2906

D-062026

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

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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

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Net Effects Matrices with Common Programs included

D-062028

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	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	3	4	5	5	4	1	28
Total	3	2	3	4	5	6	8	9	8	8	6	3	65

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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	
Hydrodynamics	0	0	0	0	-1	-1	0	-1	-1	-1	-1	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	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	
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	
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	5	5	4	1	28
Total	3	2	0	-1	3	4	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	4	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	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	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	4	5	5	4	1	28
Total	3	2	7	8	12	16	19	23	21	22	16	4	153

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Alternative Matrices WITHOUT Common Programs

D-062030

D—062030

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	-5
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	-5	-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-062031

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