## Economic Activity Associated with SCeMFiS Supported Fishery Products - T. J. Murray

Commercial fishery product landings begin the product development, processing and distribution changes which create additional economic value and impacts beyond the initial landed value and economic impact. The scope and extent of economic impacts are evaluated for SCeMFiS at each level along the entire market chain of distribution from the fishermen in the harvest sector, through final sale to consumers generally by retail markets and restaurants.

The distinct market sectors for which data are presented are:

- 1. Harvesting sector –fishermen
- 2. Primary wholesaling and processing sector –initial phase of distribution typically unloading vessels and/or purchasing directly from the harvesters.
- 3. Import-export operations receive and or prepare product for shipment and brokering.
- 4. Secondary wholesaling or distributing sector –all distribution, storage, packing or repacking that takes place between the wholesale market or processor and the final retail point of sale.
- 5. Food service all activities resulting in the sale of prepared foods to the end consumer, such as restaurants.
- 6. Retail markets establishments selling seafood for at-home consumption. Includes supermarkets, independent grocers, and specialty seafood markets.

As the products leave the boat and are sold initially they are further marketed at the levels noted above. At each level, the initial purchase price is increased to a product sale price which reflects the added value provided by that function. Along each step of the market chain, the value of the fishery product is increased by virtue of that additional sectors value added function. At each market sector the value-added activity in itself has not only a discreet markup value but it also generates discreet additional direct¹ and indirect² economic impacts associated with that function. The direct activity, for example canning a product, requires the purchase of inputs such as cans which constitute new and discreet indirect impact. In that way each market sector's value added amount generates its own economic impact.

 $<sup>^1</sup>$  Direct impacts occur in the industry sector under consideration. In this case they include activities that occur on fishing vessels, in seafood wholesale and processing plants or the various retail and distribution functions which handle SCeMFiS related products.

<sup>&</sup>lt;sup>2</sup> Indirect impacts relate to the purchase of inputs by the direct industry sector needed to perform its value added function.

Table 1 reflects this hierarchy of sales and associated economic impact as measured by the traditional measure of dollars of output for the scup fisheries. Employment and income are other measures of economic impact being used to assess the economic impacts of SCeMFiS related fisheries such as herein.

Table 1. Scemfish Scup										
Industry segment	Type of products	Whole product	Fillets, steaks, sections	Canned products	Processed & breaded portions	Cured & other products	Industrial products	Total allocation	Domestic & imports	Exports
	landings				portions	products			100%	0%
	landings for									
	processing								\$ 9,563,000	\$ -
Landings:	exported									0%
domestic	landings									070
processing,	markup on									\$ -
export	exported landings for									
	domestic									
	processing or								\$ 9,563,000	\$ -
	landings	95%	5%	0%	0%	0%	0%	100%	, ,	
Supply for	processed									
domestic	domestically	\$ 9,084,850	\$ 478,150	\$ -	\$ -	\$ -	\$ -	\$ 9,563,000	\$ 9,563,000	
processing	unprocessed	640/	201	201	200/	00/	00/	1000/		
from landings &	imports	61%	0%	0%	39%	0%	0%	100%		
unprocessed	imports, unprocessed	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
imports	segment	7	Y	Y	,	7	Ţ	7	7	
	outputs	\$ 9,084,850	\$ 478,150	\$ -	\$ -	\$ -	\$ -	\$ 9,563,000	\$ 9,563,000	
	segment	, ,	, ,						,	
	inputs	24%	38%	2%	33%	3%	0%	100%		
	segment			Ī						
Primary	inputs	\$ 2,295,120	\$ 3,633,940	\$ 191,260	\$ 3,155,790	\$ 286,890	\$ -	\$ 9,563,000	\$ 9,563,000	
wholesale	primary wholesale and									
and	processing	108%	79%	280%	388%	591%	0%			
processing	processing	10070	7370	20070	30070	33170	070			
	markup	\$ 2,478,730	\$ 2,870,813	\$ 535,528	\$12,244,465	\$ 1,695,520	\$ -	\$19,825,055	\$19,825,055	
	segment									
	outputs	\$ 4,773,850	\$ 6,504,753	\$ 726,788	\$15,400,255	\$ 1,982,410	\$ -	\$29,388,055	\$29,388,055	
	processed									
	product for distribution	ć 4 772 0F0	¢ 6 504 753	ć 726.700	¢45 400 355	ć 1 002 110	4	¢20,200,055	¢20,200,055	
	processed	\$ 4,773,850	\$ 6,504,753	\$ 726,788	\$15,400,255	\$ 1,982,410	\$ -	\$29,388,055	\$29,388,055	
	exports	0%	0%	5%	95%	0%	0%	100%		
	processed	\$ -	\$ -	\$ 110	\$ 2,215	\$ -	\$ -	\$ 2,325	\$ (2,325)	\$ 2,325
	processed									
	exports	0%	0%	6%	6%	0%	0%			
	processed									
Secondary	export Imports,	\$ -	\$ -	\$ 7	\$ 133 \$ -	\$ - \$ -	\$ - \$ -	\$ 140 \$ -	ć	\$ 140
wholesale	processed	<b>3</b> -	\$ <u>-</u>	\$ -	<b>\$</b> -	\$ -	\$ -	ş -	\$ -	
and	imports	0%	0%	0%	0%	0%	0%	0%		
distribution	processed									
	imports	9%	9%	9%	9%	9%	0%			
	processed									
	import	\$0			\$0	\$0				
		\$ 4,/73,850	\$ 6,504,753	\$ /26,678	\$15,398,040	\$ 1,982,410	\$ -	\$29,385,730	\$29,385,730	
	Markup from distribution	11%	11%	11%	11%	11%	11%			
	markup	\$ 525,123			\$ 1,693,784			\$ 3,232,430	\$ 3,232,430	
	segment			,,		, , , , , , , , , ,				
	outputs	\$ 5,298,973	\$ 7,220,275	\$ 806,613	\$17,091,825	\$ 2,200,475	\$ -	\$32,618,161	\$32,618,161	
Final sector		Food service	retail	Industrial						
		JC. VICC		products						
	among	F0/	050/	00/						
	sectors Total entering	5%	95%	0%						
	sector	\$ 1,630.908	\$30,987,253	\$ -				\$32,618.161	\$32,618,161	
	Markup in	. ,,	, ,					, ,	, ,	
	final sector	175%	23%	0%						
	retail	\$ 2,854,089	\$ 7,127,068	\$ -				\$ 9,981,157	\$ 9,981,157	
	value	\$ 4,484,997	\$38,114,321					\$42,599,318	\$42,599,318	
	industrial									
	products			\$ -				\$ -	\$ -	
	domestic final sales								¢42 F00 240	
	value								\$42,599,318	\$ 2,465
	domestic									۷ ۷,405
	sales &									\$42,601,782
										,,,

Table 2 reflects this hierarchy of margined-sales and associated economic impact as measured by the mark up margin for the scup fisheries. Employment and income are other measures of economic impact being used to assess the economic impacts of SCeMFiS related fisheries such as herein.

т	able 2	Harvest	Import/ Export	Processing	Distribution	Food service	Retail market	Cumulative
	Employment	62	25	350	132	1,275	400	2,244
Direct	Income	\$ 1,035	\$ 832	\$ 4,988	\$ 2,574	\$ 9,016	\$4,546	\$ 22,991
	Output	\$ 9,563	\$ 2,109	\$ 15,039	\$ 4,790	\$ 16,113	\$8,932	\$ 56,546
	Employment	23	19	194	34	131	64	465
Indirect	Income	\$ 588	\$445	\$ 4,551	\$ 769	\$ 2,731	\$1,406	\$ 10,490
	Output	\$ 2,520	\$ 1,237	\$ 14,031	\$ 2,671	\$ 9,006	\$4,910	\$ 34,375
	Employment	76	61	507	144	520	260	1,568
Induced	Income	\$ 1,565	\$ 1,214	\$ 10,282	\$ 2,780	\$ 9,802	\$4,988	\$ 30,631
	Output	\$ 6,020	\$ 3,992	\$ 34,599	\$ 9,878	\$ 34,335	\$17,743	\$ 106,567
Dime et :	Employment	85	44	544	166	1,406	464	2,709
Direct + indirect	Income	\$ 1,623	\$ 1,277	\$ 9,539	\$ 3,343	\$ 11,747	\$5,952	\$ 33,481
	Output	\$ 12,083	\$ 3,346	\$ 29,070	\$ 7,461	\$ 25,119	\$ 13,842	\$ 90,921

