

Diversions	Diversions Effects on Delta Smelt: Existing (Baseline) Conditions												WET YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
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	0	0	0	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 (toxics)	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			
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			

Diversions	Diversions Effects on Delta Smelt: No Action Conditions												WET YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
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 (toxics)	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			
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			

Diversions	Diversions Effects on Delta Smelt: Common Programs												WET YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-2	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 (toxics)	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			

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Diversions Effects on Delta Smelt: Alternative 1												
	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	2	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0	0
Water quality (toxics)	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

WET YEARS

Diversions Effects on Delta Smelt: Alternative 2												
	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	2	1	1	1
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	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

WET YEARS

Diversions Effects on Delta Smelt: Alternative 3												
	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	3	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	2	1	1	1
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	2	1	1	0
Water quality (toxics)	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

WET YEARS

Diverison Effects on Delta Smelt: Existing (Baseline) 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	-3	-2	0
Hydrodynamics	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-3	-2	0
Predation	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-3	-2	0
Handling	0	0	-1	-1	-1	-2	-2	-3	-3	-3	-3	-2	0
Food supply	0	-1	-1	-1	-1	-3	-3	-3	-3	-3	-3	-2	-1
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0
Water quality (toxics)	-1	0	0	-1	-1	-1	-1	-1	-2	-2	-2	-1	-1
Water quality (temperature)	0	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	-1
Agricultural diversions	0	0	0	0	0	0	-2	-2	-3	-3	-2	0	0

Diverison 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 (toxics)	-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

Diverison 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 (toxics)	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
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Diversions Effects on Delta Smelt: Alternative 1													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-3	-2	0
Hydrodynamics	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-3	-2	0
Predation	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-3	-2	0
Handling	0	0	-2	-2	-2	-3	-2	-3	-3	-3	-3	-2	0
Food supply	1	0	-1	-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	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0	0
Water quality (temperature)	0	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	-1
Agricultural diversions	1	1	1	1	0	0	1	1	1	2	2	2	1

DRY YEARS

Diversions Effects on Delta Smelt: Alternative 2													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Hydrodynamics	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Predation	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Handling	0	0	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	0
Food supply	1	0	-1	-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	0
Water quality (toxics)	0	0	0	0	0	0	0	0	-1	-1	-1	0	0
Water quality (temperature)	0	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	-1
Agricultural diversions	1	1	1	1	0	0	1	1	2	2	2	2	1

DRY YEARS

Diversions Effects on Delta Smelt: Alternative 3												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
Entrainment	1	1	1	1	2	2	3	3	2	2	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 (toxics)	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

DRY YEARS

Net Effects Matrices with Common Programs Included

No Action Conditions - Existing	WET YEARS												Total	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep		
Entrainment	0	0	0	0	-1	-1	0	0	0	-1	-1	0	0	-4
Hydrodynamics	0	0	0	0	-1	-1	0	-2	-1	-2	-1	0	0	-8
Predation	0	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	0
Food supply	0	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	0
Water quality (toxics)	0	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	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-1	-1	0	0	-4
Agricultural diversions	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	-3

Net Effects Matrices with Common Programs Included

Common Programs - Existing	WET YEARS												Total	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep		
Entrainment	0	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	0
Predation	0	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	0
Food supply	1	1	1	1	1	2	2	2	1	1	1	1	1	15
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	0	11
Water quality (toxics)	0	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	0
WQ (salinity)	0	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	4	1	23

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	15													
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	1	0	0	0	11													
Water quality (toxics)	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	4	20													

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	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 (toxics)	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	4	20													

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	9													
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 (toxics)	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	4	20													

Net Effects Matrices with Common Programs Included

		DRY YEARS												
		No Action Conditions - Existing												
		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 (toxics)		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

Net Effects Matrices with Common Programs Included

		DRY YEARS												
		Common Programs - Existing												
		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 (toxics)		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

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	0	-4												
Hydrodynamics	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	-4												
Predation	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	-4												
Handling	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	-4												
Food supply	1	1	0	0	1	2	2	2	2	2	2	1	1	15												
Shallow/ nearshore habitat	0	0	1	1	2	2	2	2	0	0	0	0	0	10												
Water quality (temperature)	1	0	0	1	1	1	1	1	1	1	1	1	1	10												
WQ (salinity)	0	0	-1	-1	-1	-1	0	0	0	0	0	0	0	-4												
Agricultural diversions	1	1	1	1	0	0	3	3	5	5	4	1	25													

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	2	1	15													
Shallow/ nearshore habitat	0	0	1	1	0	0	0	0	0	0	0	0	2													
Water quality (toxics)	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	-1	0	0	-10													
Agricultural diversions	1	1	1	1	0	0	3	3	5	5	4	1	25													

Alternative 3 - Existing												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	5	4	3	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 (toxics)	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	25													

AlternativeNet Effects Matricies WITHOUT Common Programs included

AlternativeNet Effects Matricies WITHOUT Common Programs included

	(Alternative 1 - Common Programs) - Existing												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	1	1	0	0	1	3	2	1	0	0	9
Hydrodynamics	0	0	1	1	0	0	1	-1	0	-1	0	0	1
Predation	0	0	1	1	1	1	1	1	1	1	1	1	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	1	1	1	1	1	1	0	0	0	0	6
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	1	5
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	0	0	0	-1
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	2	4

WET YEARS

	(Alternative 2 - Common Programs) - Existing												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	0	0	0	0	0	0	0	3	2	1	0	0	6
Hydrodynamics	0	0	0	0	0	0	0	-1	0	-1	0	0	-2
Predation	0	0	0	0	0	0	0	-1	0	-1	0	0	-2
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	0	0	0	0	-1	0	0	0	1
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	1	5
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	0	0	0	-1
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	2	4

WET YEARS

	(Alternative 3 - Common Programs) - Existing												Total
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	
Entrainment	1	1	4	4	4	4	5	9	6	5	3	1	47
Hydrodynamics	1	1	3	4	5	5	5	5	3	3	3	1	39
Predation	0	0	2	2	2	2	2	2	2	2	2	0	18
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	2	2	2	2	2	2	1	1	1	0	15
Water quality (toxics)	0	0	0	0	0	0	1	1	1	1	1	0	5
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	0	0	1	-1
Agricultural diversions	0	0	0	0	0	-1	-1	0	2	2	2	2	4

WET YEARS

AlternativeNet Effects Matricies WITHOUT Common Programs included

AlternativeNet Effects Matricies WITHOUT Common Programs included

(Alternative 1 - Common Programs) - Existing												DRY YEARS		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total	
Entrainment	0	0	0	0	0	1	2	3	3	3	3	2	0	14
Hydrodynamics	0	0	0	0	0	1	2	3	3	3	3	2	0	14
Predation	0	0	0	0	0	1	2	3	3	3	3	2	0	14
Handling	0	0	0	0	0	1	2	3	3	3	3	2	0	14
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	0	21
Shallow/ nearshore habitat	0	0	0	1	1	1	1	1	0	0	0	0	0	6
Water quality (toxics)	1	0	0	0	1	1	1	1	2	2	2	1	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-1	-2	-2	-1	1	1	1	1	1	1	0
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	0	8

(Alternative 2 - Common Programs) - Existing												DRY YEARS	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	0	0	-1	-1	-1	1	1	3	3	3	2	0	10
Hydrodynamics	0	0	-1	-1	-1	1	1	3	3	3	2	0	10
Predation	0	0	-1	-1	-1	1	1	3	3	3	2	0	10
Handling	0	0	-1	-1	-1	1	1	3	3	3	2	0	10
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	1	1	-1	-1	-1	0	0	0	0	0	-2
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-2	-3	-3	-2	0	0	1	1	1	-6
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	8

Alternative 3 - Existing												DRY YEARS	
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Total
Entrainment	1	1	3	3	4	6	7	9	8	7	5	1	55
Hydrodynamics	1	1	2	2	2	3	6	8	8	8	6	1	48
Predation	0	0	2	2	2	5	5	7	7	7	4	0	41
Handling	1	1	3	3	4	6	7	9	8	7	5	1	55
Food supply	0	1	0	0	2	3	3	3	3	3	2	1	21
Shallow/ nearshore habitat	0	0	2	2	2	2	2	2	1	1	1	0	15
Water quality (toxics)	1	0	0	1	1	1	1	1	2	2	2	1	13
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	1	1	-1	-3	-4	-4	-3	-1	-1	0	1	1	-13
Agricultural diversions	0	0	0	0	-1	-1	1	1	3	3	2	0	8

Diversions Effects on Delta Smelt - Existing (Baseline) 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	-1	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	-1	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	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	-1	-1	-1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2	-2	0	0	0	0	0	0	0	0

Diversions Effects on Delta Smelt - No Action Conditions (NA-EXIST)										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	-2	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2	-2	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	-1	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	0	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2	-2	0	0	0	0	0	0	0	0

Diversions 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	-1	0	0	0	0	0	0	0	0
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Handling	0	0	0	0	0	0	0	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	1	1	1	1	1	1	1	1
Shallow/ nearshore habitat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
Water quality (temperature)	0	0	0	0	0	0	0	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	-1	-1	-1	-1	-1	-1	-1	-1
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	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 (toxics)	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

WET YEARS

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

Diversion Effects on Delta Smelt - Alternative 3

WET YEARS

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

	Diversion Effects on Delta Smelt - Existing (Baseline) Conditions												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug		
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Handling	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0		
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0		
Water quality (toxics)	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0		
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Agricultural diversions	0	0	0	0	0	0	0	-1	-2	-2	-2	0	0	0	0	0	0	0	-1	-2	-2	-2		

	Diversion Effects on Delta Smelt - No Action Conditions (NA-EXIST)												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug		
Entrainment	0	0	-1	-1	-1	-2	-1	-3	-2	-3	-2	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2		
Hydrodynamics	0	0	-1	-1	-1	-2	-1	-3	-2	-2	-2	0	0	-1	-1	-2	-2	-1	-3	-2	-2	-2		
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Handling	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0		
Shallow/ nearshore habitat	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0		
Water quality (toxics)	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0		
WQ (salinity)	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0		
Agricultural diversions	0	0	0	0	0	-1	-1	-2	-2	-2	-2	0	0	0	0	-1	-1	-1	-2	-2	-2	-2		

	Diversion Effects on Delta Smelt - Common Programs												WET YEARS											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug		
Entrainment	0	0	-1	-1	-1	-1	-1	-3	-2	-2	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Hydrodynamics	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1		
Handling	0	0	0	0	0	0	0	0	0	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	1	1	1	1	2	2	2	1	1	1	1	
Shallow/ nearshore habitat	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	0	0		
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1	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	0	0	0	0	0	0	0	0	0		
WQ (salinity)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	2	2	2		

Diversions Effects on Delta Smelt - Alternative 1											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2
Hydrodynamics	0	0	-1	-1	-2	-2	-1	-3	-2	-3	-2
Predation	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1
Handling	0	0	0	0	0	0	0	0	0	0	0
Food supply	1	1	1	1	1	2	2	2	1	1	1
Shallow/ nearshore habitat	0	0	0	0	1	1	1	1	1	0	0
Water quality (toxics)	0	0	0	0	0	0	-1	-1	-1	-1	-1
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0
WQ (salinity)	0	0	0	-1	-1	0	0	0	0	-2	-2
Agricultural diversions	1	1	1	1	1	0	0	1	2	2	2

WET YEARS

Diversions Effects on Delta Smelt - Alternative 2											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment											
Hydrodynamics											
Predation											
Handling											
Food supply											
Shallow/ nearshore habitat											
Water quality (toxics)											
Water quality (temperature)											
WQ (salinity)											
Agricultural diversions											

WET YEARS

Diversions Effects on Delta Smelt - Alternative 3											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug
Entrainment											
Hydrodynamics											
Predation											
Handling											
Food supply											
Shallow/ nearshore habitat											
Water quality (toxics)											
Water quality (temperature)											
WQ (salinity)											
Agricultural diversions											

WET YEARS

Diverison Effects on Delta Smelt - Existing (Baseline) Conditions										DRY YEARS							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Entrainment	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Hydrodynamics	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Predation	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Handling	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Food supply	0	0	-1	-1	-1	-2	-3	-3	-3	-3	-3						
Shallow/ nearshore habitat	0	0	0	-1	-1	-1	-1	-1	-1	-1	0						
Water quality (toxics)	0	-1	0	0	-1	-1	-1	-1	0	-1	-2						
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0						
WQ (salinity)	-1	-1	-1	0	0	1	1	1	1	-1	-1						
Agricultural diversions	0	0	0	0	0	0	0	-2	-2	-3	-3						

Diverison Effects on Delta Smelt - No Action Conditions										DRY YEARS							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Entrainment	0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
Hydrodynamics	0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
Predation	0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
Handling	0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
Food supply	0	0	-1	-2	-2	-2	-3	-3	-3	-3	-3						
Shallow/ nearshore habitat	0	0	0	-1	-1	-1	-1	-1	-1	-1	0						
Water quality (toxics)	0	-1	0	0	-1	-1	-1	-1	0	-1	-2						
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0						
WQ (salinity)	-1	-1	-1	-1	-1	0	0	1	1	-1	-1						
Agricultural diversions	0	0	0	0	0	-1	-1	-3	-3	-3	-3						

Diverison Effects on Delta Smelt - Common Programs										DRY YEARS							
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Entrainment	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Hydrodynamics	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Predation	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Handling	0	0	0	-1	-1	-1	-2	-2	-3	-3	-3						
Food supply	1	1	0	0	0	-1	-1	-1	-1	-1	-1						
Shallow/ nearshore habitat	0	0	0	0	0	1	1	1	1	1	0						
Water quality (toxics)	0	0	0	0	0	0	0	0	0	0	-1						
Water quality (temperature)	0	0	0	0	0	0	0	0	0	0	0						
WQ (salinity)	-1	-1	-1	0	0	1	1	1	1	-1	-1						
Agricultural diversions	1	1	1	1	1	1	1	2	2	2	2						

Diverison Effects on Delta Smelt - Alternative 1										DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Sep																
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
0	0	0	-2	-2	-2	-3	-2	-3	-3	-3						
1	1	0	-1	-1	-1	-1	-1	-1	-1	-1						
0	0	0	0	0	1	1	1	1	1	0						
0	0	0	0	0	0	0	0	0	0	-1						
0	0	0	0	0	0	0	0	0	0	0						
-1	-1	-1	-1	-1	0	0	1	-1	-1	-1						
1	1	1	1	1	0	0	1	1	1	2						

Diverison Effects on Delta Smelt - Alternative 2										DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Sep																
Entainment																
Hydrodynamics																
Predation																
Handling																
Food supply																
Shallow/ nearshore habitat																
Water quality (toxics)																
Water quality (temperature)																
WQ (salinity)																
Agricultural diversions																

Diverison Effects on Delta Smelt - Alternative 3										DRY YEARS						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July						
Sep																
Entainment																
Hydrodynamics																
Predation																
Handling																
Food supply																
Shallow/ nearshore habitat																
Water quality (toxics)																
Water quality (temperature)																
WQ (salinity)																
Agricultural diversions																

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-2	-1
0	0
-2	-1
0	0
-1	-1
-2	0

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-2	-1
0	0
-2	-1
0	0
-1	-1
-2	0

Aug	Sep
-2	0
-2	0
-2	0
-2	0
-1	0
0	0
-1	0
0	0
-1	-1
2	1

