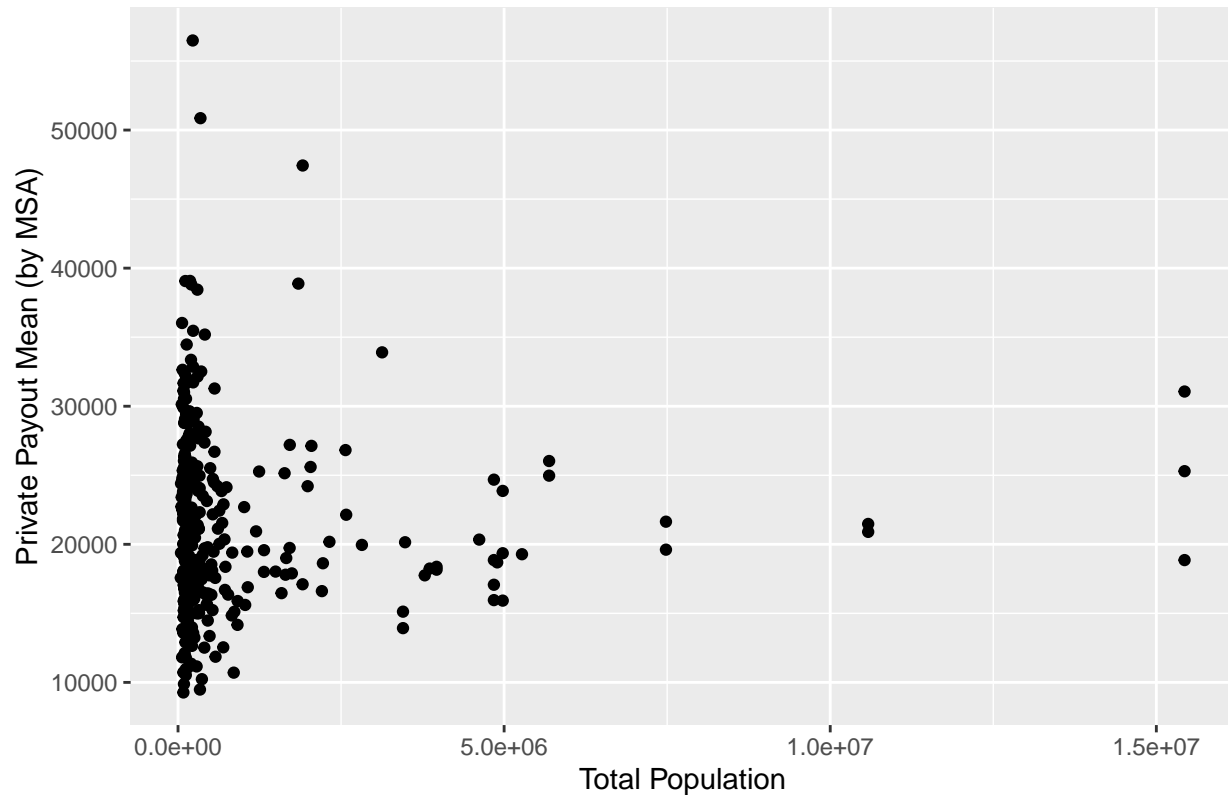


Additional Dataset Exploration

Population Data (S1811)

	msa	msa_priv_pay_mean	msa_priv_pay_median	Population
msa	1.00000000	0.13610614	0.1037573	0.02163852
msa_priv_pay_mean	0.13610614	1.00000000	0.8833339	0.01473646
msa_priv_pay_median	0.10375732	0.88333388	1.0000000	0.06267690
Population	0.02163852	0.01473646	0.0626769	1.00000000

Private Payout Mean by Population of MSA

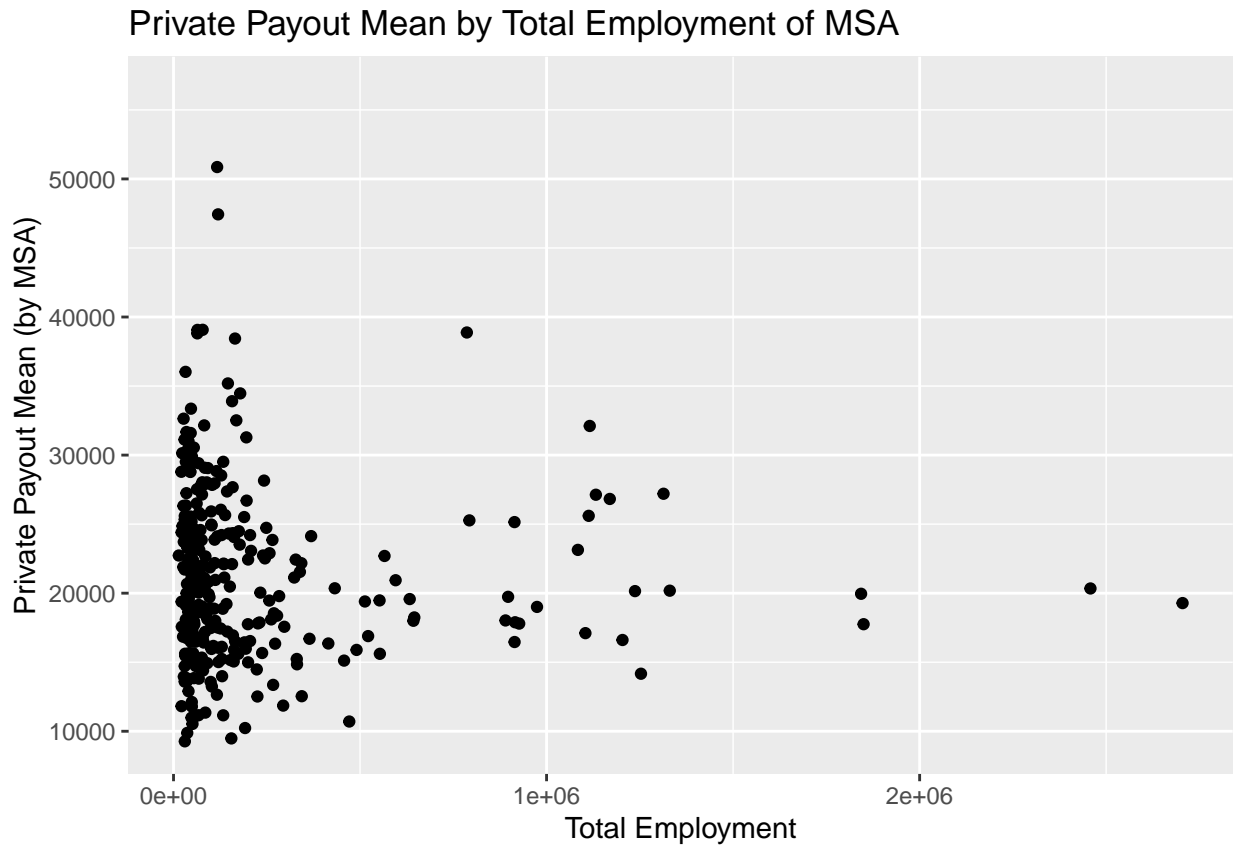


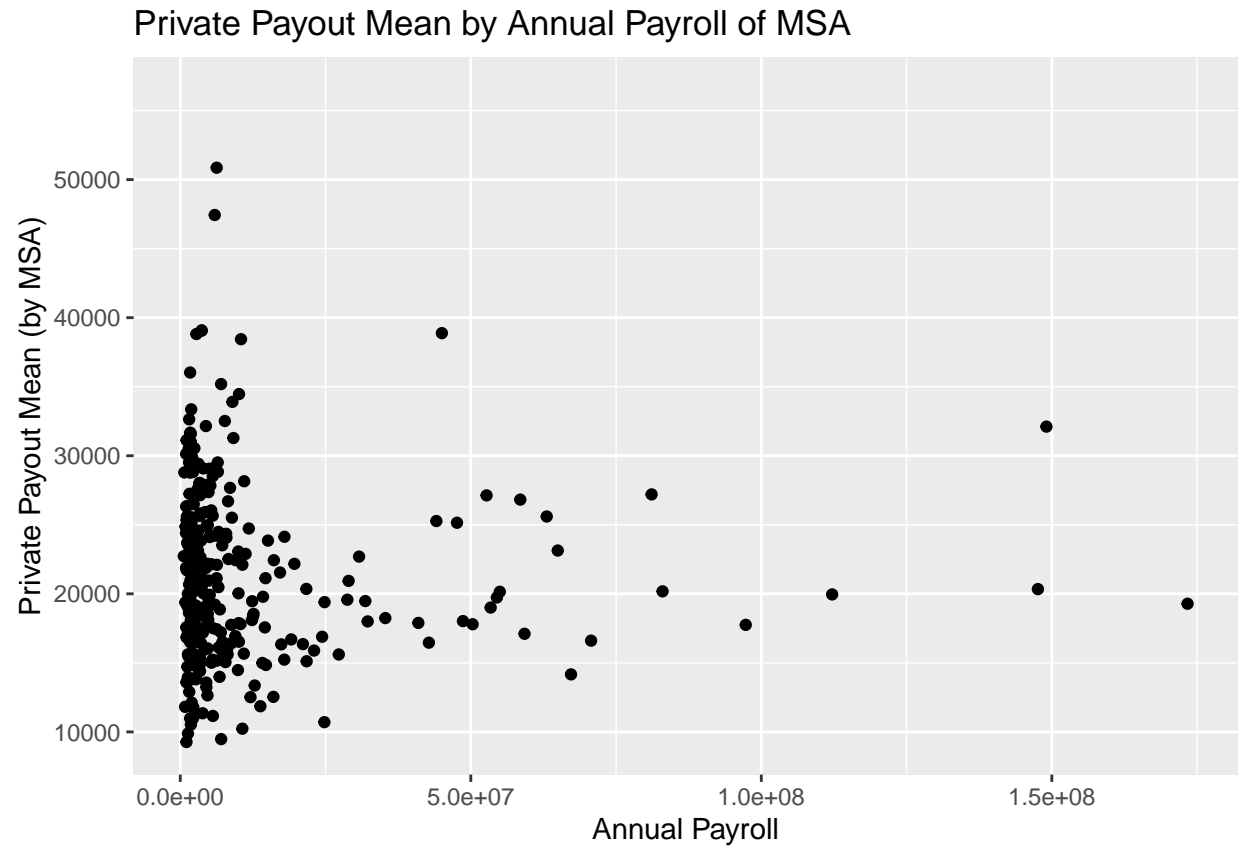
- Not seeing a ton of correlation between MSA population and private payouts
- Might be worth including in the model as it could still be significant
- Likely a better variable to include rather than employment or payroll

Total Employment and Annual Payroll

	msa	msa_priv_pay_mean	msa_priv_pay_median
msa	1.00000000	0.110391470	0.07831576
msa_priv_pay_mean	0.11039147	1.000000000	0.87308430
msa_priv_pay_median	0.07831576	0.873084298	1.00000000
emp	0.02751988	-0.041971419	0.04997187

ap	0.02451810	-0.007774726	0.07507217
	emp	ap	
msa	0.02751988	0.024518101	
msa_priv_pay_mean	-0.04197142	-0.007774726	
msa_priv_pay_median	0.04997187	0.075072171	
emp	1.00000000	0.968242798	
ap	0.96824280	1.000000000	





- Not seeing much correlation between MSA employment or annual payroll with private payments
- Seems more logical to use population rather than employment or annual payroll if we choose to use this type of feature in the model