

Preliminary Models - Pilot Survey Data

1. Model 1

Basic Model With only Cost parameter

	Estimate	Std_Error	t_value	p_value
b_asc	1.1920836	0.0473145709	25.19485	0
b_cost	-0.0025606	0.0001847027	-13.86336	0

Willingness to pay estimation from the basic model

	Estimate	SE	2.5 %	97.5 %
$-(b_asc)/(b_cost)$	465.548	31.305	404.192	526.91

2. Model 2

Add the water quality parameter, without discriminating locality.

	Estimate	Std_Error	t_value	p_value
b_asc	1.009555046	0.0566773580	17.812317	0.000000e+00
b_cost	-0.002578611	0.0001859266	-13.868969	0.000000e+00
b_wq	-0.289457517	0.0508214681	-5.695576	1.229563e-08

3. Model 3

Here we use more diversified water quality parameters that are defined based on respondents locality. The definition of the variables as follows:

- b_wq_local = WQ score for the respondents local basin
- $b_wq_nonlocal$ = WQ score for the respondents non-local basin

	Estimate	Std_Error	t_value	p_value
b_asc	1.00335238	0.0568286675	17.655744	0.000000e+00
b_cost	-0.00256412	0.0001866487	-13.737677	0.000000e+00
b_wq_local	-0.38982210	0.0641601757	-6.075764	1.233986e-09
b_wq_nonlocal	-0.20750119	0.0590213184	-3.515699	4.385980e-04

The coefficient for b_wq_home and b_wq_local_sub_basin are not showing the expected sign.

4. Model 4

Here we further divide based on whether WQ changes occurred at local basin, local sub basin, non-local basin and non-local sub basin. The definition of the variables as follows:

- b_wq_local_basin = WQ score for the respondents local basin; =0 if policy involves different spatial unit
- b_wq_nonlocal_basin = WQ score for the respondents non-local basin; =0 if policy involves different spatial unit
- b_wq_local_sub_basin = WQ score for the respondents local sub-basin; =0 if policy involves different spatial unit
- b_wq_nonlocal_sub_basin = WQ score for the respondents non-local subbasin; =0 if policy involves different spatial unit

	Estimate	Std_Error	t_value	p_value
b_asc	1.155766378	0.095414702	12.1130848	0.0000000000
b_cost	-0.002561277	0.000186295	-13.7484974	0.0000000000
b_wq_local_basin	-0.227453467	0.076216849	-2.9842937	0.002842338
b_wq_nonlocal_basin	-0.150062726	0.071990356	-2.0844837	0.037116187
b_wq_local_sub_basin	0.016381821	0.045154428	0.3627955	0.716757686
b_wq_nonlocal_sub_basin	-0.015804761	0.030124176	-0.5246537	0.599823934

5. Model 5

Add WQ within their home local sub basin

- b_wq_home = WQ score for sub-watershed where respondents lives; =0 for non-local voting scenario (if choice is made based on their local sub-basin or basin that include their local sub-basin then we use the WQ score for particular sub-basin)
- b_wq_local_basin = WQ score for the respondents local basin; =0 if policy involves different spatial unit

- `b_wq_nonlocal_basin` = WQ score for the respondents non-local basin; =0 if policy involves different spatial unit
- `b_wq_local_sub_basin` = WQ score for the respondents local sub-basin; =0 if policy involves different spatial unit
- `b_wq_nonlocal_sub_basin` = WQ score for the respondents non-local subbasin; =0 if policy involves different spatial unit

	Estimate	Std_Error	t_value	p_value
<code>b_asc</code>	1.143741618	0.1103227804	10.3672298	0.00000000
<code>b_cost</code>	-0.002560088	0.0001864618	-13.7298279	0.00000000
<code>b_wq_home</code>	-0.060440514	0.0666740216	-0.9065077	0.36466719
<code>b_wq_local_basin</code>	0.171762401	0.0730775211	2.3504136	0.01875256
<code>b_wq_nonlocal_basin</code>	0.104301712	0.0659565260	1.5813706	0.11379332
<code>b_wq_local_sub_basin</code>	-0.012875005	0.0549992648	-0.2340941	0.81491191
<code>b_wq_nonlocal_sub_basin</code>	-0.011838498	0.0350849176	-0.3374241	0.73579719