

**Processing jobs analysis for Just Sablefish vs Dover & Sablefish as bycatch**

Budgeted Numbers from a Pacific Plant for 2019:

Labor for dover and Sablefish per finished lb. & converted to whole round (purchase) lbs

(From Pacific Seafood )

	With Fringe** fin. Lbs***	No fringe fin. Lbs	With Fringe WR Lbs	No fringe WR. Lbs	
Trawl****	\$ 0.2539	\$ 0.1904	\$ 0.1587	\$ 0.1190	Sablefish
Fixed Gear*	\$ 0.1892	\$ 0.1419	\$ 0.1183	\$ 0.0887	Sablefish
Trawl	\$ 0.8170	\$ 0.6128	\$ 0.2533	\$ 0.1900	Dover*****
Avg wage with fringe		\$ 20.00			
Avg wage no fringe		\$ 15.00			

Whole Round lbs per labor hour per person.

Sablefish	Dover	
169	79	Whole round lbs per hour per processing worker

**Ratio Sablefish to Dover whole round lbs/per labor hour 2.14**

In this model it would take 2.14 times as many employee hours to do an equal amount of WR poundage to produce Dover fillets as it would H&G Sablefish

Using the EDC report the ratio of Trawl dover to Trawl Sablefish was 4.95:1

**Mutipliynng the 2.14 ratio by the 4.65 ratio gives the additonal work hours and jobs that are produced by utilizing the Trawl Sablefish as bycatch to harvest Dover. There is an additional job "lift" with other species, notably Thornyheads which I will address later. This is expected to less than Dover but still significant.**

**Ratio of 2.14 jobs to 1 times 4.65 additionla lbs of Dover**

$$2.14 \times 4.65 = 9.95 \text{ jobs ratio}$$

**Final job output 100,000lb of whole round Sablefish only and 100,000lb of Sablefish as bycatch with 465,000lb of whole round Dover:**

Sablefish Only:	100,000lbs whole round weight		
100,000lb / 169lb per hour =	592 hours	100,000 pounds	169 lb/hr
8 hour day = 1 job day	74 job days	592 hours	8 hour day
Sablefish portion:	100,000lbs whole round weight		
100,000lb / 169lb per hour =	592 hours	100,000 pounds	169 lb/hr
8 hour day = 1 job day	74 job days	592 hours	8 hour day
Dover Portion	465,000lb		
465,000lb / 79lb per hour =	5889 hours	465,000 pounds	79 lb/hr
8 hour day = 1 job day	736.1 job days	5889 hours	8 hour day
<b>Ratio</b>	<b>9.95</b>	<b>work and job hours ratio of dover to sablefish</b>	

**810.1 Total Job Days 100,000lb Sablefish + 465,000lb Dover**

**Ratio in job days to process JUST Sablefish vs. the job days necessary to to process the Dover with the same amount of Sablefish but used as trawl bycatch to target Dover:**

**10.95** times more job hours for "bycatch" Sablefish and Dover vs. only the Sablefish

100,000lb just Sablefish =	\$ 8,880	wages	@\$15.00/hr
100,000lb Sablefish + 465,000lb Dover =	\$97,208	Wages	(No Fringe)

\*Different Budget numbers for Trawl and Fixed Gear are attributed to more J-cut deliveries for fixed gear vessels and the smaller Trawl fish which slows production: for this exercise we used the fixed gear Labor number

\*\* Fringe is calculated at 25%

\*\*\* Sablefish Recovery calculated at 62.5%

\*\*\*\*For reference only

\*\*\*\*\*Dover recovery calculated at 31%