

QA:NA

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cc: Robert Long/YD/RWDOE@CRWMS
Subject: Cask manufacturing multipliers

here is spreadsheet with multipliers, source, and multiplied changes in output(\$) and jobs.

Have fun.



cask multi

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Fabricated metal products

State	Final Demand multipliers		Direct effect multipliers employment (# of jobs)
	Output (\$)	Earnings (\$)	
Massachussets	1.8927	0.5555	2.2050
North Carolina	1.9145	0.5426	2.1544
Ohio	2.6019	0.7260	3.1064
Pennsylvania	2.5697	0.7194	2.8552
Tennessee	2.1379	0.6107	2.5314
Average	2.2233	0.6308	2.5705

Source:

U.S. Department of Commerce, Economics and Statistics Administration, Bureau of Economic Analysis
"Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System (RIMS II
Second Edition, 1992.

Year	Most Rail DISPC		output change in millions	Most Rail DISPC		employment (# of jobs)
	FTEs	Cost Millions		earnings ch in millions		
2010	36.48	\$51.06	\$113.52	\$32.21	94	
2011	60.14	\$67.68	\$150.48	\$42.70	155	
2012	94.92	\$104.86	\$233.13	\$66.15	244	
2013	145.30	\$162.45	\$361.18	\$102.48	373	
2014	202.52	\$227.72	\$506.31	\$143.66	521	
2015	240.45	\$258.39	\$574.48	\$163.00	618	
2016	249.54	\$275.54	\$612.63	\$173.82	641	
2017	244.02	\$272.89	\$606.72	\$172.15	627	
2018	262.99	\$288.60	\$641.67	\$182.06	676	
2019	261.06	\$278.94	\$620.18	\$175.97	671	
2020	250.95	\$274.67	\$610.69	\$173.27	645	
2021	261.08	\$281.55	\$625.99	\$177.61	671	
2022	243.66	\$268.95	\$597.96	\$169.66	625	
2023	249.03	\$266.34	\$592.16	\$168.02	640	
2024	246.33	\$273.79	\$608.72	\$172.72	633	
2025	253.64	\$273.33	\$607.70	\$172.43	652	
2026	249.22	\$273.60	\$608.30	\$172.60	641	
2027	251.98	\$272.41	\$605.66	\$171.85	648	
2028	249.38	\$271.45	\$603.52	\$171.24	641	
2029	253.86	\$280.63	\$623.95	\$177.04	653	
2030	255.31	\$285.74	\$635.30	\$180.26	656	
2031	263.41	\$288.19	\$640.75	\$181.80	677	
2032	256.86	\$289.96	\$644.69	\$182.92	660	
2033	236.13	\$184.89	\$411.07	\$116.63	607	
	5,318.24	\$5,773.64				

	Most Rail DPC or All LWT		Most Rail DPC or All LWT		
	FTEs	Cost Millions	output change in millions	earnings ch in millions	employment (# of jobs)
2010	23.69	\$33.15	\$73.71	\$20.91	61
2011	39.05	\$43.94	\$97.70	\$27.72	100
2012	61.62	\$68.08	\$151.37	\$42.95	158
2013	94.33	\$105.47	\$234.50	\$66.54	242
2014	131.48	\$147.86	\$328.73	\$93.27	338
2015	156.13	\$167.76	\$373.00	\$105.83	401
2016	162.03	\$178.90	\$397.76	\$112.86	416
2017	158.45	\$177.18	\$393.93	\$111.77	407
2018	170.77	\$187.38	\$416.62	\$118.21	439
2019	169.51	\$181.11	\$402.67	\$114.25	436
2020	162.96	\$178.34	\$396.51	\$112.50	419
2021	169.54	\$182.80	\$406.44	\$115.32	436
2022	158.22	\$174.62	\$388.24	\$110.16	407

2023	161.71	\$172.93	\$384.48	\$109.09	416
2024	159.96	\$177.76	\$395.23	\$112.14	411
2025	164.71	\$177.47	\$394.57	\$111.95	423
2026	161.84	\$177.64	\$394.96	\$112.06	416
2027	163.63	\$176.87	\$393.24	\$111.58	421
2028	161.94	\$176.24	\$391.85	\$111.18	416
2029	164.85	\$182.21	\$405.11	\$114.94	424
2030	165.80	\$185.53	\$412.49	\$117.04	426
2031	171.06	\$187.12	\$416.02	\$118.04	440
2032	166.80	\$188.27	\$418.58	\$118.77	429
2033	152.93	\$120.04	\$266.89	\$75.73	393
	3,453.01	\$3,748.68			