net Effects Matrices with Common Programs Included
Alternative 2 - Existing
WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	0	-7
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Handling	0	0	0	0	0	0	0	0	0	0	0	0	-10
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	16
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	8
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20
Total	2	2	0	-1	-1	0	0	1	3	-1	-2	2	8

Net Effects Matrices with Common Programs Included
Alternative 2 - Existing
DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Hydrodynamics	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Predation	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Handling	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Food supply	1	1	0	0	1	2	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	1	1	0	0	0	0	0	0	0	0	2
Water quality (toxicants)	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-2	-2	-2	-1	-1	-1	0	0	0	-10
Agricultural diversions	1	1	1	1	0	0	3	3	5	5	4	1	25
Total	3	2	-7	-7	-5	-3	-1	5	7	8	6	-3	10

Net Effects Matrices with Common Programs Included
Alternative 3 - Existing
WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	3	3	4	6	4	3	2	1	34
Hydrodynamics	1	1	2	3	4	4	4	4	2	2	2	1	30
Predation	0	0	1	1	1	1	1	1	1	1	1	0	19
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	15
Shallow/ nearshore habitat	0	0	2	2	3	3	3	3	2	1	1	0	20
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	1	1	1	1	1	0	0	2	4	4	4	1	20
Total	4	5	10	10	12	13	14	18	14	11	10	4	124

Net Effects Matrices with Common Programs Included
Alternative 3 - Existing
DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	1	1	2	2	3	4	5	6	5	4	3	1	37
Hydrodynamics	1	1	1	1	1	1	4	5	5	5	4	1	30
Predation	0	0	1	1	1	3	3	4	4	4	2	0	23
Handling	1	1	2	2	3	4	5	6	5	4	3	1	37
Food supply	1	1	0	0	1	2	2	2	2	2	1	1	15
Shallow/ nearshore habitat	0	0	2	2	3	3	3	3	1	1	1	0	19
Water quality (toxicants)	1	0	0	1	1	1	1	1	1	1	1	1	10
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-3	-3	-3	-2	-2	-2	-1	0	0	-17
Agricultural diversions	1	1	1	1	0	0	3	3	5	5	4	1	26
Total	6	5	10	7	10	15	24	28	26	25	19	6	179

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Alternative Matrices WITHOUT Common Programs
Alternative 1 - Common Programs — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	-8
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	-3
Total	0	0	0	-1	-3	-3	-1	-3	-1	-4	-3	0	-19

Alternative Matrices WITHOUT Common Programs
Alternative 1 - Common Programs — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-6
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0	-2
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0	-4
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-4
Total	0	0	-6	-6	-6	-6	-1	-1	0	0	0	0	-26

Alternative Matrices WITHOUT Common Programs
Alternative 2 - Common Programs — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	0	-7
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-10
Predation	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-12
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	-1	-1	-1	-1	-1	0	0	0	-5
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-5
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	-3
Total	0	0	-3	-4	-5	-6	-5	-6	-3	-6	-4	0	-61

Alternative Matrices WITHOUT Common Programs
Alternative 2 - Common Programs — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Hydrodynamics	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Predation	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Handling	0	0	-2	-2	-2	-1	-1	0	0	0	0	0	-8
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0	-2
Shallow/ nearshore habitat	0	0	0	0	-2	-2	-2	-2	0	0	0	0	-8
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-2	-2	-2	-1	-1	-1	0	0	0	-10
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-4
Total	0	0	-10	-11	-13	-9	-8	-7	-1	0	0	0	-68

Alternative Matrices WITHOUT Common Programs
Alternative 3 - Common Programs — WET YEARS

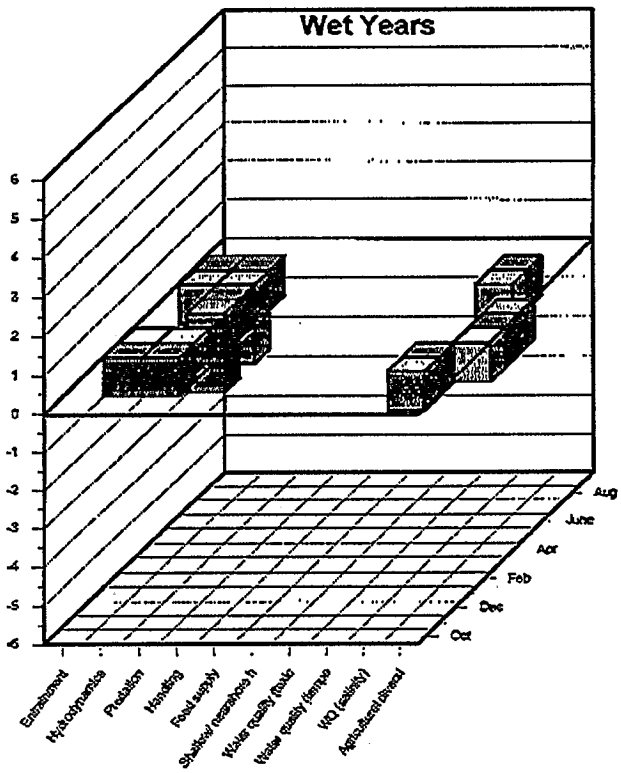
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	3	3	4	6	4	3	2	1	34
Hydrodynamics	1	1	2	3	4	4	4	4	2	2	2	1	30
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
Handling	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	1	1	1	0	9
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	-4
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	-3
Total	2	2	7	6	9	8	9	11	8	6	5	2	76

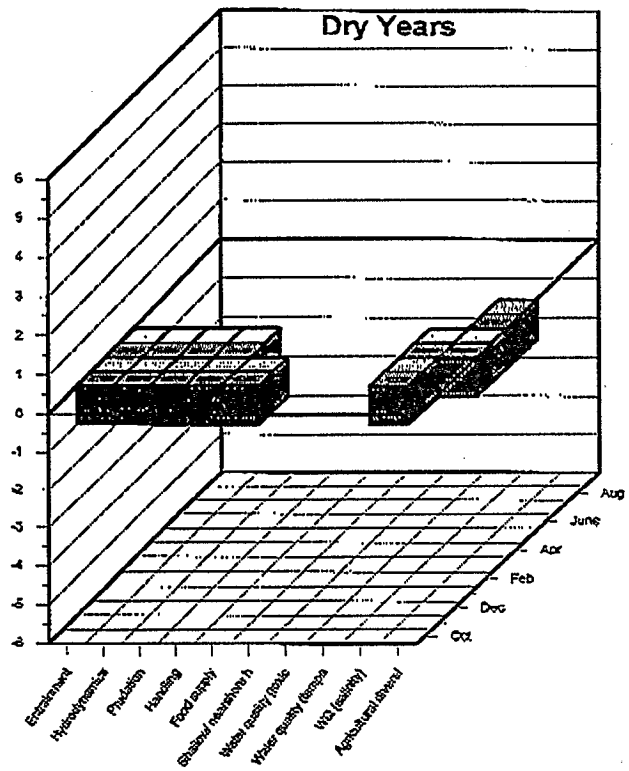
Alternative Matrices WITHOUT Common Programs
Alternative 3 - Common Programs — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	2	2	3	4	5	6	5	4	3	1	37
Hydrodynamics	1	1	1	1	1	1	4	5	5	6	4	1	40
Predation	0	0	1	1	1	3	3	4	4	4	2	0	23
Handling	1	1	2	2	3	4	5	6	5	4	3	1	37
Food supply	0	0	-1	-1	0	0	0	0	0	0	0	0	-2
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	1	1	1	0	9
Water quality (toxicants)	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	-1	-3	-3	-3	-2	-2	-2	-1	0	0	-17
Agricultural diversions	0	0	0	0	-1	-1	-1	-1	0	0	0	0	-4
Total	3	3	6	3	5	9	15	19	18	17	13	3	114

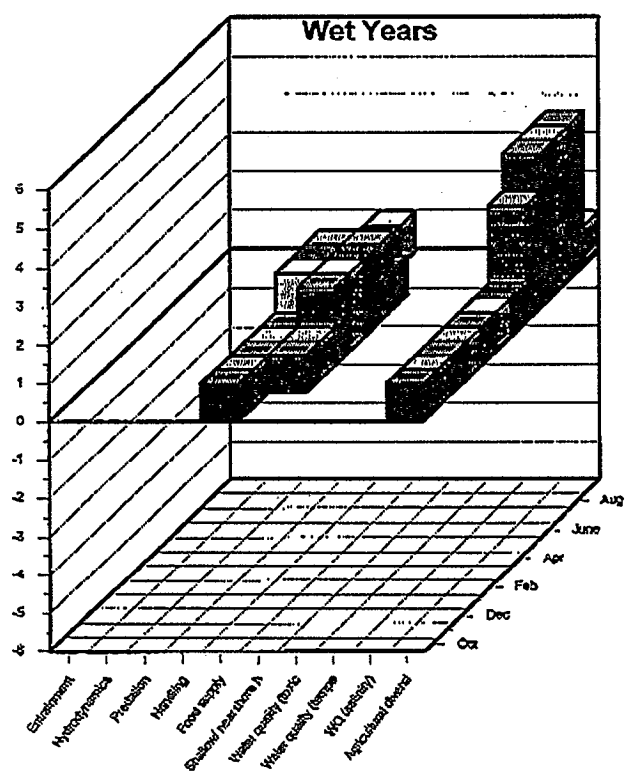
Net Effects Matrices for Delta Smelt

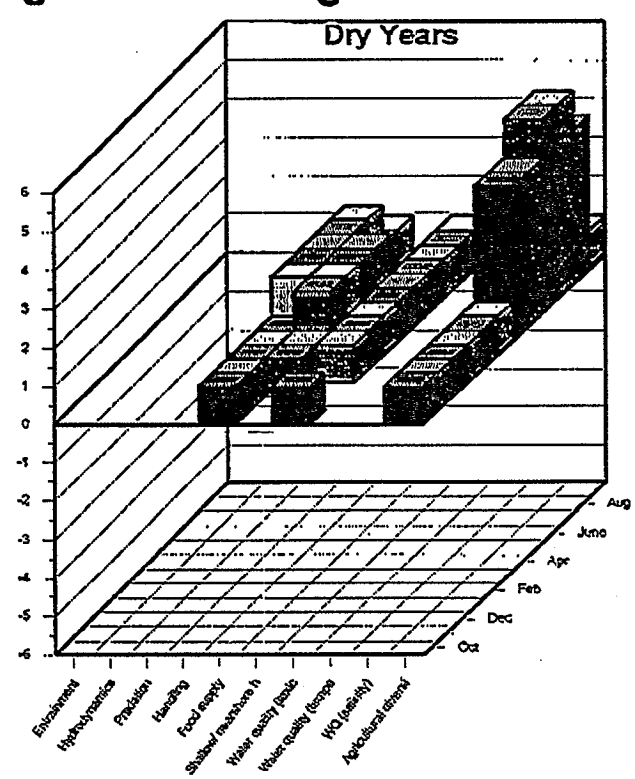
No Action Alternative - Existing





Common Programs - Existing

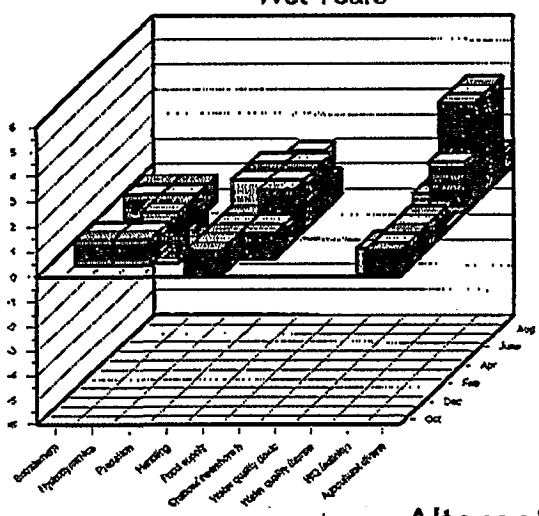




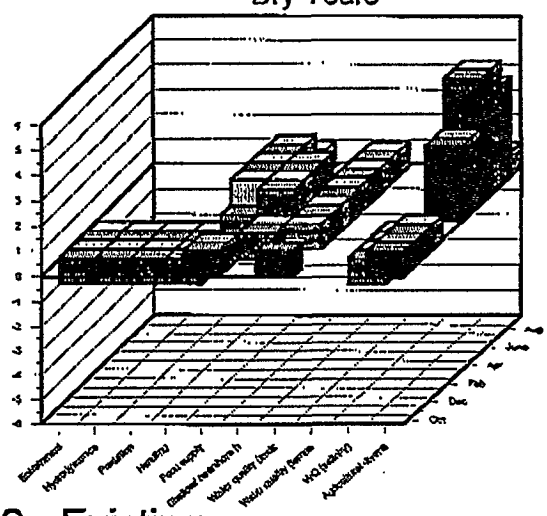
Net Effects Matrices for Delta Smelt

Alternative 1 - Existing

Wet Years

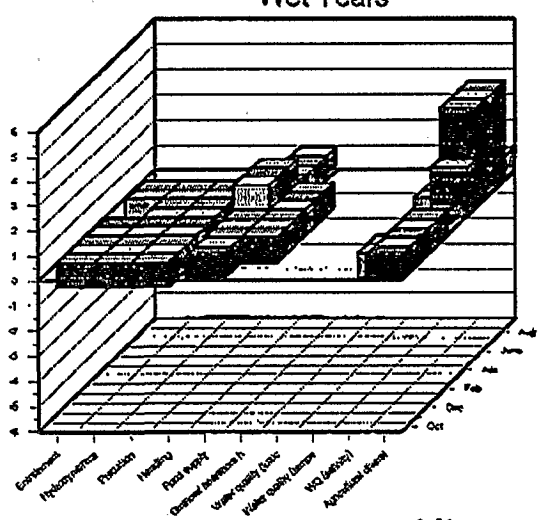


Dry Years

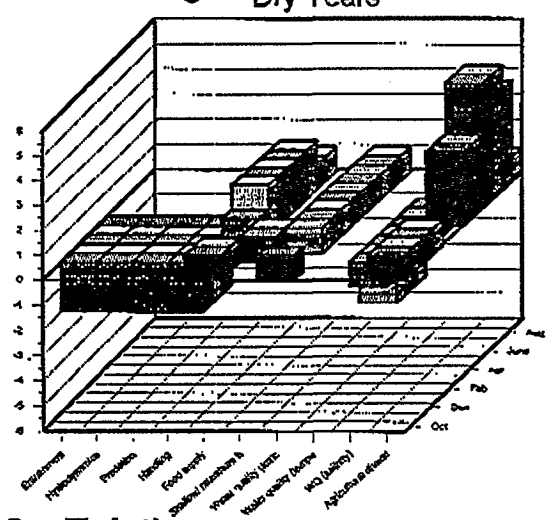


Alternative 2 - Existing

Wet Years

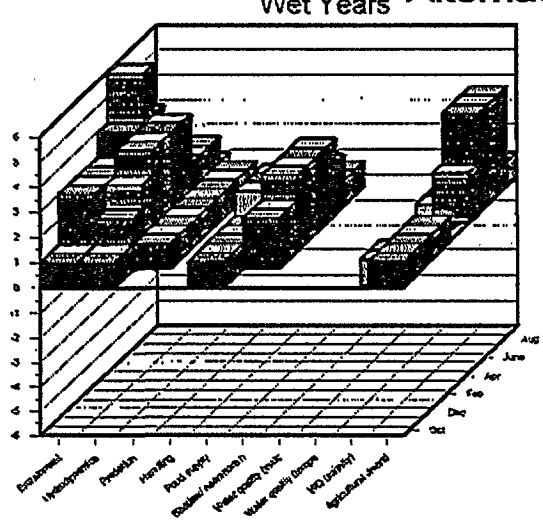


Dry Years



Alternative 3 - Existing

Wet Years



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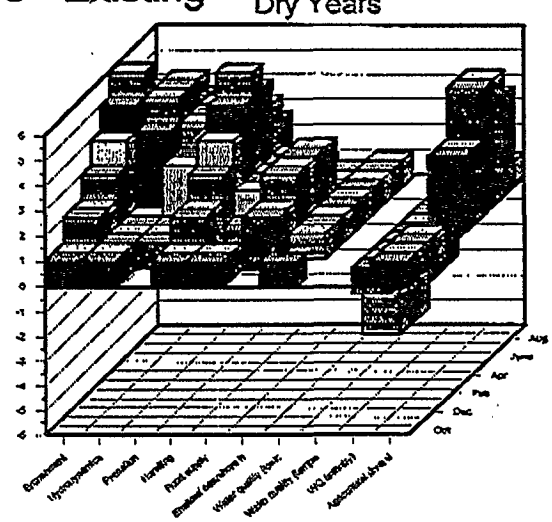
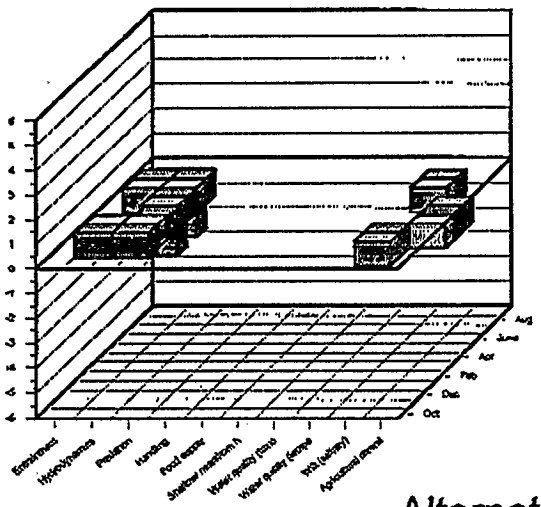


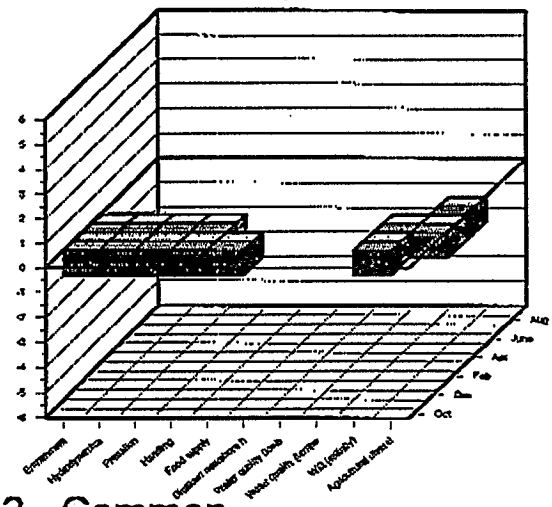
Alternative Matrices Less Common Programs

Alternative 1 - Common

Wet Years

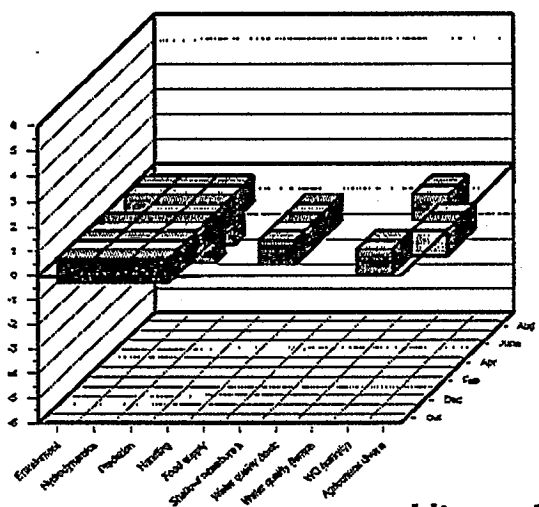


Dry Years

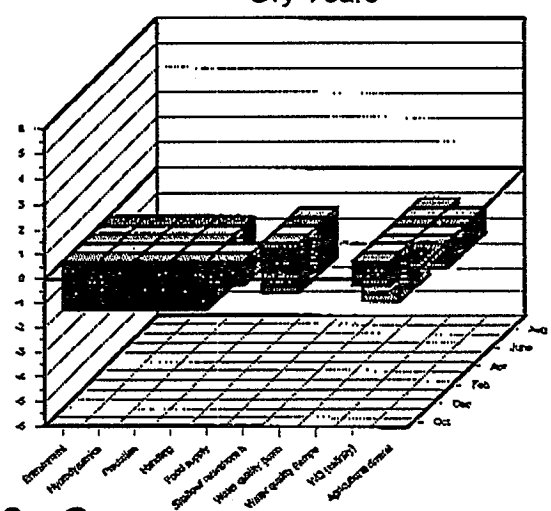


Alternative 2 - Common

Wet Years

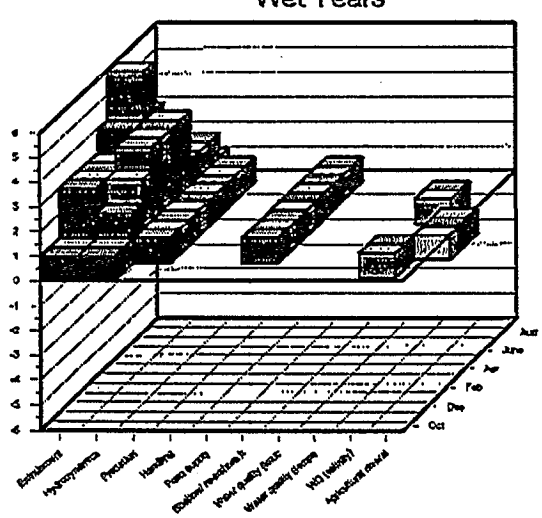
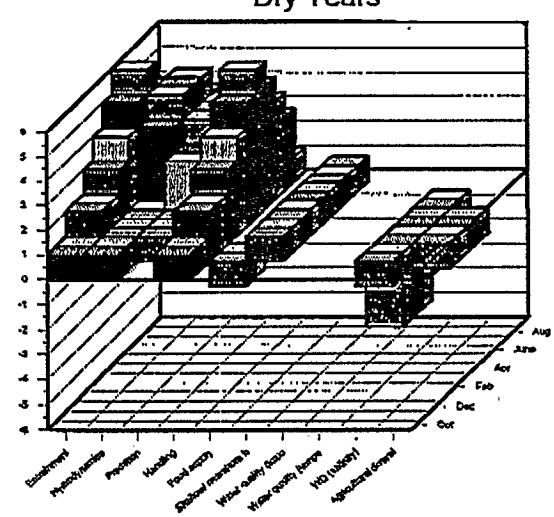


Dry Years



Alternative 3 - Common

Wet Years



Dry Years