One Example of How Matrix Could be Filled In

Gear Definitions/Regulations

General Types of Management Tools	GEAR DEFINITIONS/REGULATIONS																		
More Specific Categories of Management Tools	TRAWL						HOOK-AND-LINE					POT				SETNET (California)			
Specific Management Tools&Measures	mesh size	ftrope diameter	ftrope length	net height	codend	pelagic only	number of hooks	hook size and type	line length	"Anti-bird devices"	off-bottom only	limited number	size	mesh size	escape port	Minimum mesh size	Area/Depth	Length	Height
Target Species																			
rockfish	+	+	+	+	+	+	+		+		+					+	+	+	+
flatfish	+	+	+	+	+														
"roundfish"	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+
other species	+	+	+	+	+	+									+	+	+	+	+
Non-Target Species																			
Finfish	+	+	+	+	+	+													
Salmon	+	+	+	+	+	+													
Pacific halibut																			
pink shrimp																			
Protected species																			
Marine mammals																			
Seabirds									+	+									
Turtles																			
Habitat/Ecosystem																			
Bottom - hard		+	+	+	+	+													
Bottom - soft		+	+	+	+	+													
Water column																			
Bottom fauna		+	+	+	+	+													
Socioeconomic																			
vessel revenues																			
groundfish	-	-	-	-	-	-													
other species																			
community impacts																			
travel time																			
Fishery-Dependent Data																			

Vessel Landing Limits / Vessel Catch Limits

General Types of Management Tools	VESSEL LANDING LIMITS									VESSEL CATCH LIMITS								
More Specific Categories of Management Tools	BY SPECIES			BY SPECIES COMPLEX			BY DAYS AT SEA			BY SPECIES			BY SPECIES COMPLEX			BY DAYS AT SEA		
Specific Management Tools&Measures	By Sector	By Permit	By vessel	By Sector	By Permit	By vessel	By Sector	By Permit	By vessel	By Sector	By Permit	By vessel	by sector	by permit	by vessel	By Sector	By Permit	By vessel
Target Species																		
rockfish	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
flatfish	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
"roundfish"	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
other species	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Non-Target Species																		
Finfish										+	+	+	+	+	+	+	+	+
Salmon										+	+	+	+	+	+	+	+	+
Pacific halibut										+	+	+	+	+	+	+	+	+
pink shrimp																		
Protected species																		
Marine mammals																		
Seabirds																		
Turtles																		
Habitat/Ecosystem																		
Bottom - hard										+	+	+	+	+	+	+	+	+
Bottom - soft										+	+	+	+	+	+	+	+	+
Water column										+	+	+	+	+	+	+	+	+
Bottom fauna										+	+	+	+	+	+	+	+	+
Socioeconomic																		
vessel revenues																		
groundfish																		
other species																		
community impacts																		
travel time																		
Fishery-Dependent Data	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+			

Time/Area Closures / Harvest Levels (OY) / Capacity

General Types of Management Tools	TIME/AREA CLOSURES						HARVEST LEVELS (OY)					CAPACITY (including rights-based measures)							
More Specific Categories of Management Tools	SIZE, SHAPE, LOCATION				DURATION		VARIOUS LEVELS OF PRECAUTION					PERMITS				ALLOCATION			
Specific Management Tools&Measures	Large	Small	by depth	by straight lines	seasonal	permanent	by species	by complex	yearly	multi yr	by area	Limited	Unlimited	Gear-specific	Area-specific	By Sector	By Fisher	By Vessel	By Area
Target Species																			
rockfish	+	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
flatfish	+	+	+	+	+	+													
"roundfish"	+	+	+	+	+	+													
other species	+	+	+	+	+	+													
Non-Target Species																			
Finfish																			
Salmon	+	+	+	+	+	+													
Pacific halibut	+	+	+	+	+	+													
pink shrimp																			
Protected species																			
Marine mammals	+	+	+	+	+	+	+	+	+	+	+								
Seabirds	+	+	+	+	+	+	+	+	+	+	+								
Turtles	+	+	+	+	+	+	+	+	+	+	+								
Habitat/Ecosystem																			
Bottom - hard	+	+	+	+	+	+	+	+	+	+	+								
Bottom - soft	+	+	+	+	+	+	+	+	+	+	+								
Water column	+	+	+	+	+	+	+	+	+	+	+								
Bottom fauna	+	+	+	+	+	+	+	+	+	+	+								
Socioeconomic																			
vessel revenues																			
groundfish																			
other species																			
community impacts																			
travel time																			
Fishery-Dependent Data																			

Data Reporting, Recordkeeping, and Monitoring

General Types of Management Tools	DATA REPORTING, RECORDKEEPING, AND MONITORING												
More Specific Categories of Management Tools	REPORTING REQUIRMNTS				MONITORING SYSTEM			MANDATORY RETENTION (without verification)			MANDATORY RETENTION (with verification)		
Specific Management Tools&Measures	State fish tickets	State Logbooks	Federal fish tickets	Federal logbooks	Processor Repts	Observer Program	Vessel monitoring sy	All species	All Finfish	All Groundfish	All species	All Finfish	All Groundfish
Target Species													
rockfish	+	+					+						
flatfish													
"roundfish"													
other species													
Non-Target Species													
Finfish													
Salmon													
Pacific halibut													
pink shrimp													
Protected species													
Marine mammals													
Seabirds													
Turtles													
Habitat/Ecosystem													
Bottom - hard													
Bottom - soft													
Water column													
Bottom fauna													
Socioeconomic													
vessel revenues													
groundfish													
other species													
community impacts													
travel time													
Fishery-Dependent Data	+	+	+	+	+	+	+						

\+ means "affects positively" or "works"
\- means "affects negatively"
(blank) means "does not affect" or not applicable
+ means "works really well"
- means "affects really negatively"
? means unknown, uncertain, controversial, etc