

Socioeconomic Analysis of Sea Level Rise: Kennebunk, Wells and York

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Southern Maine Planning and Development Commission

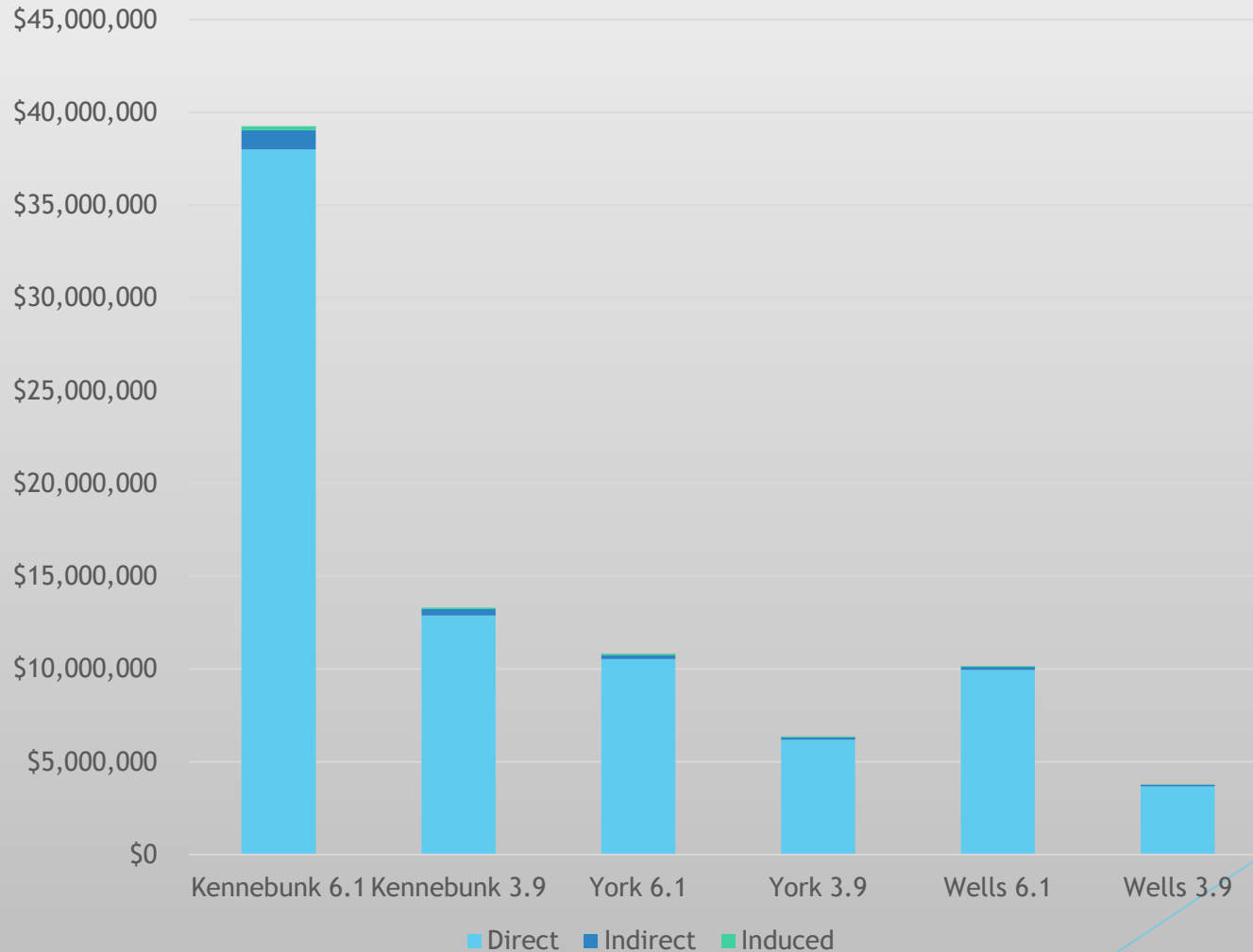
November 24, 2020

Municipal Level Results

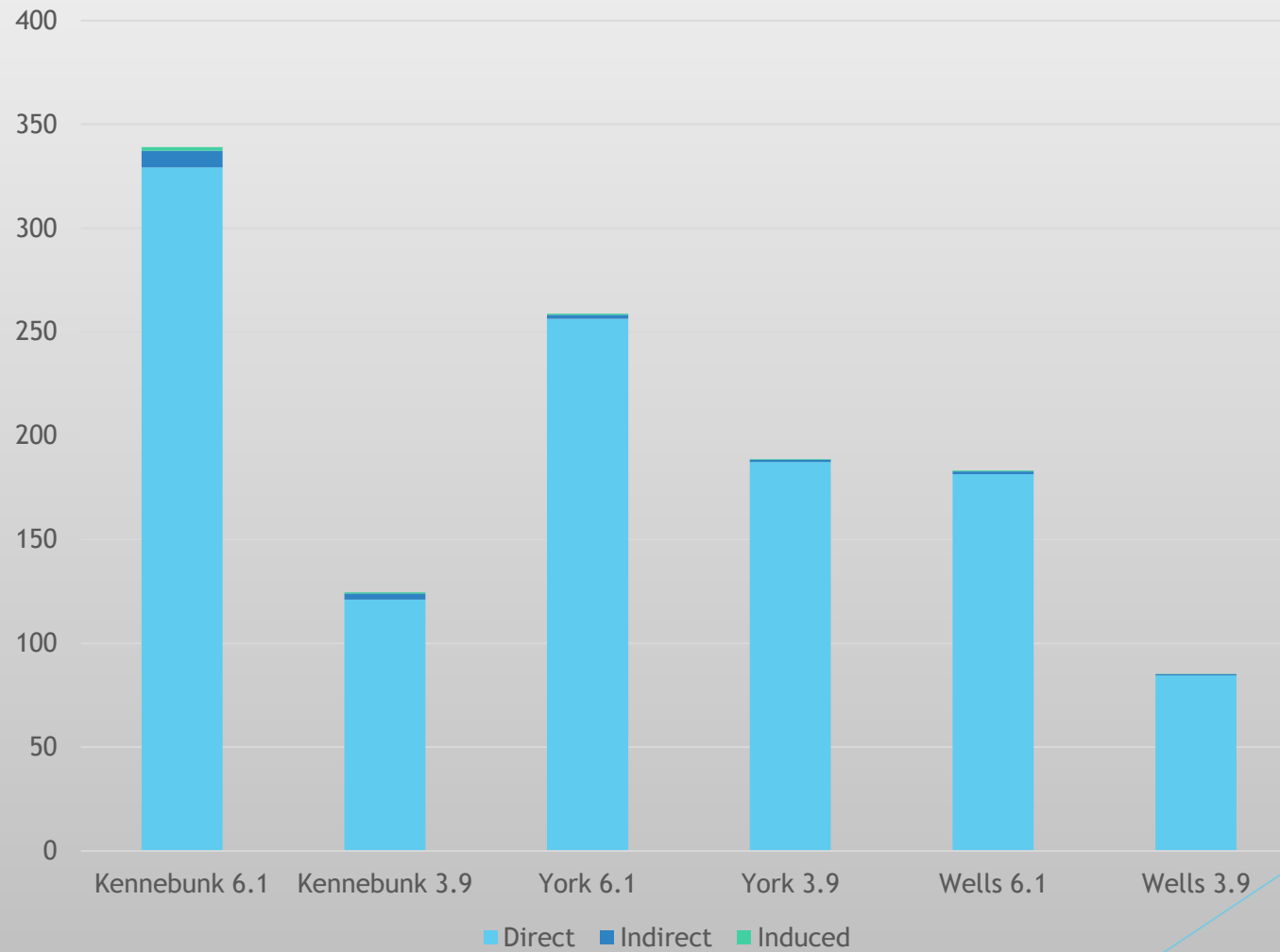
Methodology

- ▶ Obtained data on businesses from the Maine Department of Labor and Data Axle (a commercially available business database)
- ▶ Resulting dataset included 1,475 businesses in the three towns
- ▶ Using latitude and longitude data, Alex was able to indicate whether each business was in the affected zone. After deleting those businesses thought to be unaffected, 86 businesses remained (30 in York, 20 in Wells, and 36 in Kennebunk).
- ▶ Each business was then classified by industry and data on revenue and employment entered into IMPLAN.
- ▶ Data show output (gross revenue) and employment associated with the affected businesses.
- ▶ Results include direct, indirect, and induced effects.

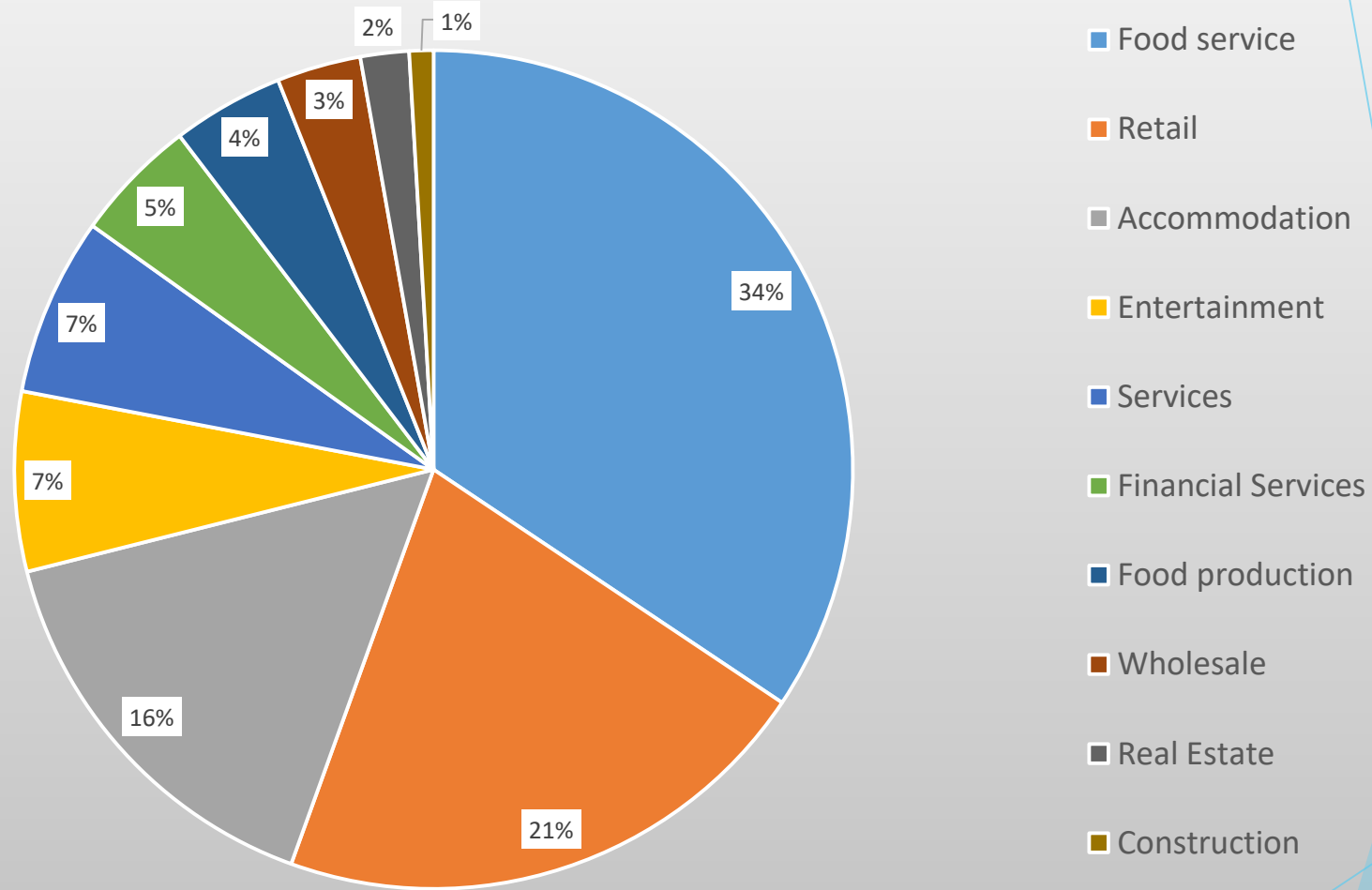
Output at Immediate Risk from 6.1 and 3.9 feet of SLR



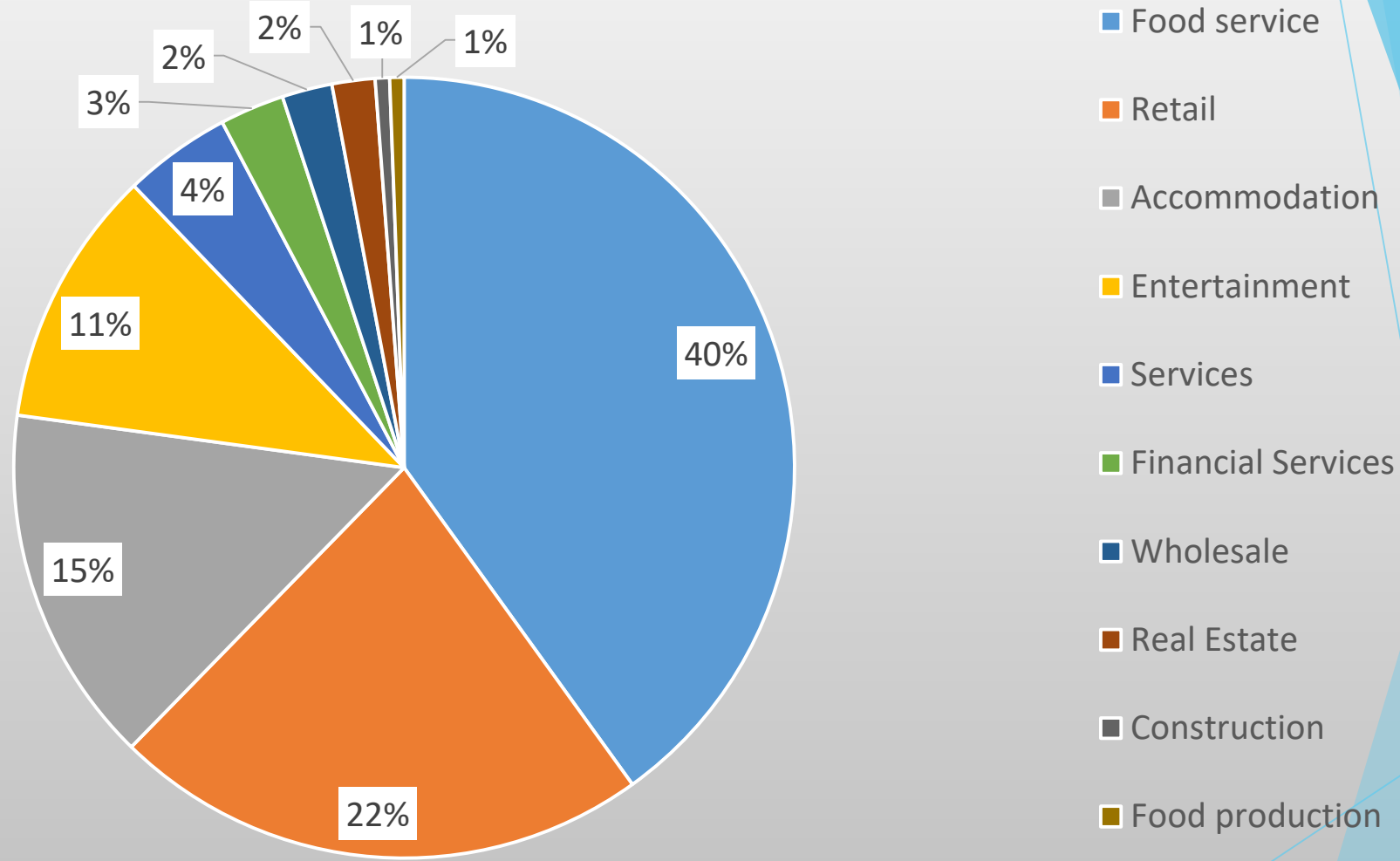
Employment at Immediate Risk from 6.1 and 3.9 feet of SLR



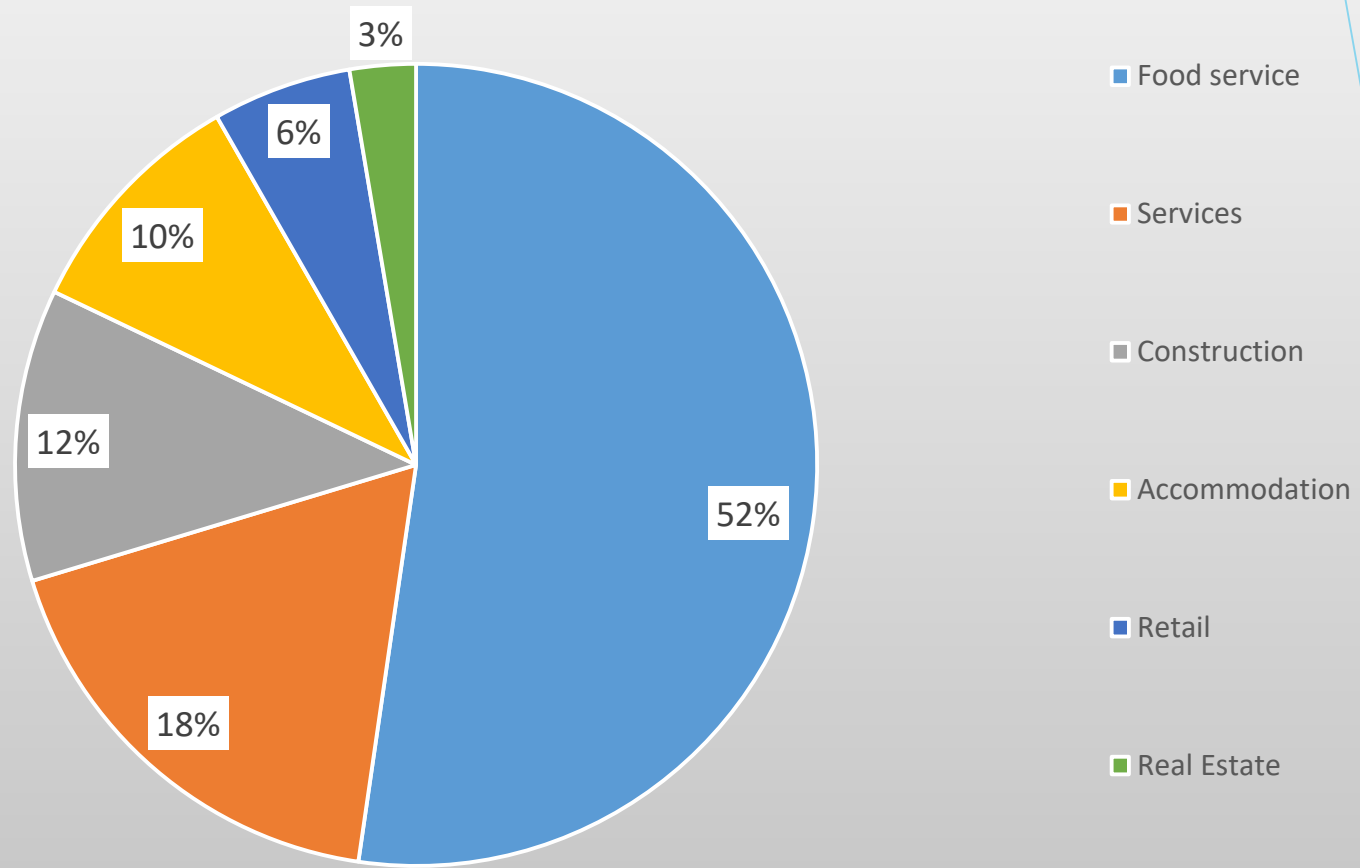
Industry Breakdown of Output at Risk from 6.1 feet of SLR: Kennebunk



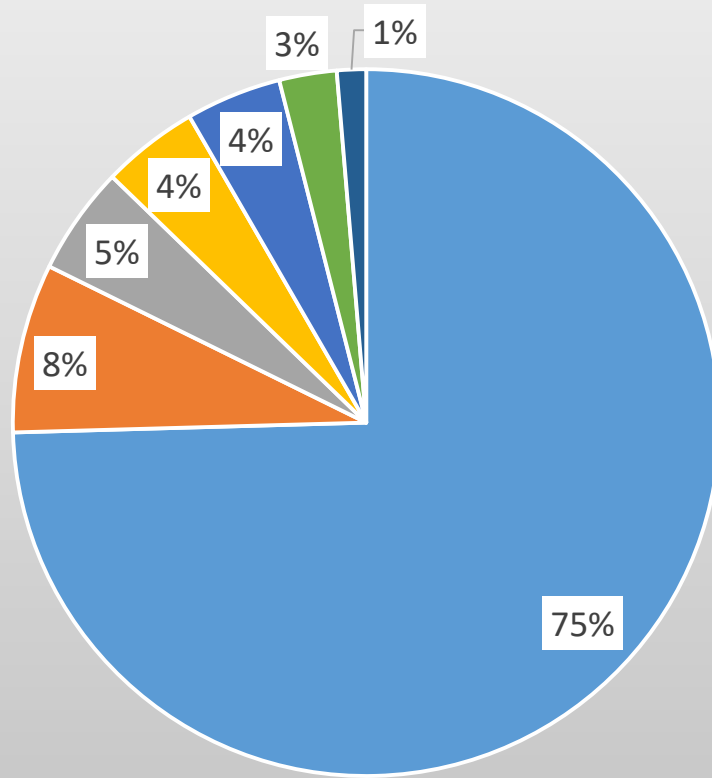
Industry Breakdown of Employment at risk from 6.1 feet of SLR: Kennebunk



Industry Breakdown of Output Associated with 6.1 feet of SLR: Wells

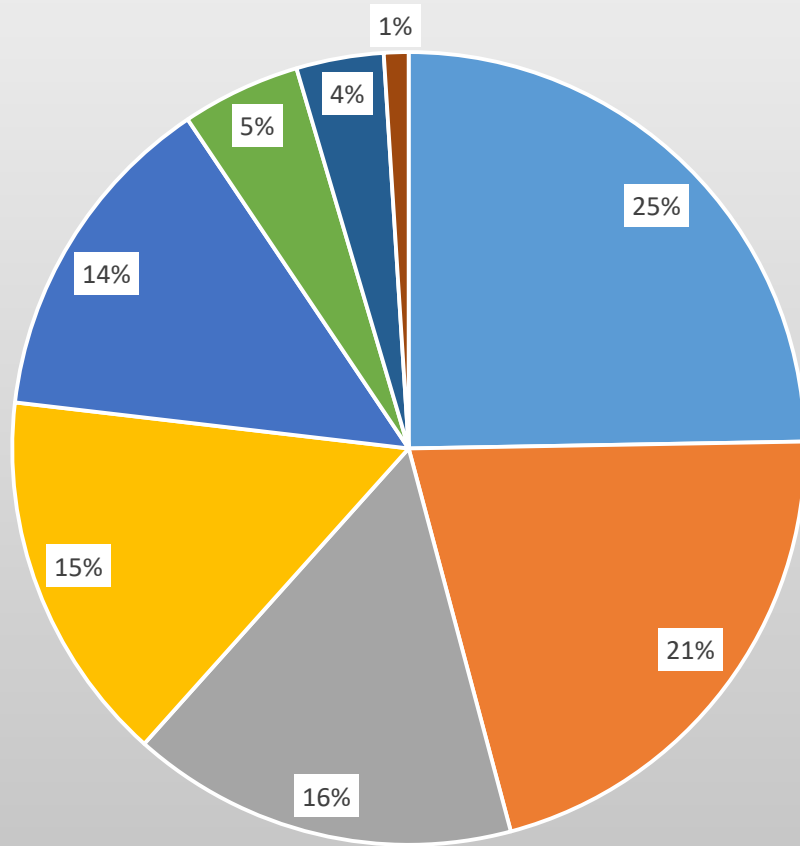


Industry Breakdown of Employment Associated with 6.1 feet of SLR: Wells



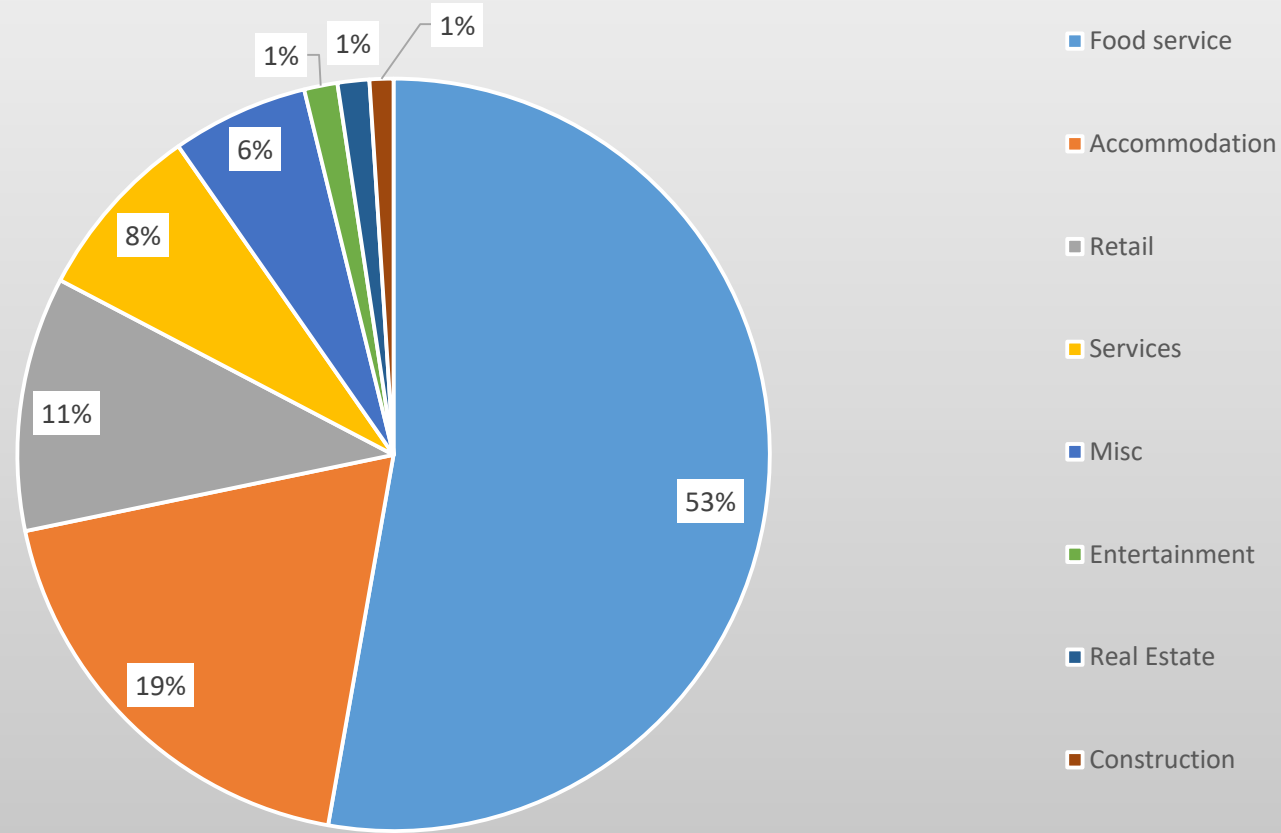
- Food service
- Services
- Retail
- Accommodation
- Misc
- Construction
- Real Estate

Industry Breakdown of Output Associated with 6.1 feet of SLR: York



- Food service
- Accommodation
- Services
- Misc
- Retail
- Construction
- Real Estate
- Entertainment

Industry Breakdown of Employment Associated with 6.1 feet of SLR: York



Property Tax Implications

	SLR (ft)	Kennebunk	Wells	York
Impacted Value in millions	1.6	\$110.5	\$433.2	\$101.9
	3.9	\$330.3	\$754.6	\$357.6
	6.1	\$489.1	\$1,080.6	\$554.9
Tax Rate (per thousand)		17.5	10.48	11.1
Property Tax Impacts	1.6	\$1.93 (11.9%)	\$4.81 (21.4%)	\$1.07 (4.8%)
in millions	3.9	\$5.78 (35.6%)	\$7.91 (35.2%)	\$3.75 (16.7%)
(percent of expenditures)	6.1	\$8.56 (52.7%)	\$11.32 (50.4%)	\$5.81 (26.0%)

	Example	Kennebunk	Wells	York
		6.1 feet		
Sales/Excise Tax	Meal, lodging, and "sin" taxes	\$18,600	\$3,200	\$3,500
Commercial Property Tax	Business property and real estate tax	\$1,234,800	\$212,600	\$233,100
Other Taxes	Licenses and fees	\$21,900	\$3,800	\$4,100
Total		\$1,275,300	\$219,600	\$30,700
		3.9 feet		
Sales/Excise Tax	Meal, lodging, and "sin" taxes	\$5,600	\$1,000	\$2,200
Commercial Property Tax	Business property and real estate tax	\$370,500	\$62,900	\$146,200
Other Taxes	Licenses and fees	\$6,600	\$1,100	\$2,600
Total		\$382,700	\$65,000	\$151,000

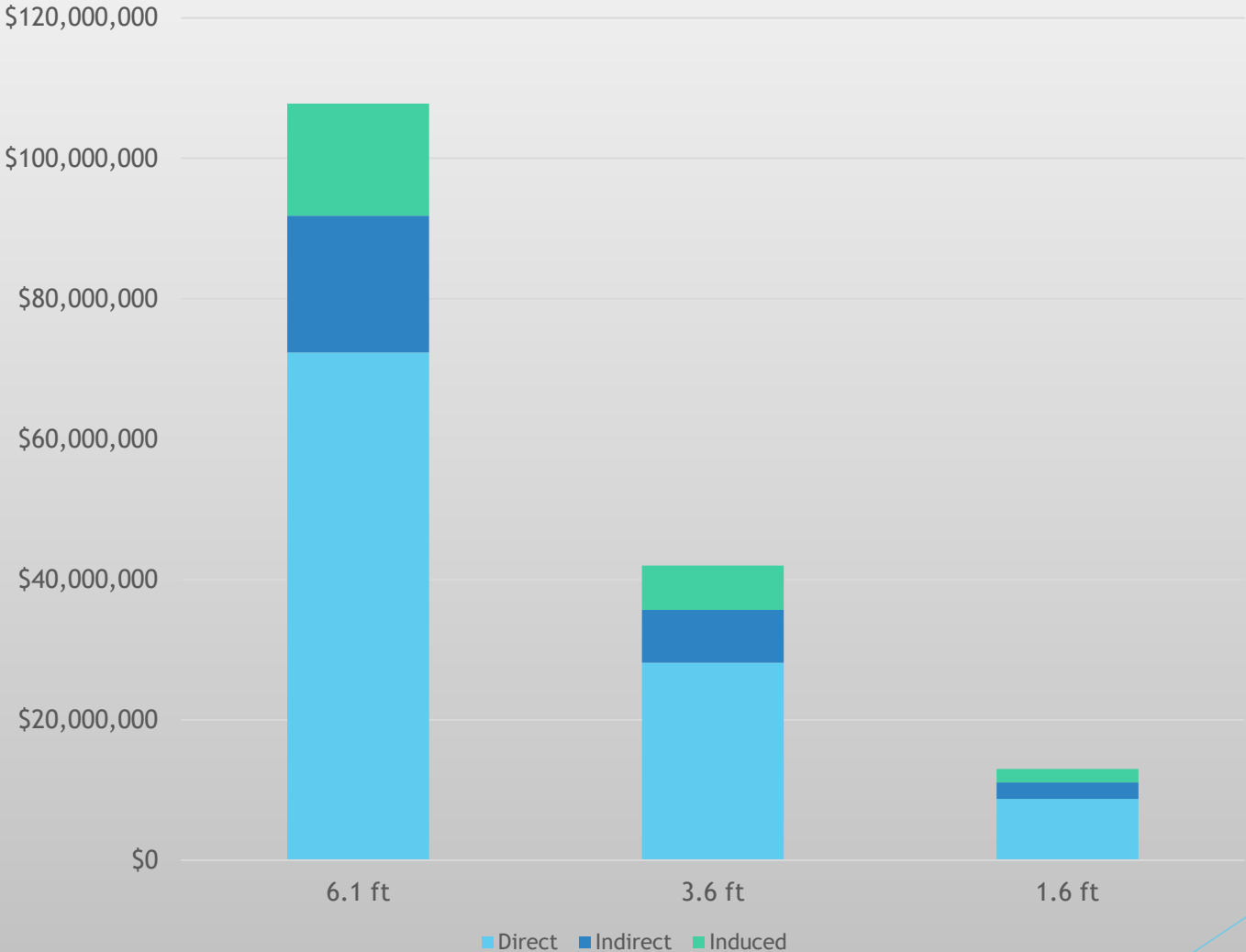


Percent Unoccupied Housing in Highest Affected Block Groups

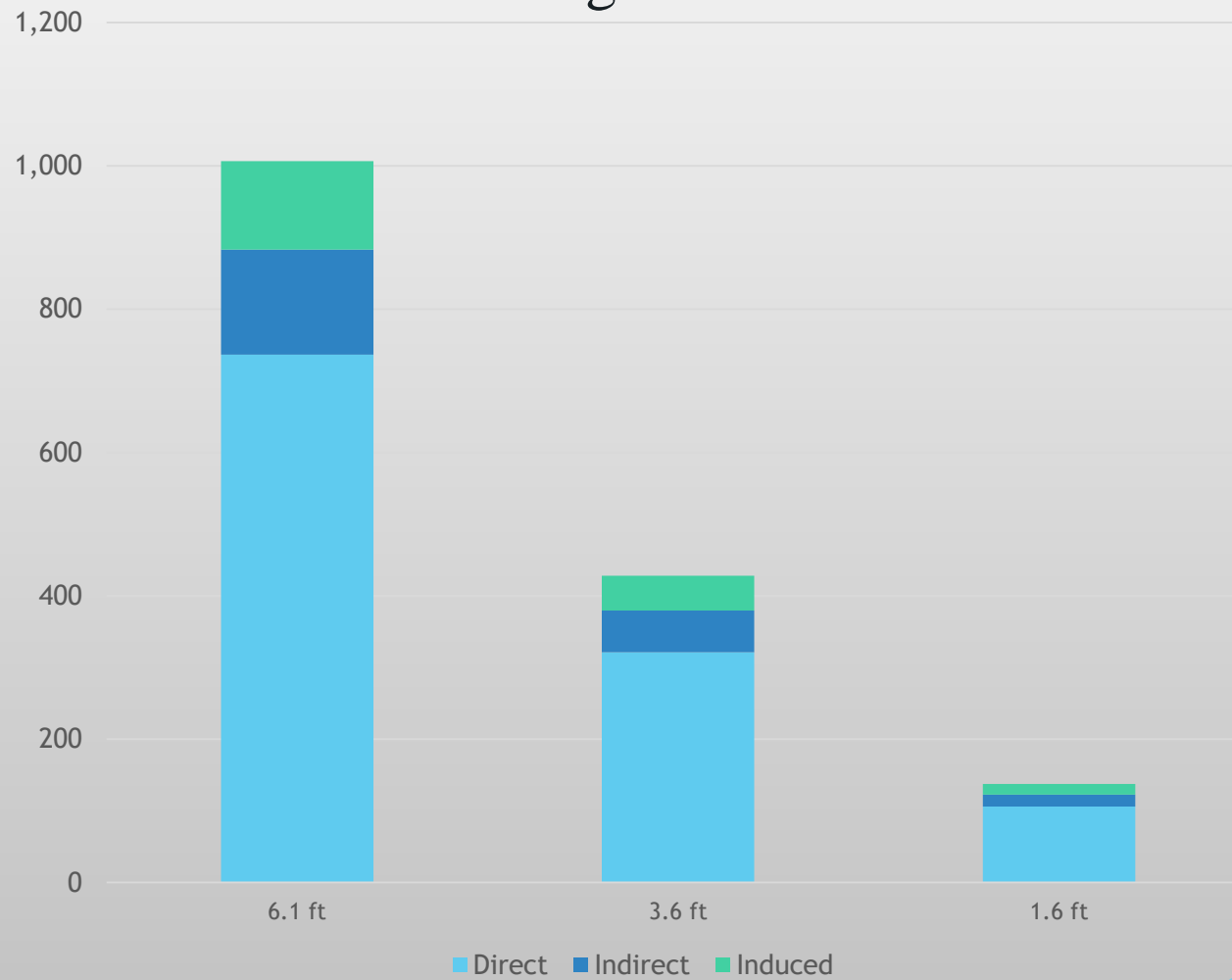
Block Group	Total Residences	Unoccupied	%Unoccupied
230310360012	1564	1275	82%
230310340015	1551	1253	81%
230310340014	964	568	59%
230310280022	949	547	58%
230310280021	896	124	14%
230310360015	278	165	59%

Impacts on the Wider Region

Output at Risk from SLR in combined region, using York County as reference region



Employment at Risk from SLR in combined region, using York County as reference region



Percent of Population/Labor Force Commuting Into/Out of Towns

	Percent of Labor Force Living Outside Town (2017)	Percent of Population Employed Outside Town (2017)
Kennebunk	78.3	76.5
Wells	76.5	82.2
York	66.8	66.3

Questions?