2912

D-062032

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	-2	-3	-2	-2	-1	0
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
Salinity/X2	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
Entrainment (export)	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	-1	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-2	0
Food supply	0	-1	-1	-1	-1	-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
Salinity/X2	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	-1	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	-2	-3	-2	-3	-2	0
Entrainment (export)	0	0	-1	-1	-2	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-1	-2	-1	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-2	-2	-2	-2	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	-1	-1	-1	0	0	0	-1	-1	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
Salinity/X2	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: 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
Entrainment (export)	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-2	-2	-1	-1	-1	-2	-2	-2	-1	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
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: Common Programs WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Food supply	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-1
Shallow/ nearshore habitat	0	0	0	0	-1	-1	-1	-1	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	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
Entrainment (export)	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1
Agricultural diversions	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-1

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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	-2	-3	-2	-3	-2	0
Entrainment (export)	0	0	-1	-1	-2	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-1	-2	-1	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-2	-2	-2	-2	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	-1	-1	-1	0	0	0	-1	-1	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
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: 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
Entrainment (export)	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-2	-2	-1	-1	-1	-2	-2	-2	-1	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	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
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-1	-1	0
CCF predation	0	0	-1	-1	-2	-2	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-2	-1	0	0
Hydrodynamics	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Cross -Delta Flow	0	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-2	-2	-2	-2	-2	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
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: 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
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-3	-3	-2	0
CCF predation	0	0	-1	-1	-2	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	0	0	0	0	0	0	-1	-1	-1	0
Old River @Bacon Island	0	0	-1	-2	-2	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	-2	-2	-2	-2	-1	-1	-2	-2	-1	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	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	0	0	1	1	1	1	2	2	1	1	1	0
Entrainment (export)	0	0	1	1	1	1	2	2	1	1	1	0
CCF predation	0	0	1	1	1	1	2	2	1	1	1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	1	2	2	2	2	2	1	1	1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	1	1	1	1	1	1	1	1	1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	1	1	1	1	1	1	1	1	1	0
Predation	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
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: Alternative 3 — DRY YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	1	1	2	2	2	3	2	2	1	1
Entrainment (export)	0	0	1	1	2	2	2	3	2	2	1	1
CCF predation	0	0	1	1	2	2	2	3	2	2	1	1
Handling	0	0	0	0	0	-1	-1	-2	-2	-2	-1	0
Hydrodynamics	0	0	0	0	1	1	1	1	1	1	1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	1	1	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	0	0	1	1	1	1	1	0	0	0
Sac River @ Rio Vista	0	0	-1	-1	-1	-1	-1	0	-1	0	0	0
SJ River @ Antioch	0	0	1	1	1	1	1	1	1	1	1	0
Predation	0	0	0	0	0	1	1	1	1	1	0	0
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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	0	0	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1

D-062033
D-062033

Net Effects Matrices with Common Programs included

D-062034

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	-1	-1	-1	-1	0	-6
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	-2	-2	0	-1	-1	-2	-2	0	-10

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	-6
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	0	0	-1	-1	-1	0	0	0	0	0	0	0	-5
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
WQ (salinity)	0	0	0	0	2	0	0	0	0	0	0	0	2
Agricultural diversions	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	0	0	-3	-3	0	-2	0	0	0	0	0	0	-8

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
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
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
Food supply	1	1	1	1	0	2	2	2	2	2	1	1	16
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
WQ (salinity)	0	0	0	0	2	0	0	0	0	0	0	0	2
Agricultural diversions	1	1	1	1	2	1	3	4	5	5	4	1	29
Total	3	2	3	4	7	6	8	9	8	8	6	3	67

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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	-1	-1	-1	-1	0	-6
Predation	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
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	2	3	5	6	5	3	3	2	39

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	-6
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	0	0	0	2	2	2	2	2	1	1	14
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
WQ (salinity)	0	0	0	0	2	0	0	0	0	0	0	0	2
Agricultural diversions	1	1	1	1	2	1	3	4	5	5	4	1	29
Total	3	2	0	1	5	4	8	9	8	8	6	3	57

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	0	0	0	-1	-1	0	-8
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	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	1	1	1	1	0	0	0	0	6
Water quality (toxicants)	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	1	1	1	2	3	4	4	2	3	2	27

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	0	0	0	-1	0	0	0	0	0	0	-1
Food supply	1	1	0	0	0	2	2	2	2	2	1	1	14
Shallow/ nearshore habitat	0	0	1	1	1	1	1	1	0	0	0	0	2
Water quality (toxicants)	1	0	0	1	1	1	1	1	1	1	1	1	10
WQ (salinity)	0	0	0	0	2	0	0	0	0	0	0	0	2
Agricultural diversions	1	1	1	1	2	1	3	4	5	5	4	1	29
Total	3	2	-2	-1	1	1	4	7	8	8	6	3	40

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	0	0	2	2	2	2	4	5	3	3	2	0	25
Hydrodynamics	0	0	2	3	3	3	3	3	2	2	2	0	23
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
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
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	9	10	11	12	14	17	13	12	11	2	115

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	0	0	2	2	3	4	4	6	5	5	3	1	35
Hydrodynamics	0	0	1	1	2	3	3	4	4	4	3	0	25
Predation	0	0	1	1	1	2	3	3	3	3	2	0	19
Food supply	1	1	0	0	0	2	2	2	2	2	1	1	14
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
WQ (salinity)	0	0	0	0	2	0	0	0	0	1	1	0	4
Agricultural diversions	1	1	1	1	2	1	3	4	5	5	4	1	29
Total	3	2	7	8	14	16	19	23	21	22	16	4	155

D-062035

D-062035

Alternative Matrices WITHOUT Common Programs

D-062036

D—062036

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	-1	-1	-1	-1	0	-6
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	-2	-2	0	-1	-1	-2	-2	0	-10

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	0	0	0	0	0	0	0	0	0	0	0
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-3	-3	-2	-2	0	0	0	0	0	0	-10

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	0	0	0	-1	-1	0	-6
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-2	-2	-3	-3	-2	-3	-2	-3	-2	0	-22

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	0	0	0	-1	0	0	0	0	0	0	-1
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-5	-5	-6	-5	-4	-2	0	0	0	0	-27

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	0	0	2	2	2	2	4	5	3	3	2	0	25
Hydrodynamics	0	0	2	3	3	3	3	3	2	2	2	0	23
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	6	7	7	7	9	10	7	7	6	0	66

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	0	0	2	2	3	4	4	6	5	5	3	1	35
Hydrodynamics	0	0	1	1	2	3	3	4	4	4	3	0	25
Predation	0	0	1	1	1	2	3	3	3	3	2	0	19
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	1	1	0	2
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4	4	7	10	11	14	13	14	10	1	88

D-062037

D—062037

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	-2	-3	-2	-2	-1	0
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
Salinity/X2	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
Entrainment (export)	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
Salinity/X2	-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	-2	-3	-2	-3	-2	0
Entrainment (export)	0	0	-1	-1	-2	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-1	-2	-1	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-2	-2	-2	-2	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	-1	-1	-1	0	0	0	-1	-1	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
Salinity/X2	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: 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
Entrainment (export)	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-2	-2	-1	-1	-1	-2	-2	-2	-1	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
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: Common Programs WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
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
Entrainment (export)	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1

D—062038

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	-2	-3	-2	-3	-2	0
Entrainment (export)	0	0	-1	-1	-2	-1	-2	-3	-2	-2	-1	0
CCF predation	0	0	-1	-1	-1	-1	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-1	-2	-1	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-2	-2	-2	-2	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	-1	-1	-1	0	0	0	-1	-1	0
Old River @Bacon Island	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
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: 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
Entrainment (export)	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
CCF 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
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Old River @Bacon Island	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	0	0	0	0	-1	-2	-2	-2	-1	0
SJ River @ Antioch	0	0	-2	-2	-1	-1	-1	-2	-2	-2	-1	0
Predation	0	0	-1	-1	-1	-1	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	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
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-2	-1	-1	0
CCF predation	0	0	-1	-1	-2	-2	-2	-3	-2	-2	-1	0
Handling	0	0	0	0	-1	-1	-1	-2	-2	-1	0	0
Hydrodynamics	0	0	-2	-2	-2	-2	-2	-3	-2	-3	-2	0
Cross -Delta Flow	0	0	-2	-2	-2	-2	-2	-2	-2	-2	-2	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	-1	-2	-2	-2	-2	-2	-1	-1	-1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	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
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: 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
Entrainment (export)	0	0	-1	-1	-1	-1	-2	-3	-3	-3	-2	0
CCF predation	0	0	-1	-1	-2	-2	-2	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-2	0
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Cross -Delta Flow	0	0	-2	-2	-2	-2	-2	-3	-3	-3	-2	0
Qwest	0	0	0	0	0	0	0	0	-1	-1	-1	0
Old River @Bacon Island	0	0	-1	-2	-2	-2	-2	-3	-3	-3	-2	0
Sac River @ Rio Vista	0	0	-2	-2	-2	-2	-1	-1	-2	-2	-1	0
SJ River @ Antioch	0	0	0	0	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-2	-2	-2	-2	-2	-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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	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	0	0	1	1	1	1	2	2	1	1	1	0
Entrainment (export)	0	0	1	1	1	1	2	2	1	1	1	0
CCF predation	0	0	1	1	1	1	2	2	1	1	1	0
Handling	0	0	0	0	0	0	-1	-2	-1	-1	0	0
Hydrodynamics	0	0	1	2	2	2	2	2	1	1	1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	0	0	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	1	1	1	1	1	1	1	1	1	0
Sac River @ Rio Vista	0	0	0	0	0	0	0	0	0	0	0	0
SJ River @ Antioch	0	0	1	1	1	1	1	1	1	1	1	0
Predation	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	1	1	1	0
Water quality (toxicants)	0	0	0	0	0	0	-1	-1	-1	-1	-1	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: Alternative 3 — **DRY YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	0	0	1	1	2	2	2	3	2	2	1	1
Entrainment (export)	0	0	1	1	2	2	2	3	2	2	1	1
CCF predation	0	0	1	1	2	2	2	3	2	2	1	1
Handling	0	0	0	0	0	-1	-1	-2	-2	-2	-1	0
Hydrodynamics	0	0	0	0	1	1	1	1	1	1	1	0
Cross -Delta Flow	0	0	0	0	0	0	0	0	0	1	1	0
Qwest	0	0	0	0	0	0	0	0	0	0	0	0
Old River @Bacon Island	0	0	0	0	1	1	1	1	1	0	0	0
Sac River @ Rio Vista	0	0	-1	-1	-1	-1	-1	0	-1	0	0	0
SJ River @ Antioch	0	0	1	1	1	1	1	1	1	1	1	0
Predation	0	0	0	0	0	1	1	1	1	1	0	0
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
WQ (salinity)	-1	-1	0	0	1	1	1	-1	-1	0	0	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1

D-062039

D—062039

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	-1	-1	-1	-1	0	-6
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	-2	-2	0	-1	-1	-2	-2	0	-10

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	0	0	0	0	0	0	0	0	0	0	0
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-3	-3	-2	-2	0	0	0	0	0	0	-10

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
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
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
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	2	4	5	5	6	1	28
Total	3	2	3	4	5	6	8	9	8	8	8	3	65

D-062040

D-062040

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	-1	-1	-1	-1	0	-6
Predation	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
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	2	3	5	6	5	3	3	2	39

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	-4
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
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
Water quality (toxicants)	1	0	0	1	1	1	1	1	1	1	1	1	10
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	3	4	6	5	3	1	28
Total	3	2	0	1	3	5	8	9	8	8	6	3	55

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	0	0	0	-1	-1	0	-6
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	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	1	1	1	1	0	0	0	0	6
Water quality (toxicants)	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	1	1	1	2	3	4	4	2	3	2	27

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	0	0	0	-1	0	0	0	0	0	0	-1
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	3	4	5	5	4	1	28
Total	3	2	-2	-1	-1	1	1	7	8	8	6	3	38

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	0	0	2	2	2	2	4	5	3	3	2	0	25
Hydrodynamics	0	0	2	3	3	3	3	3	2	2	2	0	23
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
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
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	9	10	11	12	14	17	13	12	11	2	115

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	0	0	2	2	3	3	4	6	5	5	3	1	35
Hydrodynamics	0	0	1	1	2	3	3	4	4	4	3	0	25
Predation	0	0	1	1	1	2	3	3	3	3	2	0	19
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	1	1	0	2
Agricultural diversions	1	1	1	1	1	1	3	2	5	5	4	1	28
Total	3	2	7	8	12	16	19	23	21	22	16	4	153

D-062041

D-062041

Alternative Matrices WITHOUT Common Programs

D-062042

D—062042

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	-1	-1	-1	-1	0	-6
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	-2	-2	0	-1	-1	-2	-2	0	-10

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	-4
Predation	0	0	0	0	0	0	0	0	0	0	0	0	0
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-3	-3	-2	-2	0	0	0	0	0	0	-10

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	0	0	0	-1	-1	0	-6
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-2	-1	-2	-1	0	-11
Predation	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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-2	-2	-3	-3	-2	-3	-2	-3	-2	0	-22

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	0	0	0	-1	0	0	0	0	0	0	-1
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	-5	-5	-6	-5	-4	-2	0	0	0	0	-27

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	0	0	2	2	2	2	4	6	3	3	2	0	25
Hydrodynamics	0	0	2	5	3	3	3	6	2	2	2	0	23
Predation	0	0	1	1	1	1	1	1	1	1	1	0	9
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	6	7	7	7	9	10	7	7	5	0	66

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	0	0	2	2	3	4	7	6	5	5	3	1	35
Hydrodynamics	0	0	1	1	2	3	6	4	4	4	3	0	25
Predation	0	0	1	1	1	2	3	3	3	3	2	0	19
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
WQ (salinity)	0	0	0	0	0	0	0	0	0	1	1	0	2
Agricultural diversions	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4	4	7	10	11	14	13	14	10	1	88

D-062043

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Delta Smelt Diversion Effects Matrices

Diversion Effects on Delta Smelt: Existing Conditions — WET YEARS

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

Diversion Effects on Delta Smelt: No Action Conditions — WET YEARS

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	0	0	-1	-1	-2	-2	-1	-3
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3

D-062044
D—062044

Predation	0	0	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1
Water quality (toxicants)	0	0	0	0	0	0	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0
Agricultural diversions	0	0	0	0	0	-1	-1	-2

Diversion Effects on Delta Smelt: Common Programs **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	0	0	-1	-1	-1	-1	-1	-3
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1
Predation	0	0	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1
Water quality (toxicants)	0	0	0	0	0	0	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0

D-062045

D-062045

WQ (salinity)	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	1	2

Diversion Effects on Delta Smelt: Alternative 1 **WET YEARS**

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

Diversion Effects on Delta Smelt: Alternative 2 **WET YEARS**

D-062046

D-062046

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

Diversion Effects on Delta Smelt: Alternative 3 **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	1	1	2	2	2	2	3	3
Hydrodynamics	1	1	1	2	3	3	3	3
Predation	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2

D-062047

D-062047

Shallow/ nearshore habitat	0	0	1	1	2	2	2	2
Water quality (toxicants)	0	0	0	0	0	0	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0
Agricultural diversions	1	1	1	1	1	0	0	1

D-062048

D-062048

D-062049

Diversion Effects on Delta Smelt: Existing Condi

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

Diversion Effects on Delta Smelt: No Action Con

June	July	Aug	Sep		Oct	Nov	Dec
-2	-3	-2	0	Entrainment	0	0	-2
-2	-3	-2	0	Hydrodynamics	0	0	-2

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-1	-1	-1	0
0	0	0	0
0	0	0	0
0	0	0	0
-1	-1	-1	0
0	0	0	0
0	-2	-2	-1
-2	-2	-2	0

Predation	0	0	-2
Handling	0	0	-2
Food supply	0	-1	-2
Shallow/ nearshore habitat	0	0	-1
Water quality (toxicants)	-1	0	0
Water quality (temperature)	0	0	0
WQ (salinity)	-1	-1	-1
Agricultural diversions	0	0	0

June	July	Aug	Sep
-2	-2	-1	0
-1	-1	-1	0
-1	-1	-1	0
0	0	0	0
1	1	1	1
1	0	0	0
-1	-1	-1	0
0	0	0	0

Diversion Effects on Delta Smelt: Common Prog

	Oct	Nov	Dec
Entrainment	0	0	-1
Hydrodynamics	0	0	-1
Predation	0	0	-1
Handling	0	0	-1
Food supply	1	0	0
Shallow/ nearshore habitat	0	0	0
Water quality (toxicants)	0	0	0
Water quality (temperature)	0	0	0

D-062050
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0	-1	-1	-1
2	2	2	1

WQ (salinity)	-1	-1	0
Agricultural diversions	1	1	1

Diversion Effects on Delta Smelt: Alternative 1

June	July	Aug	Sep
-2	-3	-2	0
-2	-3	-2	0
-1	-1	-1	0
0	0	0	0
1	1	1	1
1	0	0	0
-1	-1	-1	0
0	0	0	0
0	-2	-2	-1
2	2	2	1

	Oct	Nov	Dec
Entrainment	0	0	-2
Hydrodynamics	0	0	-2
Predation	0	0	-2
Handling	0	0	-2
Food supply	1	0	-1
Shallow/ nearshore habitat	0	0	0
Water quality (toxicants)	0	0	0
Water quality (temperature)	0	0	0
WQ (salinity)	-1	-1	-1
Agricultural diversions	1	1	1

Diversion Effects on Delta Smelt: Alternative 2

D-062051
D-062051

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

Diversion Effects on Delta Smelt: Alternative 3

June	July	Aug	Sep		Oct	Nov	Dec
2	1	1	1	Entrainment	1	1	1
1	1	1	1	Hydrodynamics	1	1	0
0	0	0	0	Predation	0	0	0
0	0	0	0	Handling	1	1	1
1	1	1	1	Food supply	1	0	-1

D-062052
D—062052

2	1	1	0
-1	-1	-1	0
0	0	0	0
0	-2	-2	-1
2	2	2	1

Shallow/ nearshore habitat	0	0	1
Water quality (toxicants)	0	0	0
Water quality (temperature)	0	0	0
WQ (salinity)	-1	-1	-1
Agricultural diversions	1	1	1

D-062053
D—062053

tions **DRY YEARS**

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-2	-3	-3	-3	-3	-3	-2	-1
-1	-1	-1	-1	-1	0	0	0	0
-1	-1	-1	-1	-1	-2	-2	-2	-1
0	0	0	0	0	0	0	0	0
0	1	1	1	-1	-1	-1	-1	-1
0	0	0	-2	-2	-3	-3	-2	0

ditions **DRY YEARS**

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-2	-3	-3	-3	-2	0

D-062054

D—062054

-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-3	-3	-3	-3	-2	-1
-1	-1	-1	-1	-1	0	0	0	0
-1	-1	-1	-1	-1	-2	-2	-2	-1
0	0	0	0	0	0	0	0	0
-1	0	0	1	-1	-1	-1	-1	-1
0	-1	-1	-3	-3	-3	-3	-2	0

rams **DRY YEARS**

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
-1	-1	-2	-2	-3	-3	-3	-2	0
0	-1	-1	-1	-1	-1	-1	-1	0
0	1	1	1	1	0	0	0	0
0	0	0	0	0	-1	-1	-1	0
0	0	0	0	0	0	0	0	0

D-062055

D—062055

0	1	1	1	-1	-1	-1	-1	-1
1	1	1	2	2	2	2	2	1

DRY YEARS

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-2	-3	-3	-3	-2	0
-2	-2	-3	-2	-3	-3	-3	-2	0
-1	-1	-1	-1	-1	-1	-1	-1	0
0	1	1	1	1	0	0	0	0
0	0	0	0	0	-1	-1	-1	0
0	0	0	0	0	0	0	0	0
-1	0	0	1	-1	-1	-1	-1	-1
1	0	0	1	1	2	2	2	1

DRY YEARS

D-062056

D—062056

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
-3	-3	-3	-3	-3	-3	-3	-2	0
-3	-3	-3	-3	-3	-3	-3	-2	0
-3	-3	-3	-3	-3	-3	-3	-2	0
-3	-3	-3	-3	-3	-3	-3	-2	0
-1	-1	-1	-1	-1	-1	-1	-1	0
0	-1	-1	-1	-1	0	0	0	0
0	0	0	0	0	-1	-1	-1	0
0	0	0	0	0	0	0	0	0
-2	-1	-1	0	-2	-2	-1	-1	-1
1	0	0	1	1	2	2	2	1

DRY YEARS

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
1	2	2	3	3	2	1	1	1
0	0	-1	2	2	2	2	2	1
0	0	1	1	1	1	1	0	0
1	2	2	3	3	2	1	1	1
-1	-1	-1	-1	-1	-1	-1	-1	0

D-062057
D—062057

1	2	2	2	2	1	1	1	0
0	0	0	0	0	-1	-1	-1	0
0	0	0	0	0	0	0	0	0
-3	-2	-2	-1	-3	-3	-2	-1	-1
1	0	0	1	1	2	2	2	1

D-062058

D—062058

Net Effects Matrices with Common Programs

Net Effects Matrices with Common Programs included

No Action Conditions - Existing **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	0	0	0	0	**-1**	**-1**	0	0
Hydrodynamics	0	0	0	0	**-1**	**-1**	0	**-2**

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D-062059

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Predation	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0
Water quality (toxicants)	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	**-1**	**-1**	0	0	0
Agricultural diversions	0	0	0	0	0	**-1**	**-1**	**-1**
Total	0	0	0	**-1**	**-3**	**-3**	**-1**	**-3**

Net Effects Matrices with Common Programs included

Common Programs - Existing **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	0	0	0	0	0	0
Predation	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	0
Food supply	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**
Shallow/ nearshore habitat	0	0	**1**	**1**	**2**	**2**	**2**	**2**
Water quality (toxicants)	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0

D-062060

D-062060

WQ (salinity)	0	0	0	0	0	0	0	0
Agricultural diversions	1	1	1	1	1	1	1	3
Total	2	2	3	3	4	5	5	7

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

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

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

D-062061
D-062061

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

Net Effects Matrices with Common Programs included

Alternative 3 - Existing **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	1	1	3	3	3	3	4	6
Hydrodynamics	1	1	2	3	4	4	4	4
Predation	0	0	1	1	1	1	1	1
Handling	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2

D-062062

D-062062

Shallow/ nearshore habitat	0	0	2	2	3	3	3	3
Water quality (toxicants)	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0
Agricultural diversions	1	1	1	1	1	0	0	2
Total	4	4	10	10	12	13	14	18

D-062063
D-062063

included (Alternative - Existing Condition)

June	July	Aug	Sep	Total
0	-1	-1	0	-4
-1	-2	-1	0	-8

Net Effects Matrices with Common Progra
No Action Conditions - Existing

	Oct	Nov
Entrainment	0	0
Hydrodynamics	0	0

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D-062064

D-062064

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	**-1**	**-1**	0	**-4**
0	0	0	0	**-3**
-1	**-4**	**-3**	0	**-19**

Predation	0	0
Handling	0	0
Food supply	0	0
Shallow/ nearshore habitat	0	0
Water quality (toxicants)	0	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	0	0
Total	0	0

Net Effects Matrices with Common Progra

Common Programs - Existing

June	July	Aug	Sep	Total
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	**1**	**1**	**1**	**15**
1	0	0	0	**11**
0	0	0	0	0
0	0	0	0	0

	Oct	Nov
Entrainment	0	0
Hydrodynamics	0	0
Predation	0	0
Handling	0	0
Food supply	**1**	**1**
Shallow/ nearshore habitat	0	0
Water quality (toxicants)	**1**	0
Water quality (temperature)	0	0

D-062065

D—062065

0	0	0	0	0
4	**4**	**4**	**1**	**23**
6	**5**	**5**	**2**	**49**

WQ (salinity)	0	0
Agricultural diversions	**1**	**1**
Total	**3**	**2**

Net Effects Matrices with Common Progra
Alternative 1 - Existing

June	July	Aug	Sep	Total
0	**-1**	**-1**	0	**-4**
-1	**-2**	**-1**	0	**-8**
0	0	0	0	0
0	0	0	0	0
1	**1**	**1**	**1**	**15**
1	0	0	0	**11**
0	0	0	0	0
0	0	0	0	0
0	**-1**	**-1**	0	**-4**
4	**4**	**4**	**1**	**20**
5	**1**	**2**	**2**	**30**

	Oct	Nov
Entrainment	0	0
Hydrodynamics	0	0
Predation	0	0
Handling	0	0
Food supply	**1**	**1**
Shallow/ nearshore habitat	0	0
	1	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	**1**	**1**
Total	**3**	**2**

Net Effects Matrices with Common Progra
Alternative 2 - Existing

D-062066
D—062066

June	July	Aug	Sep	Total
0	-1	-1	0	-7
-1	-2	-1	0	-11
-1	-2	-1	0	-11
0	0	0	0	0
1	1	1	1	15
0	0	0	0	6
0	0	0	0	0
0	0	0	0	0
0	-1	-1	0	-4
4	4	4	1	20
3	-1	1	2	8

	Oct	Nov
Entrainment	0	0
Hydrodynamics	0	0
Predation	0	0
Handling	0	0
Food supply	1	1
Shallow/ nearshore habitat	0	0
Water quality (toxicants)	1	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	1	1
Total	3	2

Net Effects Matrices with Common Progra

Alternative 3 - Existing

June	July	Aug	Sep	Total
4	3	2	1	34
2	2	2	1	30
1	1	1	0	9
0	0	0	0	0
1	1	1	1	15

	Oct	Nov
Entrainment	1	1
Hydrodynamics	1	1
Predation	0	0
Handling	1	1
Food supply	1	1

D-062067

D—062067

2	**1**	**1**	0	**20**
0	0	0	0	0
0	0	0	0	0
0	**-1**	**-1**	0	**-4**
4	**4**	**4**	**1**	**20**
14	**11**	**10**	**4**	**124**

Shallow/ nearshore habitat	0	0
Water quality (toxicants)	**1**	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	**1**	**1**
Total	**6**	**5**

D-062068
D-062068

D-062069

D—062069

ıms included

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
-1	**-1**	**-1**	**-1**	0	0	0	0	0	0	**-4**
-1	**-1**	**-1**	**-1**	0	0	0	0	0	0	**-4**

-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	0	0	0	0	0	0	0	0	-2
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	-4
0	0	-1	-1	-1	-1	0	0	0	0	-4
-6	-6	-6	-6	-1	-1	0	0	0	0	-26

ıms included

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
1	1	1	2	2	2	2	2	1	1	17
1	1	2	2	2	2	0	0	0	0	10
0	1	1	1	1	1	1	1	1	1	10
0	0	0	0	0	0	0	0	0	0	0

D-062070

D—062070

0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	4	4	5	5	4	1	29
3	4	5	6	9	9	8	8	6	3	66

ıms included

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
0	0	1	2	2	2	2	2	1	1	15
1	1	2	2	2	2	0	0	0	0	10
0	1	1	1	1	1	1	1	1	1	10
0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	-4
1	1	0	0	3	3	5	5	4	1	25
-3	-2	-1	0	8	8	8	8	6	3	40

ıms included

DRY YEARS

D-062071

D—062071

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
0	0	1	2	2	2	2	2	1	1	15
1	1	0	0	0	0	0	0	0	0	2
0	1	1	1	1	1	1	1	1	1	10
0	0	0	0	0	0	0	0	0	0	0
-1	-2	-2	-2	-1	-1	-1	0	0	0	-10
1	1	0	0	3	3	5	5	4	1	25
-7	-7	-8	-3	1	5	7	8	6	3	10

ıms included

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
2	2	3	4	5	6	5	4	3	1	37
1	1	1	1	4	5	5	5	4	1	30
1	1	1	3	3	4	4	4	2	0	23
2	2	3	4	5	6	5	4	3	1	37
0	0	1	2	2	2	2	2	1	1	15

D-062072

D—062072

2	2	3	3	3	3	1	1	1	0	19
0	1	1	1	1	1	1	1	1	1	10
0	0	0	0	0	0	0	0	0	0	0
-1	-3	-3	-3	-2	-2	-2	-1	0	0	-17
1	1	0	0	3	3	5	5	4	1	25
8	7	10	15	24	28	26	25	19	6	179

D-062073

D-062073

Alternative Matrices without Common Progra

2/9/2002

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D-062074

D-062074

D-062075

D—062075

Alternative Matrices WITHOUT Common Programs
Alternative 1 - Common Programs

WET YEARS

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

Alternative Matrices WITHOUT Common Programs
Alternative 2 - Common Programs

WET YEARS

D-062076

D-062076

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

Alternative Matrices WITHOUT Common Programs

Alternative 3 - Common Programs **WET YEARS**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Entrainment	1	1	3	3	3	3	4	6
Hydrodynamics	1	1	2	3	4	4	4	4
Predation	0	0	1	1	1	1	1	1
Handling	0	0	0	0	0	0	0	0
Food supply	0	0	0	0	0	0	0	0

D-062077

D-062077

Shallow/ nearshore habitat	0	0	1	1	1	1	1	1
Water quality (toxicants)	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0
Agricultural diversions	0	0	0	0	0	-1	-1	-1
Total	2	2	7	7	8	8	9	11

D-062078

D-062078

ms included (Alternative - Common Prograı

D-062079

D-062079

D-062080

D—062080

D-062081

Alternative Matrices WITHOUT Common P
Alternative 1 - Common Programs

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

Alternative Matrices WITHOUT Common P
Alternative 2 - Common Programs

D—062081

June	July	Aug	Sep	Total
0	-1	-1	0	-7
-1	-2	-1	0	-11
-1	-2	-1	0	-11
0	0	0	0	0
0	0	0	0	0
-1	0	0	0	-5
0	0	0	0	0
0	0	0	0	0
0	-1	-1	0	-4
0	0	0	0	-3
-3	-6	-4	0	-41

	Oct	Nov
Entrainment	0	0
Hydrodynamics	0	0
Predation	0	0
Handling	0	0
Food supply	0	0
Shallow/ nearshore habitat	0	0
Water quality (toxicants)	0	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	0	0
Total	0	0

Alternative Matrices WITHOUT Common P

Alternative 3 - Common Programs

June	July	Aug	Sep	Total
4	3	2	1	34
2	2	2	1	30
1	1	1	0	9
0	0	0	0	0
0	0	0	0	0

	Oct	Nov
Entrainment	1	1
Hydrodynamics	1	1
Predation	0	0
Handling	1	1
Food supply	0	0

D-062082

D—062082

1	**1**	**1**	0	**9**
0	0	0	0	0
0	0	0	0	0
0	**-1**	**-1**	0	**-4**
0	0	0	0	**-3**
8	**6**	**5**	**2**	**75**

Shallow/ nearshore habitat	0	0
Water quality (toxicants)	0	0
Water quality (temperature)	0	0
WQ (salinity)	0	0
Agricultural diversions	0	0
Total	**3**	**3**

D-062083

D—062083

m)

D-062084

D-062084

D-062085

D—062085

D-062086

'rograms

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	-1	-1	0	0	0	0	0	0	-4
-1	-1	0	0	0	0	0	0	0	0	-2
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-1	-1	-1	-1	0	0	0	0	0	0	-4
0	0	-1	-1	-1	-1	0	0	0	0	-4
-6	-6	-6	-6	-1	-1	0	0	0	0	-26

'rograms

DRY YEARS

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D—062086

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-2	-2	-2	-1	-1	0	0	0	0	0	-8
-1	-1	0	0	0	0	0	0	0	0	-2
0	0	-2	-2	-2	-2	0	0	0	0	-8
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-1	-2	-2	-2	-1	-1	-1	0	0	0	-10
0	0	-1	-1	-1	-1	0	0	0	0	-4
-10	-11	-13	-9	-8	-4	-1	0	0	0	-56

'rograms

DRY YEARS

Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
2	2	3	4	5	6	5	4	3	1	37
1	1	1	1	4	5	5	5	4	1	30
1	1	1	3	3	4	4	4	2	0	23
2	2	3	4	5	6	5	4	3	1	37
-1	-1	0	0	0	0	0	0	0	0	-2

D-062087

D—062087

1	1	1	1	1	1	1	1	1	0	9
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-1	-3	-3	-3	-2	-2	-2	-1	0	0	-17
0	0	-1	-1	-1	-1	0	0	0	0	-4
5	3	5	9	15	19	18	17	13	3	113

D-062088

D—062088