

**Responses of Nebraska Public  
Power District, Omaha Public  
Power District, and Lincoln  
Electric System Customers to the  
2012 Nebraska Annual Social  
Indicators Survey Wind Energy  
and Wildlife Questions**

Nebraska Wind Energy and Wildlife Project



June 2013



Responses of Nebraska Public Power District, Omaha Public Power District,  
and Lincoln Electric System Customers to the 2012 Nebraska Annual Social  
Indicators Survey Wind Energy and Wildlife Questions  
June 2013

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## Introduction

Eight questions related to wind energy development and wildlife resources were submitted to the Nebraska Annual Social Indicators Survey (NASIS) to learn more about Nebraskan's knowledge and perceptions of wind energy development and its potential impacts on wildlife resources. The NASIS is an omnibus survey of quality of life in the state of Nebraska that has been conducted since 1977. The NASIS is a joint effort of the Bureau of Sociological Research, Department of Sociology at the University of Nebraska-Lincoln, several state and private non-profit agencies, and other university departments. Each year, NASIS contains a core group of demographic, quality-of-life, and sociological indicators questions. The additional questions included in the survey vary annually and depend upon the data needs of interested researchers who contribute funds towards the cost of the survey in proportion to their data needs. Researcher's questions are reviewed for clarity and bias and formatted for a mail survey. A pre-test of the survey is conducted and changes are made based on the results. A random sample of 3,600 Nebraska addresses was selected to participate in 2012 NASIS. The sample includes U.S. Postal Service addresses for individuals and households selected with a postal delivery sequence based on household addresses.

## Methods

Survey participants were categorized as a customer of the Public Power Districts (PPD) based on the county of their residence (Appendix A). All participants from Lancaster County were classified as Lincoln Electric System (LES) customers. All participants from the thirteen counties listed on the Omaha Public Power District (OPPD) website ([http://www.oppd.com/ResidentialCustomers/22\\_001280](http://www.oppd.com/ResidentialCustomers/22_001280)) were classified as OPPD customers. Participants from all other counties were classified as Nebraska Public Power District (NPPD) customers.

## Data Analysis

Each of the survey questions contained a Likert-type scale the participants used to express their opinion. For questions 1 and 4-8, six response categories were used including a 'Do not know' category. For questions 2 and 3, an additional response category was added, 'Would not do these activities anywhere.' For each question the frequency of each response in each category was tallied and a percentage was determined; the percent of responses for each category are graphically displayed. For statistical analysis, responses in the 'Do not know' and 'Would not do these activities anywhere' were not included. The median response for each category for each question was compared among and between PPDs to determine if responses from one PPD were significantly different from those of other PPDs. Mann-Whitney Rank Sum tests were used to compare median value between two groups and Anova on Ranks to compare the median value of three groups. Pearson Correlation was used to analyze relationships between question responses.

## NASIS 2012 Wind Energy – Wildlife Survey Questions

### 1. Do you support or oppose wind energy development in Nebraska?

Strongly oppose, Oppose, Neither oppose nor support, Support, Strongly support, Don't know

### 2. How likely or unlikely are you to go fishing, hunting, hiking, bird watching or engage in other recreational activities within 1 mile of a wind turbine?

Very unlikely, Unlikely, Neither unlikely or likely, Somewhat likely, Very likely, Would not do these activities anywhere, Don't know

### 3. How likely or unlikely are you to go fishing, hunting, hiking, bird watching or engage in other recreational activities within sight of a wind turbine?

Very unlikely, Unlikely, Neither unlikely or likely, Somewhat likely, Very likely, Would not do these activities anywhere, Don't know

### 4. Are you concerned or unconcerned that birds and bats are killed as a result of wind energy development?

Very concerned, Somewhat concerned, Neither concerned nor unconcerned, Somewhat unconcerned, Very unconcerned, Don't know

### 5. Do you agree or disagree that wind energy facility (i.e. wind farm) development and operation should have to take precautions to reduce impacts on wildlife?

Strongly disagree, Disagree, Neither disagree nor agree, Agree, Strongly agree, Don't know

### 6. How likely or unlikely are you to pay \$2 more a month on your electricity bill to support wind energy development?

Very unlikely, Unlikely, Neither unlikely or likely, Somewhat likely, Very likely, Don't know

### 7. If wind energy development was planned in a manner that reduces impacts on wildlife resources, how likely or unlikely would you be to pay \$2 more per month on your electricity bill to support wind energy development?

Very unlikely, Unlikely, Neither unlikely or likely, Somewhat likely, Very likely, Don't know

### 8. How likely or unlikely are you to support the placement of wind turbines on the following...

a. Croplands

b. Grasslands

c. Wetlands

d. River valleys

e. Recreational lands

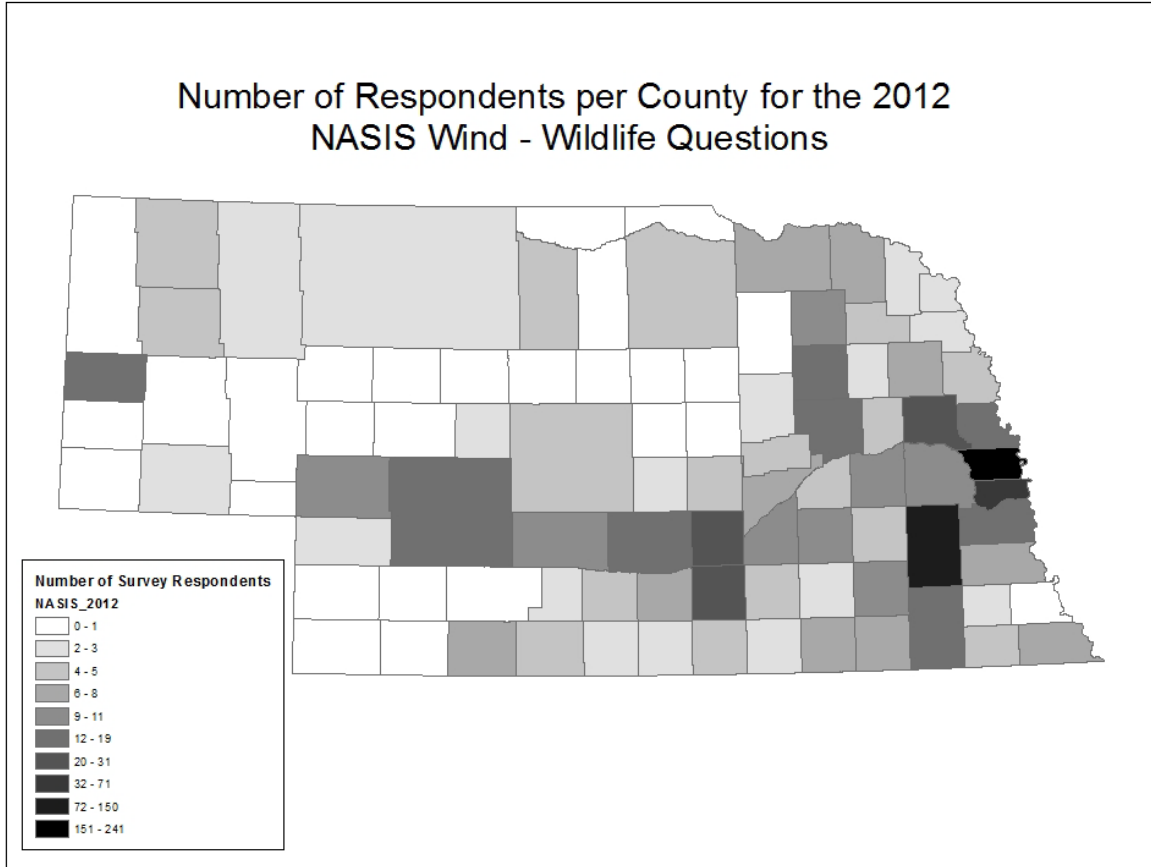
f. Residential lands

g. Industrial lands

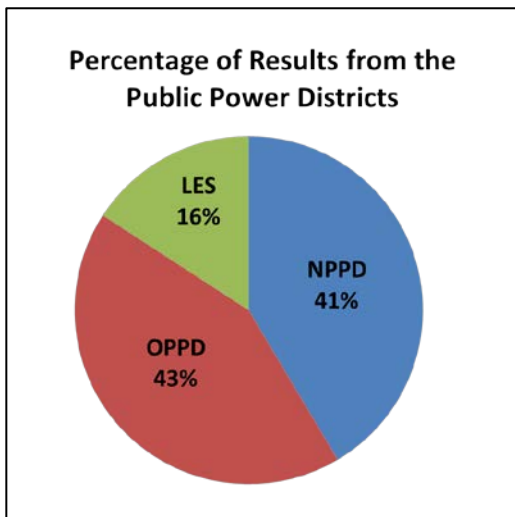
Very unlikely, Unlikely, Neither unlikely or likely, Somewhat likely, Very likely, Don't know

## Results

A total of 954 Nebraskans completed the NASIS for a response rate of 27.2%; 947 Nebraskans responded to the wind energy and wildlife questions. Distribution of survey respondents for each county are listed in Appendix A



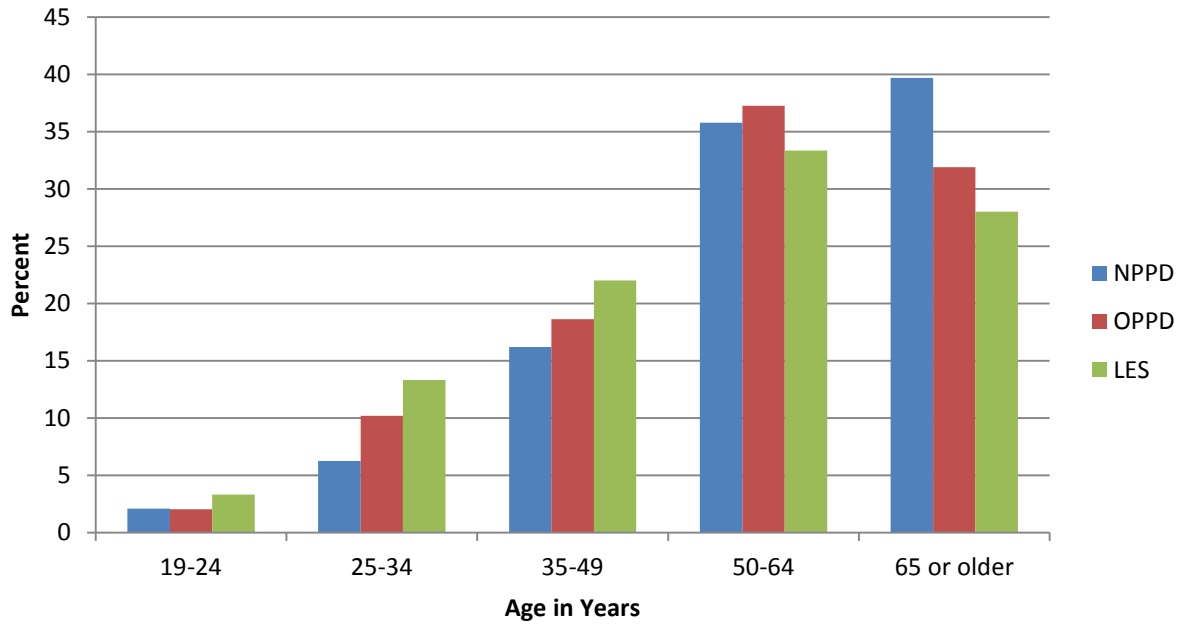
## Distribution of Results from the Public Power Districts



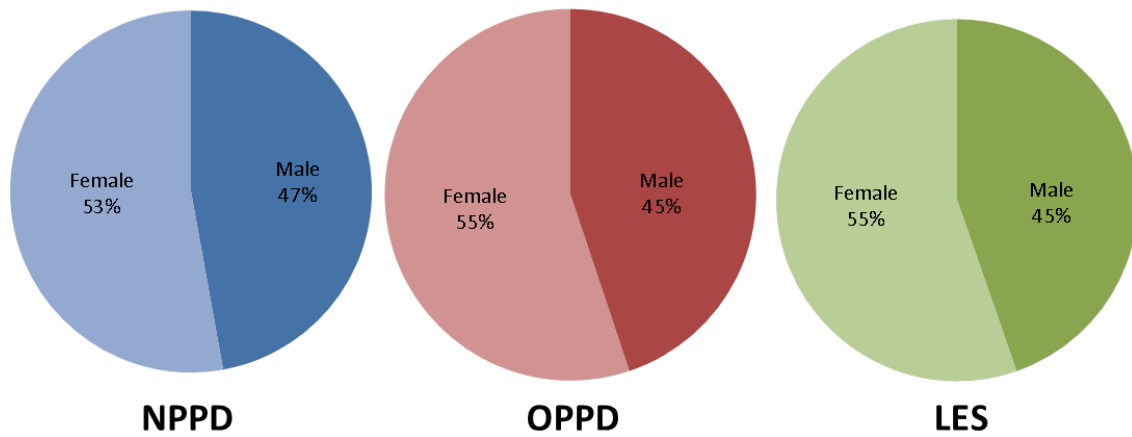
Variables	Frequency	%
NPPD	393	41.49
OPPD	404	42.66
LES	150	15.84
<b>TOTAL</b>	<b>947</b>	



## Age Distribution of Respondents



## Comparison of Male and Female Respondents

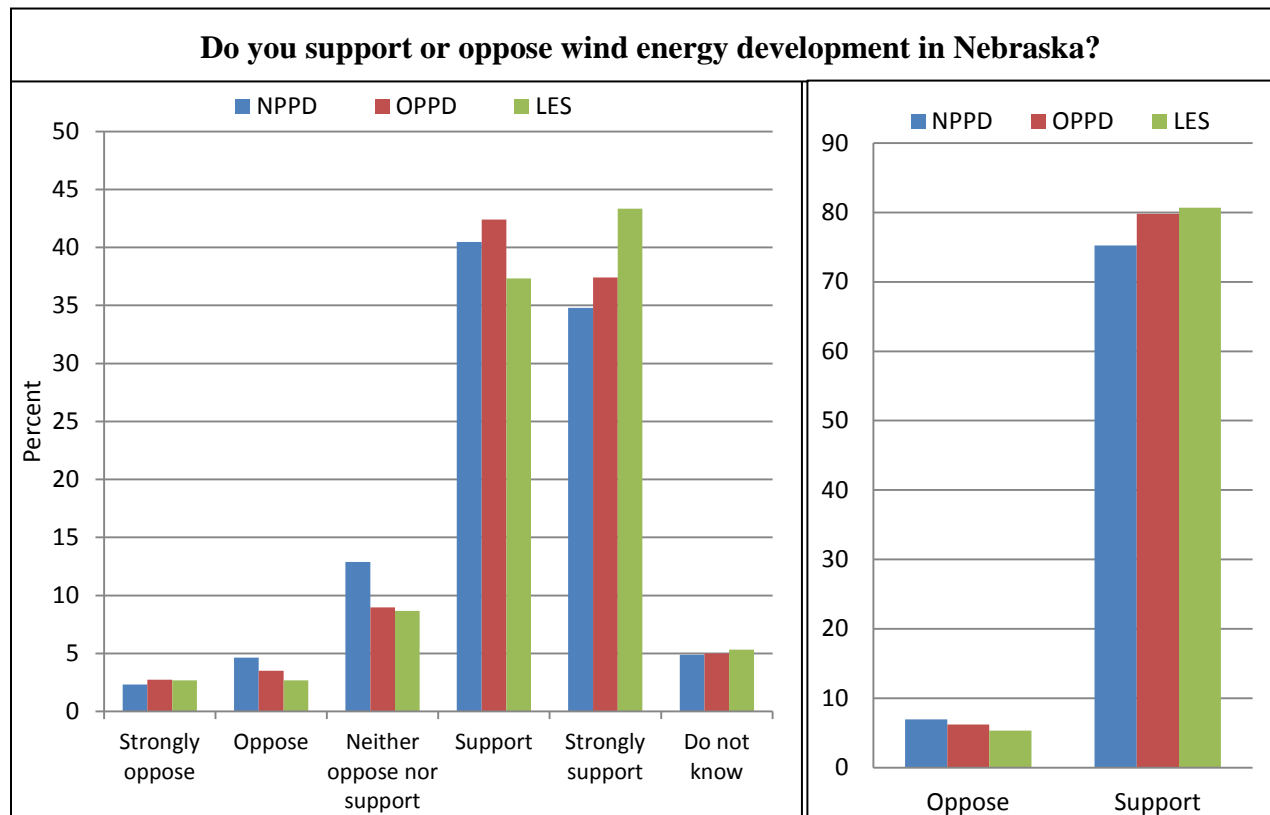


## Comparison of Responses from NPPD, OPPD, and LES Customers

### 1. Do you support or oppose wind energy development in Nebraska?

	Percent (%)		
	NPPD	OPPD	LES
Strongly oppose	2.32	2.74	2.67
Oppose	4.64	3.49	2.67
Neither oppose nor support	12.89	8.98	8.67
Support	40.46	42.39	37.33
Strongly support	34.79	37.41	43.33
Do not know	4.90	4.99	5.33
<i>Categories Combined</i>			
Oppose	6.96	6.23	5.34
Neither oppose nor support	12.89	8.98	8.67
Support	75.25	79.8	80.66
Do not know	4.9	4.99	5.33

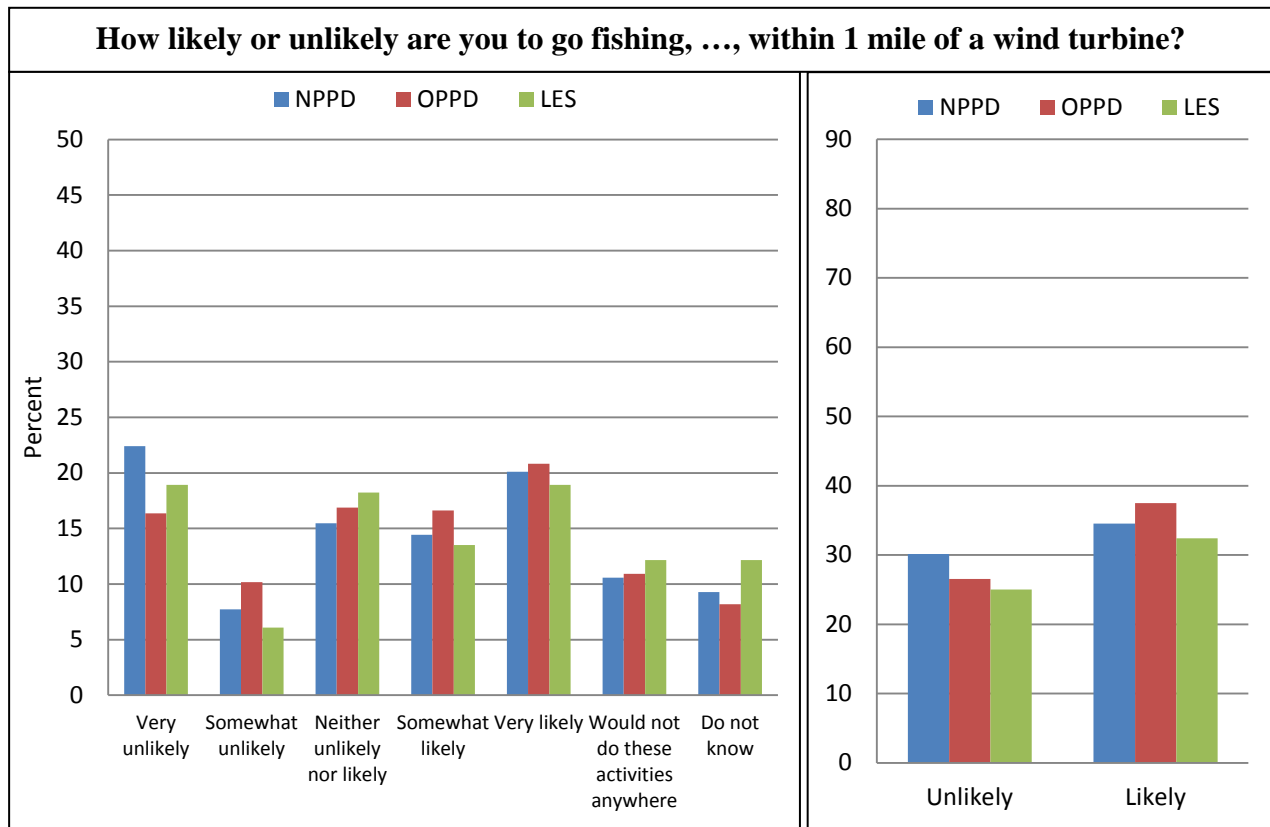
There are no significant differences in responses between NPPD, OPPD, and LES customer's support of wind energy development ( $p = 0.097$ ).



**2. How likely or unlikely are you to go fishing, hunting, hiking, bird watching, or engage in other recreational activities within 1 mile of a wind turbine?**

	Percent %		
	NPPD	OPPD	LES
Very unlikely	22.42	16.38	18.92
Unlikely	7.73	10.17	6.08
Neither unlikely or likely	15.46	16.87	18.24
Somewhat likely	14.43	16.63	13.51
Very likely	20.1	20.84	18.92
Would not do these activities anywhere	10.57	10.92	12.16
Do not know	9.28	8.19	12.16
<i>Categories Combined</i>			
Unlikely	30.15	26.55	25
Neither unlikely or likely	15.46	16.87	18.24
Likely	34.53	37.47	32.43
Would not do these activities anywhere	10.57	10.92	12.16
Do not know	9.28	8.19	12.16

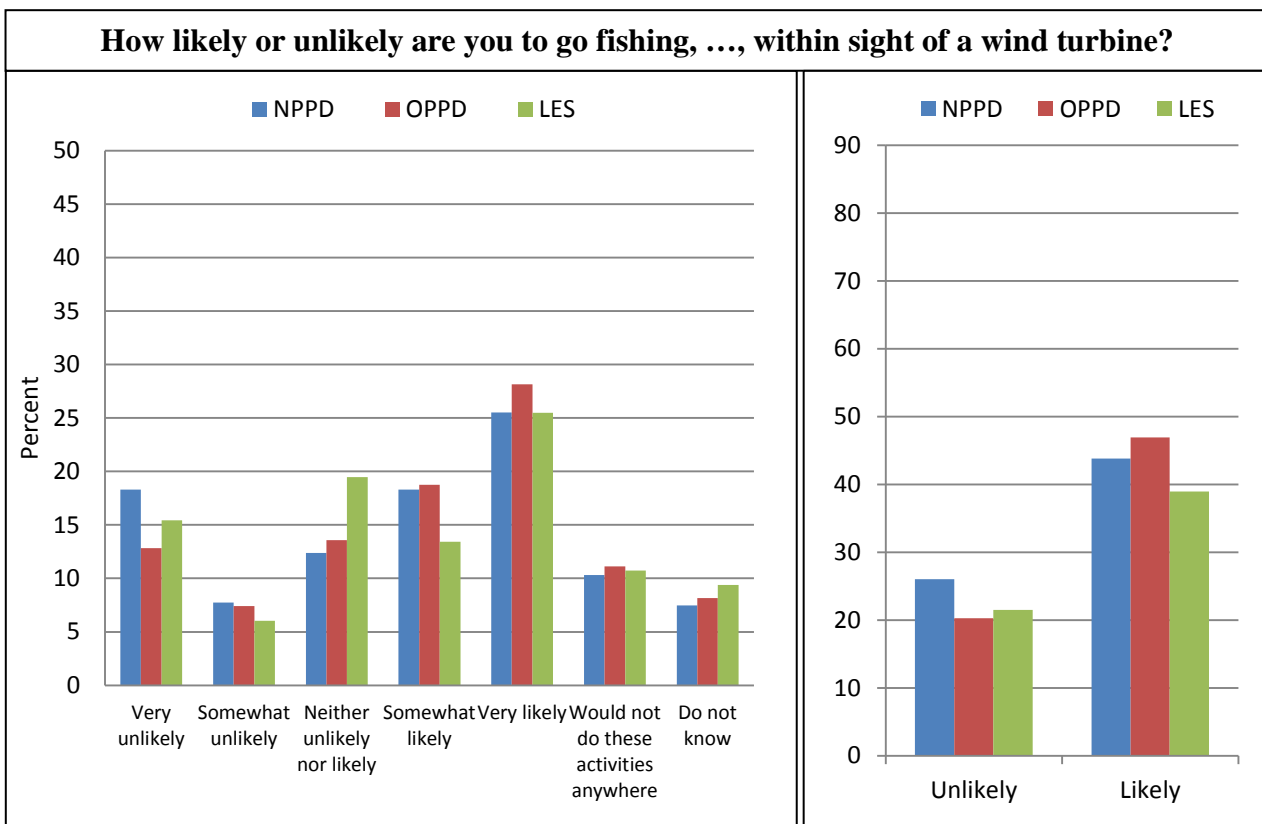
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood to recreate within one mile of a wind turbine ( $p = 0.430$ ).



**3. How likely or unlikely are you to go fishing, hunting, hiking, bird watching or engage in other recreational activities within sight of a wind turbine?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	18.30	12.84	15.44
Unlikely	7.73	7.41	6.04
Neither unlikely or likely	12.37	13.58	19.46
Somewhat likely	18.30	18.77	13.42
Very likely	25.52	28.15	25.50
Would not do these activities anywhere	10.31	11.11	10.74
Do not know	7.47	8.15	9.40
<i>Categories Combined</i>			
Unlikely	26.03	20.25	21.48
Neither unlikely or likely	12.37	13.58	19.46
Likely	43.82	46.92	38.92
Would not do these activities anywhere	10.31	11.11	10.74
Do not know	7.47	8.15	9.4

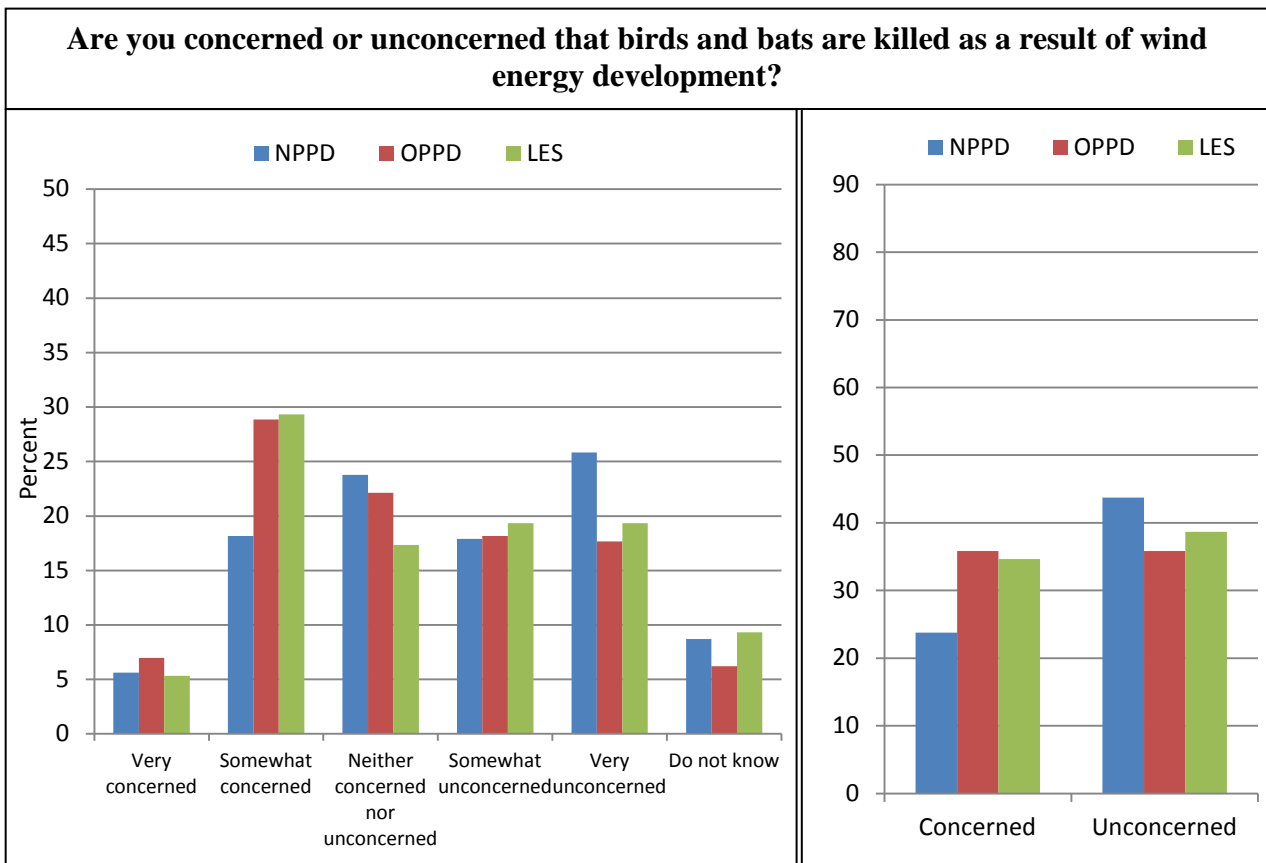
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood to recreate within sight mile of a wind turbine ( $p = 0.205$ ).



#### 4. Are you concerned or unconcerned that birds and bats are killed as a result of wind energy development?

	Percent (%)		
	NPPD	OPPD	LES
Very concerned	5.63	6.97	5.33
Concerned	18.16	28.86	29.33
Neither concerned or unconcerned	23.79	22.14	17.33
Somewhat unconcerned	17.9	18.16	19.33
Very unconcerned	25.83	17.66	19.33
Do not know	8.7	6.22	9.33
<i>Categories Combined</i>			
Concerned	23.79	35.83	34.66
Neither concerned or unconcerned	23.79	22.14	17.33
Somewhat unconcerned	43.73	35.82	38.66
Do not know	8.7	6.22	9.33

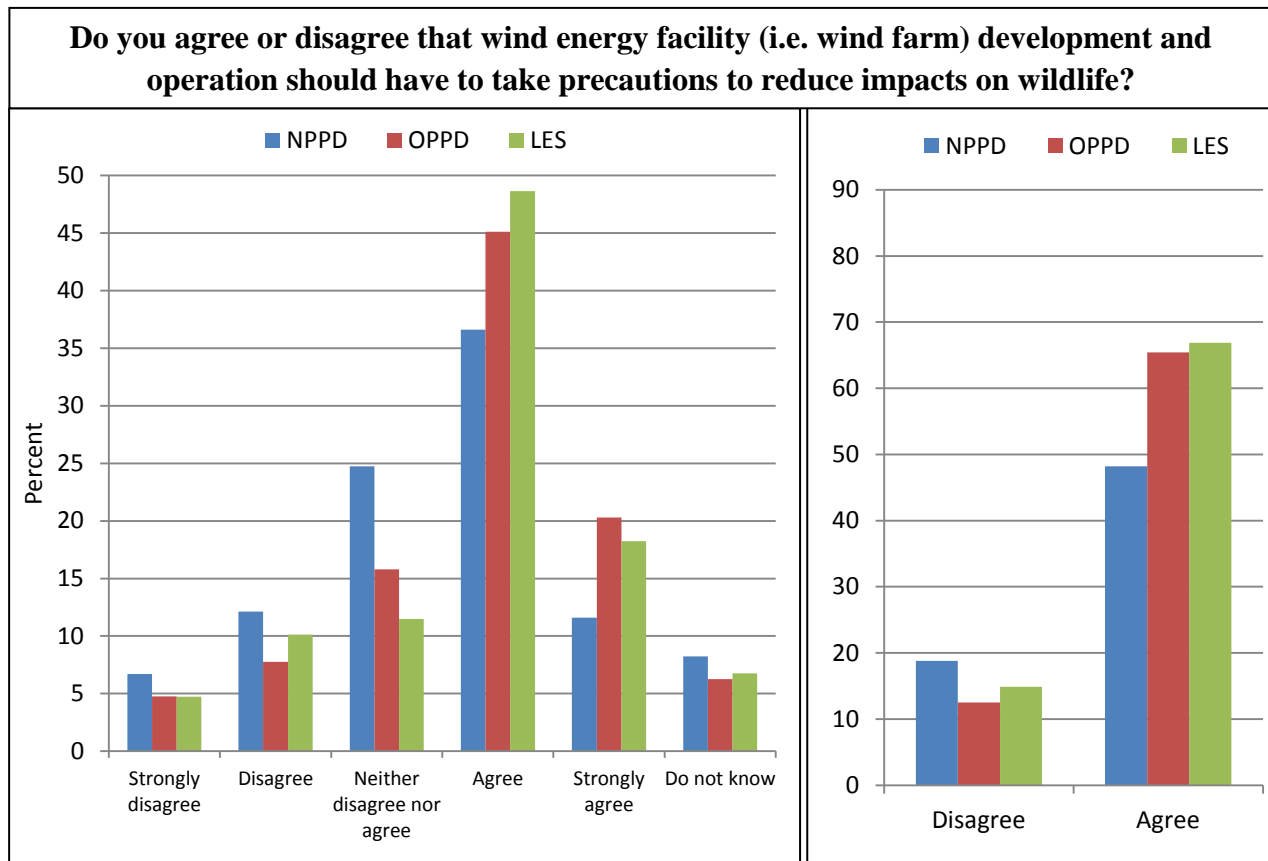
There are no significant differences in responses between LES and OPPD customer's concern for bird and bat fatalities resulting from wind energy development ( $p = 0.541$ ). OPPD and LES customers are more concerned than NPPD customers that birds and bats can be killed as a result of wind energy development ( $p \leq 0.001$ ,  $p = 0.029$ , respectively).



**5. Do you agree or disagree that wind energy facility (i.e. wind farm) development and operation should have to take precautions to reduce impacts on wildlife?**

	Percent (%)		
	NPPD	OPPD	LES
Strongly disagree	6.70	4.76	4.73
Disagree	12.11	7.77	10.14
Neither disagree nor agree	24.74	15.79	11.49
Agree	36.60	45.11	48.65
Strongly agree	11.60	20.30	18.24
Do not know	8.25	6.27	6.76
<i>Categories Combined</i>			
Disagree	18.81	12.53	14.87
Neither disagree nor agree	24.74	15.79	11.49
Agree	48.20	65.41	66.89
Do not know	8.25	6.27	6.76

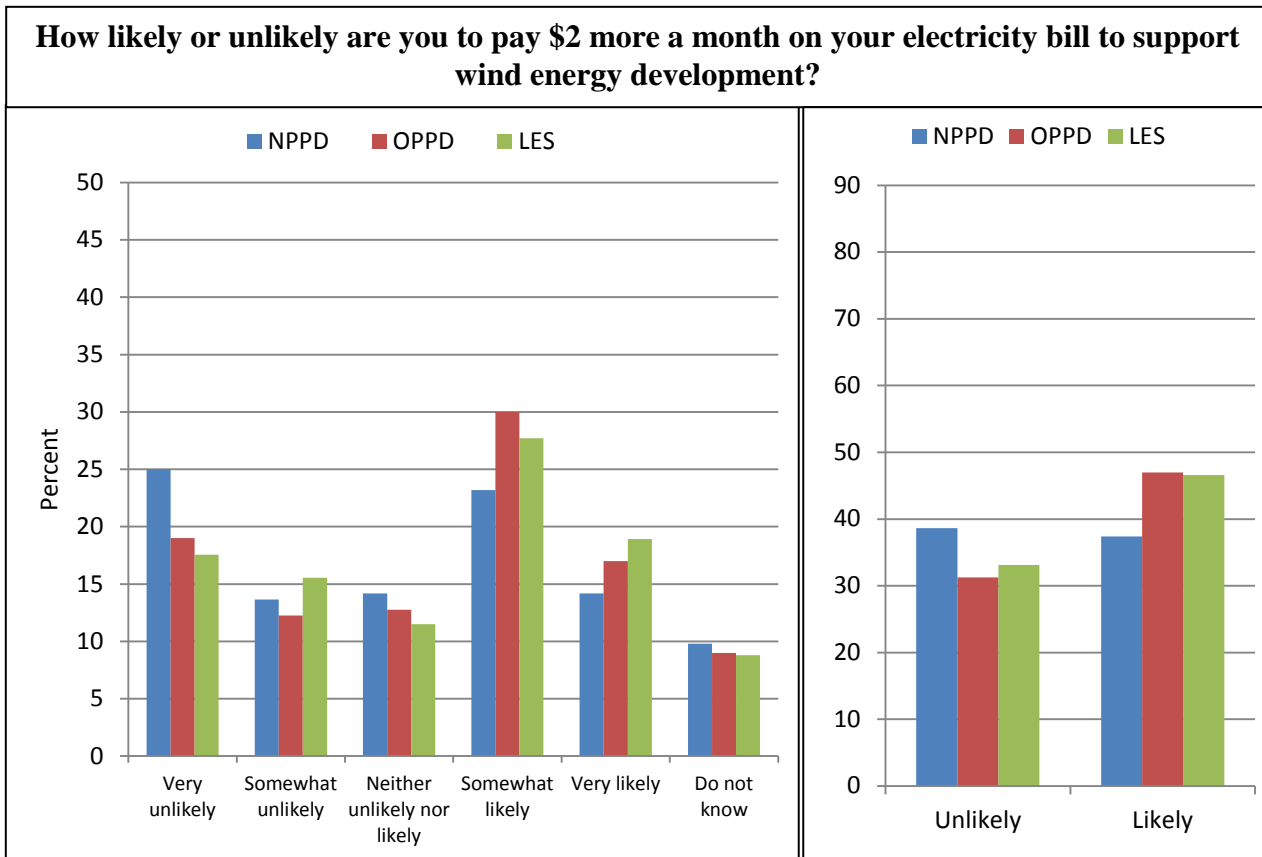
There are no significant differences in responses between LES and OPPD customer’s opinions that wind energy facility development and operation should have to take precautions to reduce impacts on wildlife ( $p = 0.876$ ). OPPD and LES customers agree more strongly than NPPD customers that precautions should be taken to reduce impacts on wildlife ( $p \leq 0.001$ ,  $p = 0.001$ , respectively).



**6. How likely or unlikely are you to pay \$2 more a month on your electricity bill to support wind energy development?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	25.00	19.00	17.57
Unlikely	13.66	12.25	15.54
Neither unlikely or likely	14.18	12.75	11.49
Somewhat likely	23.20	30.00	27.70
Very likely	14.18	17.00	18.92
Do not know	9.79	9.00	8.78
<i>Categories Combined</i>			
Unlikely	38.66	31.25	33.11
Neither unlikely or likely	14.18	12.75	11.49
Somewhat likely	37.38	47.00	46.62
Do not know	9.79	9.00	8.78

There are no significant differences in responses between LES and OPPD customer’s likelihood to pay \$2 more a month for wind energy ( $p = 0.467$ ). OPPD and LES customers are more likely than NPPD customers to pay \$2 more a month for wind energy ( $p = 0.004$ ,  $p = 0.040$ , respectively).

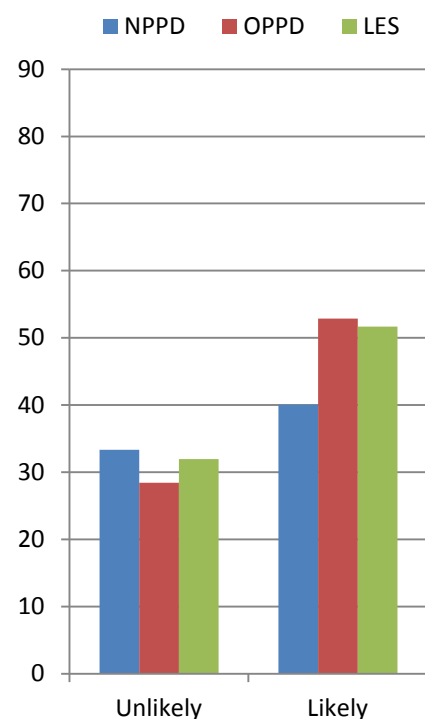
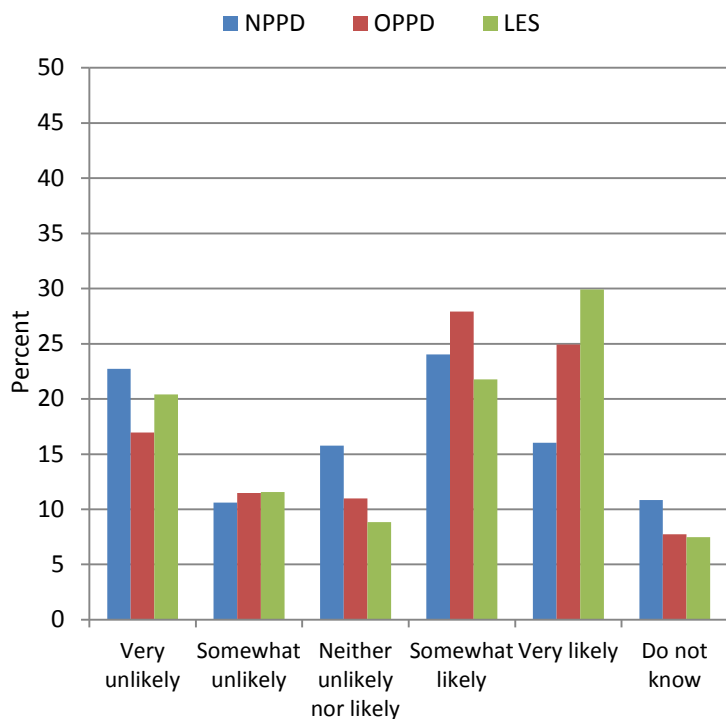


**7. If wind energy development was planned in a manner that reduces impacts on wildlife resources, how likely or unlikely would you be to pay \$2 more per month on your electricity bill to support wind energy development?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	22.74	16.96	20.41
Unlikely	10.59	11.47	11.56
Neither unlikely or likely	15.76	10.97	8.84
Somewhat likely	24.03	27.93	21.77
Very likely	16.02	24.94	29.93
Do not know	10.85	7.73	7.48
<i>Categories Combined</i>			
Unlikely	33.33	28.43	31.97
Neither unlikely or likely	15.76	10.97	8.84
Likely	40.05	52.87	51.7
Do not know	10.85	7.73	7.48

There are no significant differences in responses between LES and OPPD customer’s likelihood to pay \$2 more a month for wind energy that is planned in a manner that reduces impacts on wildlife ( $p = 0.942$ ). OPPD and LES customers are more likely than NPPD customers to pay \$2 more a month for wind energy that is planned in a manner that reduces impacts on wildlife ( $p \leq 0.001$ ,  $p = 0.018$ , respectively).

**If wind energy development was planned in a manner that reduces impacts on wildlife resources, how likely or unlikely would you be to pay \$2 more per month on your electricity bill to support wind energy development?**

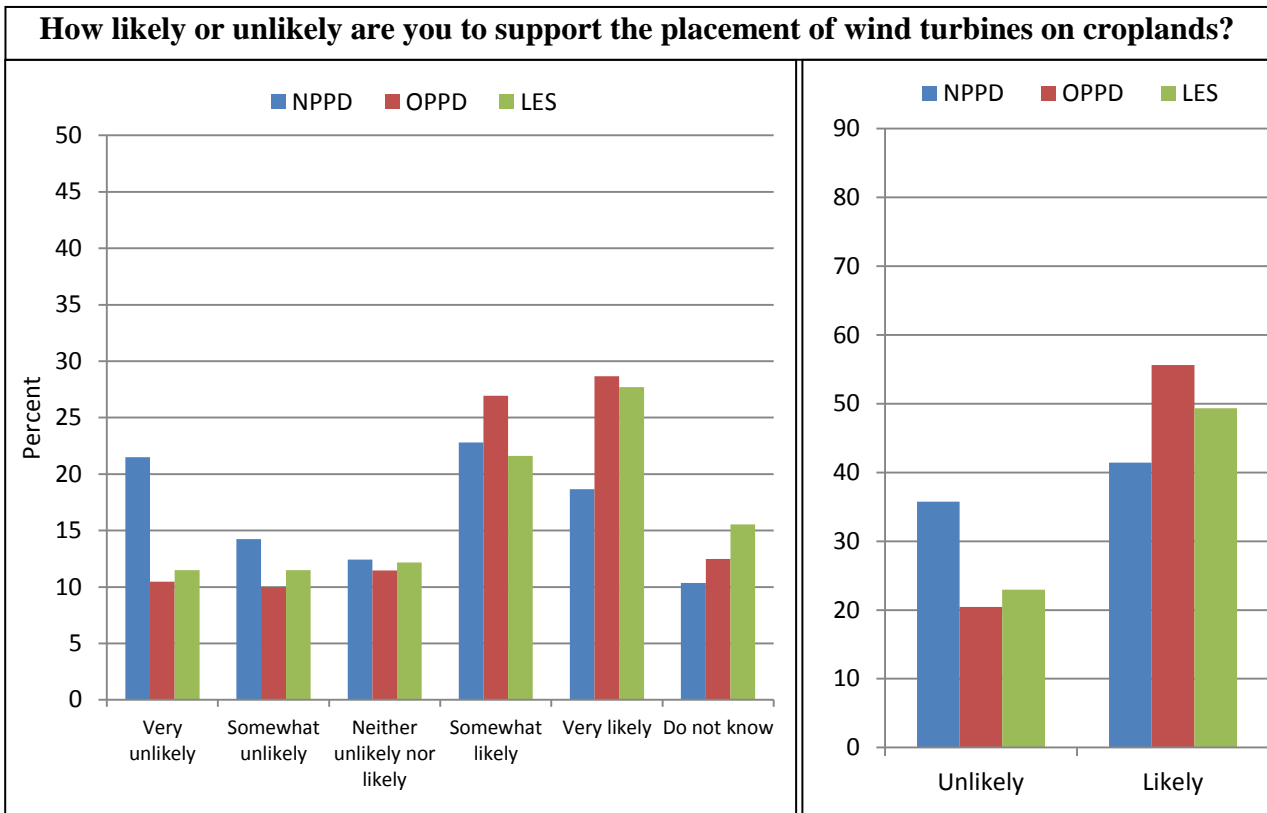




**8a. How likely or unlikely are you to support the placement of wind turbines on croplands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	21.50	10.47	11.49
Unlikely	14.25	9.98	11.49
Neither unlikely or likely	12.44	11.47	12.16
Somewhat likely	22.80	26.93	21.62
Very likely	18.65	28.68	27.70
Do not know	10.36	12.47	15.54
<i>Categories Combined</i>			
Unlikely	35.75	20.45	22.98
Neither unlikely or likely	12.44	11.47	12.16
Likely	41.45	55.61	49.32
Do not know	10.36	12.47	15.54

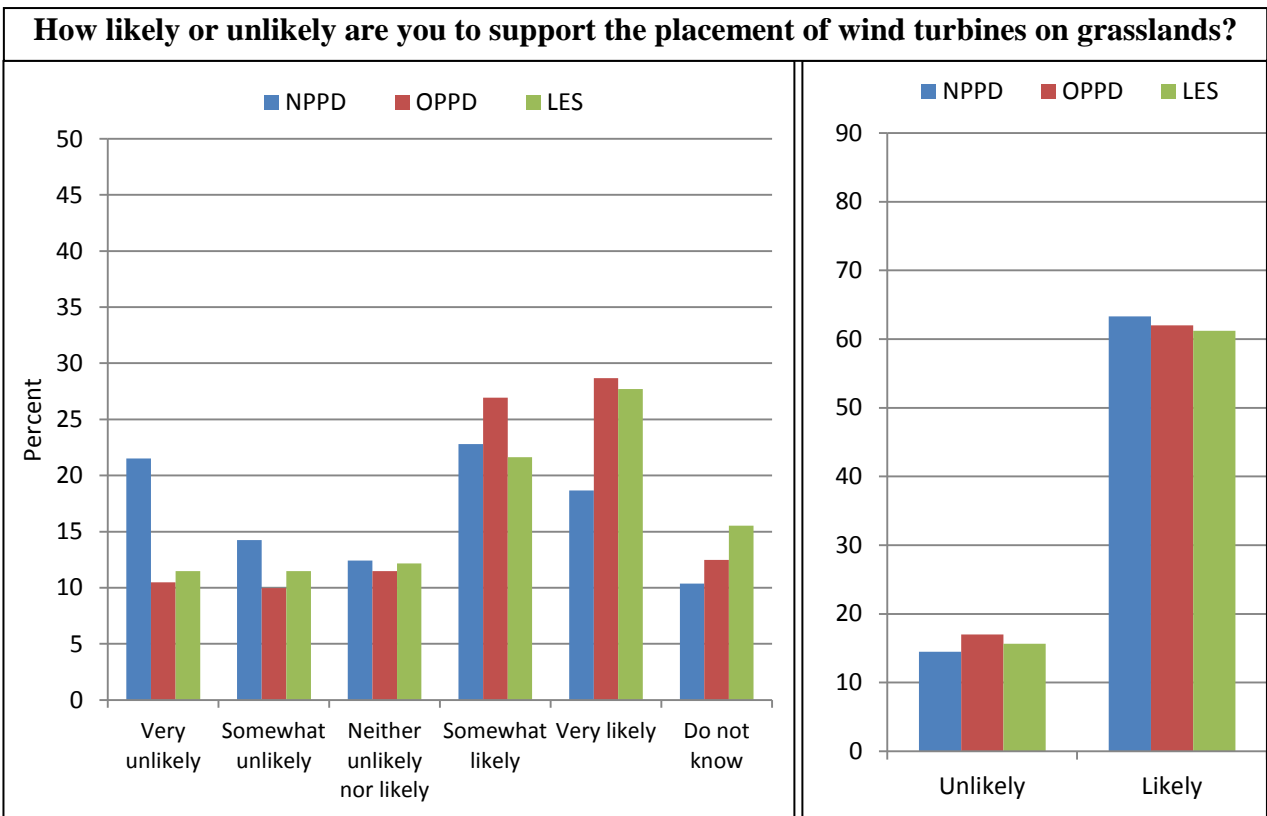
There are no significant differences in responses between LES and OPPD customer’s likelihood to support the placement of turbines on cropland ( $p = 0.542$ ). OPPD and LES customers are more likely than NPPD customers to support the placement of turbines on cropland ( $p \leq 0.001$ ,  $p = 0.002$ , respectively).



**8b. How likely or unlikely are you to support the placement of wind turbines on grasslands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	6.46	9.50	8.84
Unlikely	8.01	7.50	6.80
Neither unlikely or likely	12.66	10.00	8.16
Somewhat likely	32.04	29.50	26.53
Very likely	31.27	32.50	34.69
Do not know	9.56	11.00	14.97
<i>Categories Combined</i>			
Unlikely	14.47	17.00	15.64
Neither unlikely or likely	12.66	10.00	8.16
Likely	63.31	62.00	61.22
Do not know	9.56	11.00	14.97

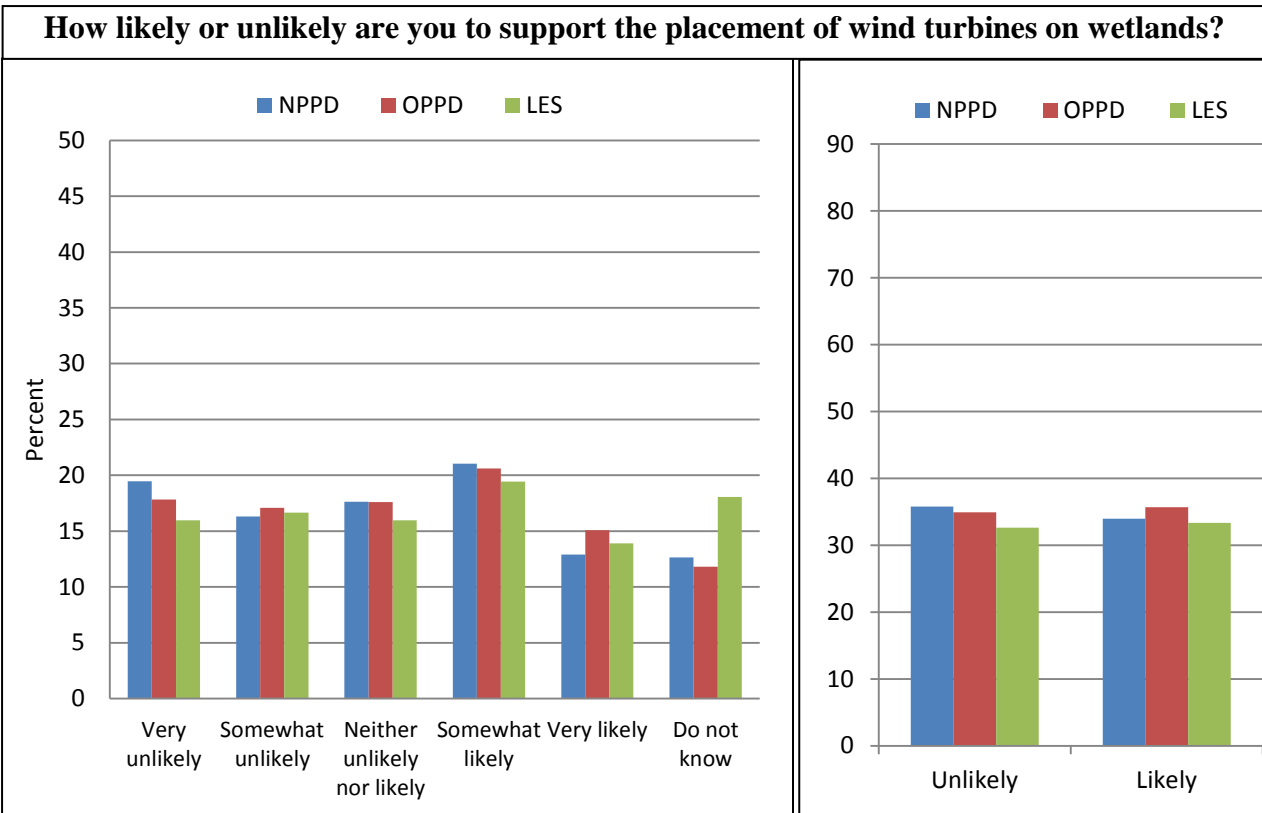
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood support the placement of turbines on grasslands ( $p = 0.730$ ).



**8c. How likely or unlikely are you to support the placement of wind turbines on wetlands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	19.47	17.84	15.97
Unlikely	16.32	17.09	16.67
Neither unlikely or likely	17.63	17.59	15.97
Somewhat likely	21.05	20.6	19.44
Very likely	12.89	15.08	13.89
Do not know	12.63	11.81	18.06
<i>Categories Combined</i>			
Unlikely	35.79	34.93	32.64
Neither unlikely or likely	17.63	17.59	15.97
Likely	33.94	35.68	33.33
Do not know	12.63	11.81	18.06

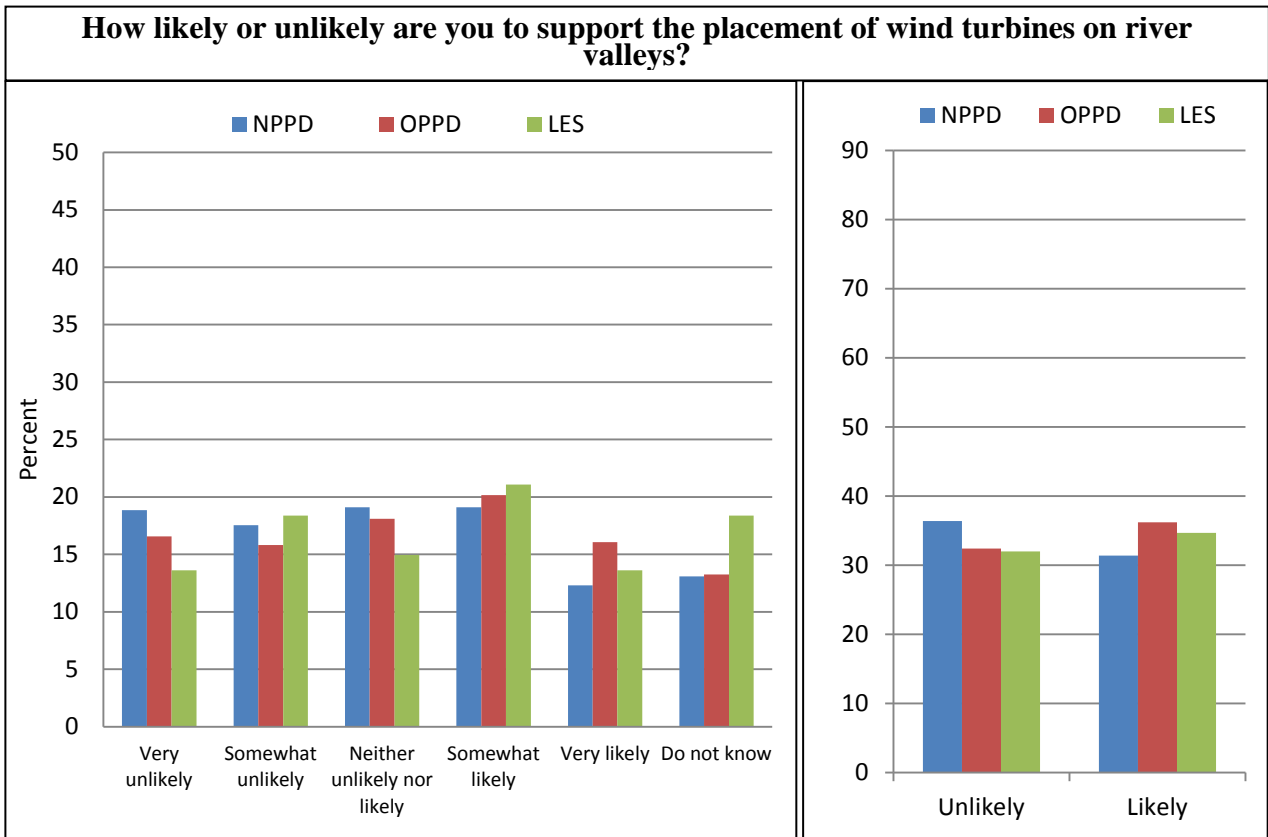
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood support the placement of turbines on wetlands (p = 0.753).



**8d. How likely or unlikely are you to support the placement of wind turbines on river valleys?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	18.85	16.58	13.61
Unlikely	17.54	15.82	18.37
Neither unlikely or likely	19.11	18.11	14.97
Somewhat likely	19.11	20.15	21.09
Very likely	12.30	16.07	13.61
Do not know	13.09	13.27	18.37
<i>Categories Combined</i>			
Unlikely	36.39	32.40	31.98
Neither unlikely or likely	19.11	18.11	14.97
Likely	31.41	36.22	34.70
Do not know	13.09	13.27	18.37

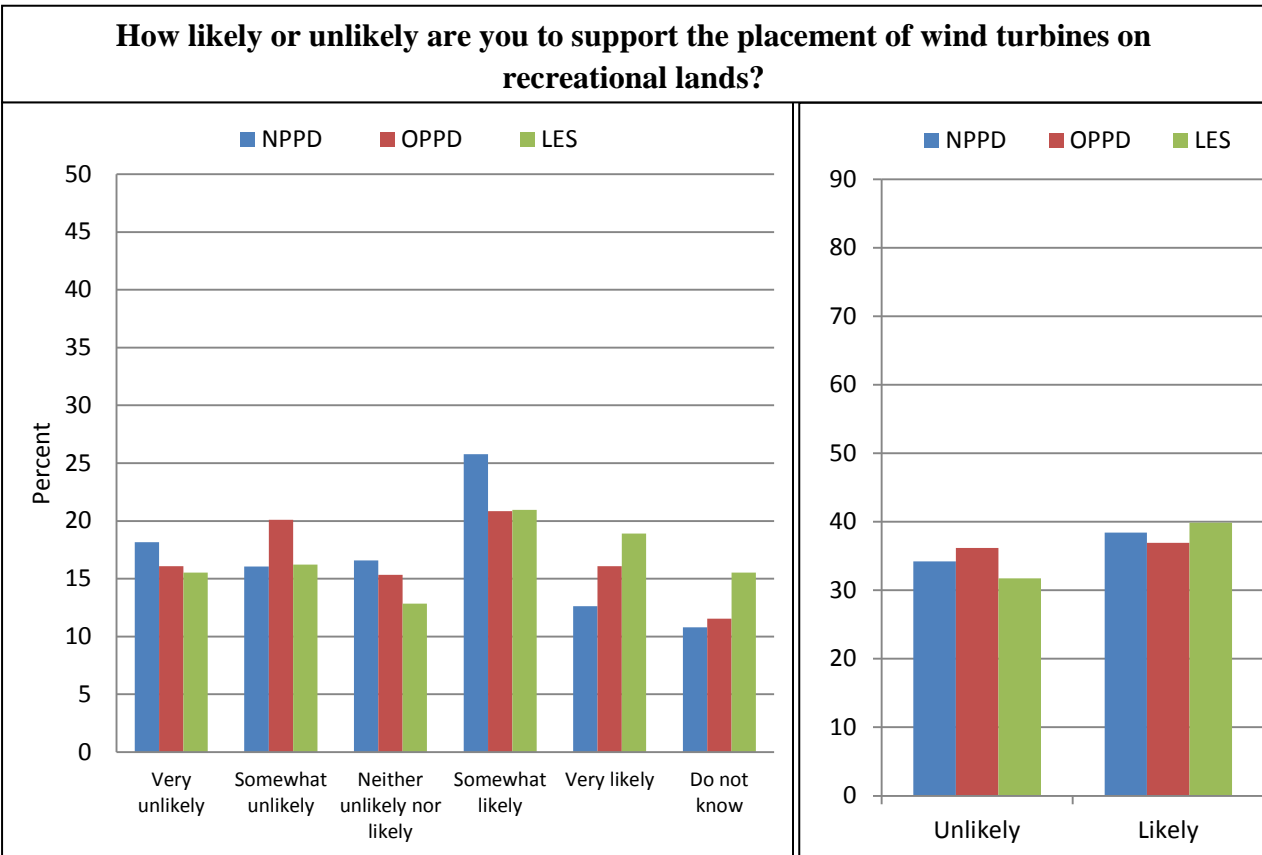
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood support the placement of turbines on river valleys ( $p = 0.140$ ).



**8e. How likely or unlikely are you to support the placement of wind turbines on recreational lands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	18.16	16.08	15.54
Unlikely	16.05	20.1	16.22
Neither unlikely or likely	16.58	15.33	12.84
Somewhat likely	25.79	20.85	20.95
Very likely	12.63	16.08	18.92
Do not know	10.79	11.56	15.54
<i>Categories Combined</i>			
Unlikely	34.21	36.18	31.76
Neither unlikely or likely	16.58	15.33	12.84
Likely	38.42	36.93	39.87
Do not know	10.79	11.56	15.54

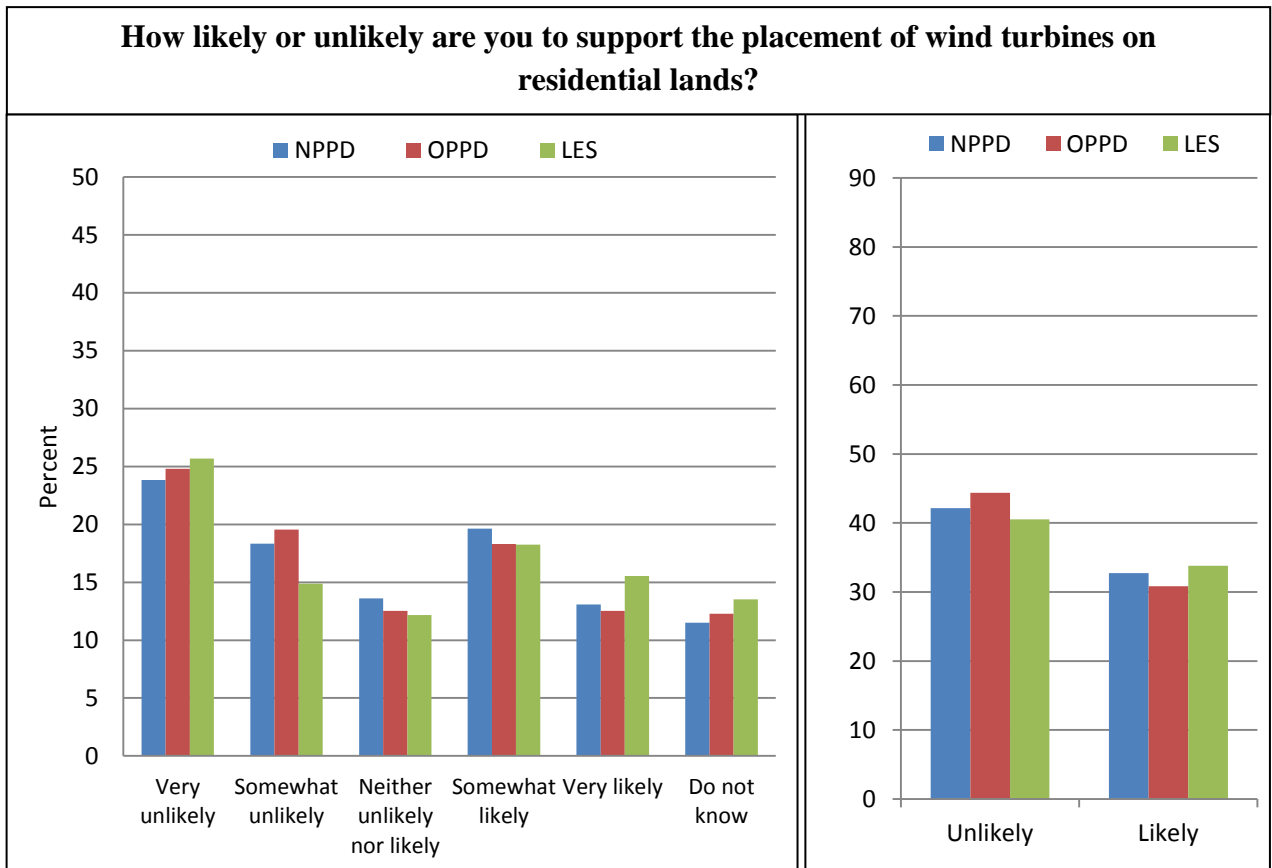
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood support the placement of turbines on recreational lands (p = 0.212).



**8f. How likely or unlikely are you to support the placement of wind turbines on residential lands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	23.82	24.81	25.68
Unlikely	18.32	19.55	14.86
Neither unlikely or likely	13.61	12.53	12.16
Somewhat likely	19.63	18.3	18.24
Very likely	13.09	12.53	15.54
Do not know	11.52	12.28	13.51
<i>Categories Combined</i>			
Unlikely	42.14	44.36	40.54
Neither unlikely or likely	13.61	12.53	12.16
Likely	32.72	30.83	33.78
Do not know	11.52	12.28	13.51

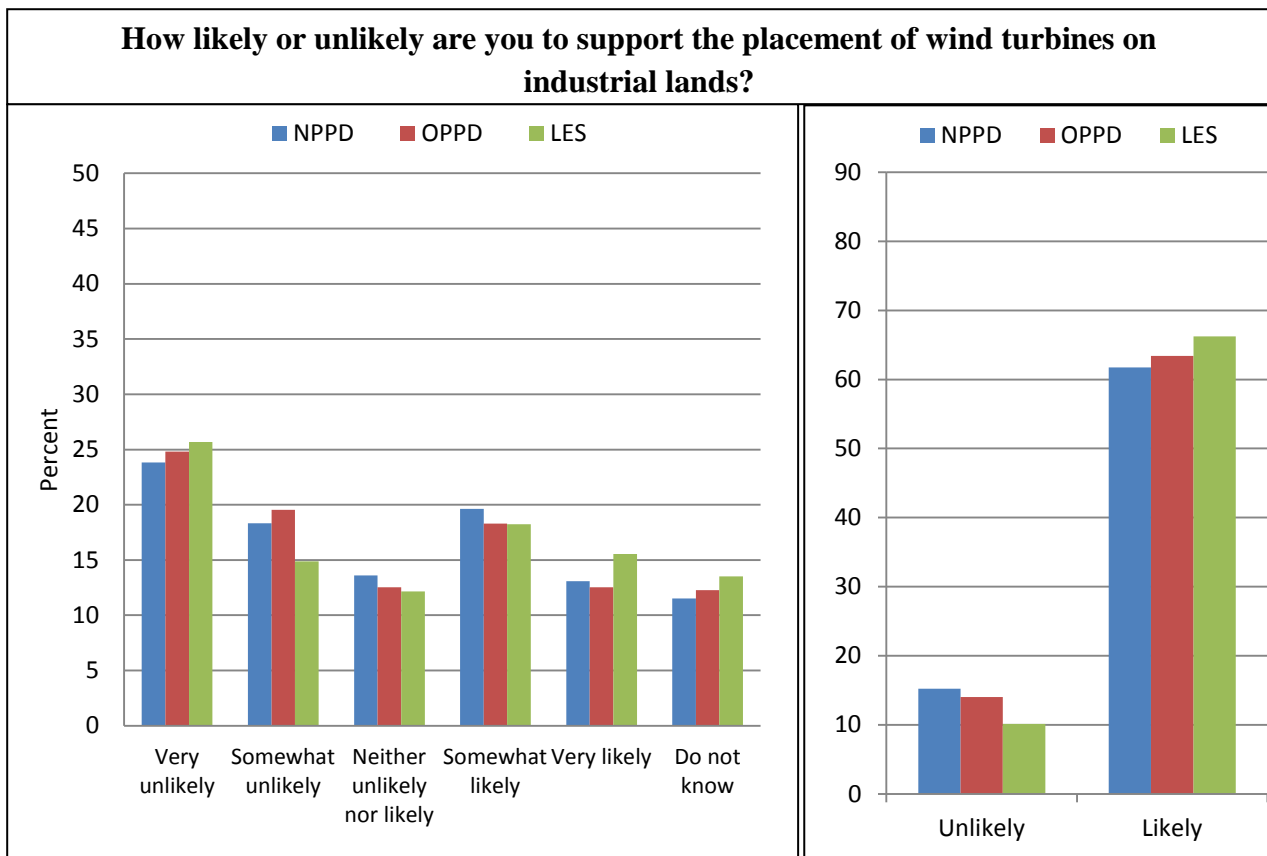
There are no significant differences in responses between NPPD, OPPD, and LES customer’s likelihood support the placement of turbines on residential lands ( $p = 0.782$ ).



**8g. How likely or unlikely are you to support the placement of wind turbines on industrial lands?**

	Percent (%)		
	NPPD	OPPD	LES
Very unlikely	6.98	6.02	5.41
Unlikely	8.27	8.02	4.73
Neither unlikely or likely	12.40	11.03	10.14
Somewhat likely	31.52	26.32	25.00
Very likely	30.23	37.09	41.22
Do not know	10.59	11.53	13.51
<i>Categories Combined</i>			
Unlikely	15.25	14.04	10.14
Neither unlikely or likely	12.40	11.03	10.14
Likely	61.75	63.41	66.22
Do not know	10.59	11.53	13.51

There are no significant differences in responses between LES and OPPD and NPPD and OPPD customer’s likelihood to support the placement of turbines on industrial lands ( $p = 0.163$ ,  $p = 0.091$ , respectively). LES customers are more likely than NPPD customers to support the placement of turbines on industrial lands ( $p = 0.008$ ).

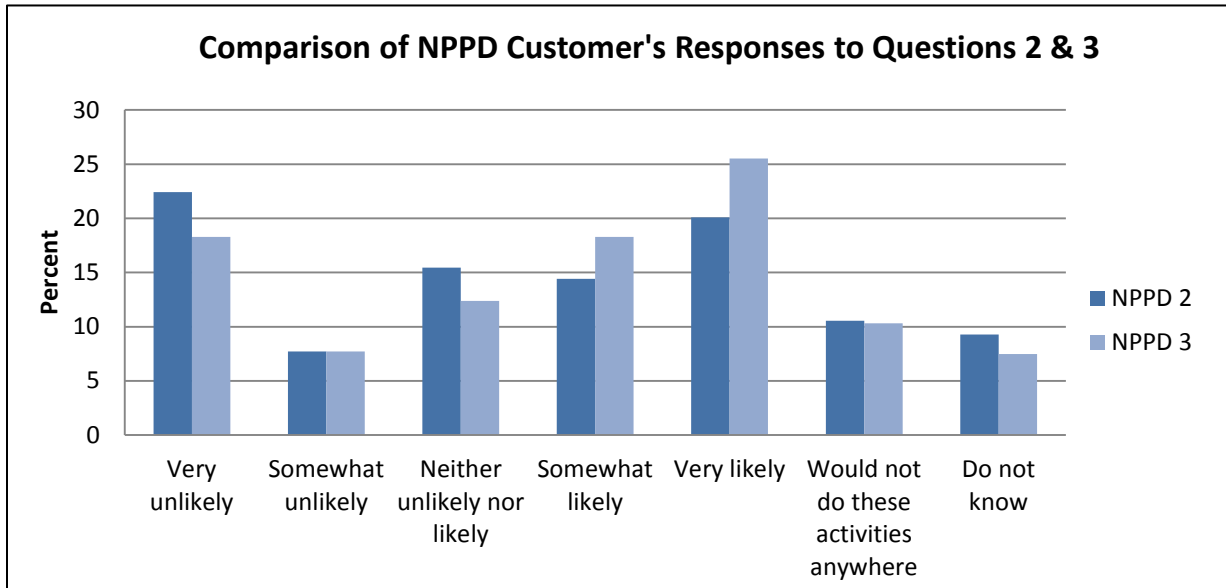


## Comparison of Likelihood to Recreate at Different Distances from Turbines

Question 2 asked how likely or unlikely someone was to recreate within one mile of a wind turbine; question 3 asked about recreating within sight of a wind turbine.

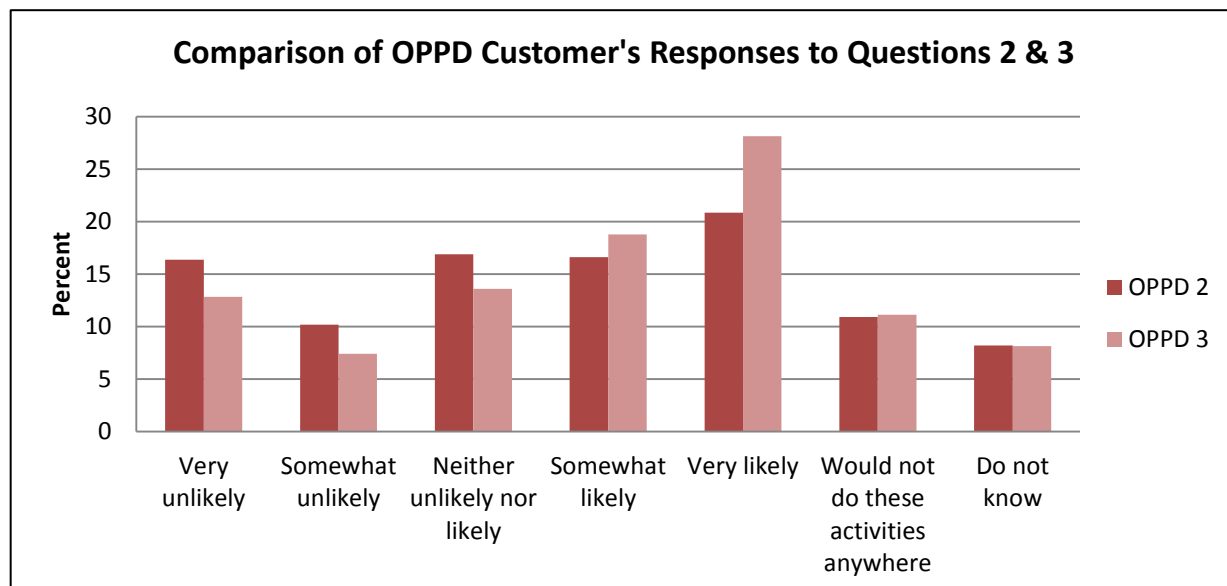
### NPPD

NPPD customers are more likely to recreate within sight of a turbine than within one mile of a turbine ( $p = 0.022$ ).



### OPPD

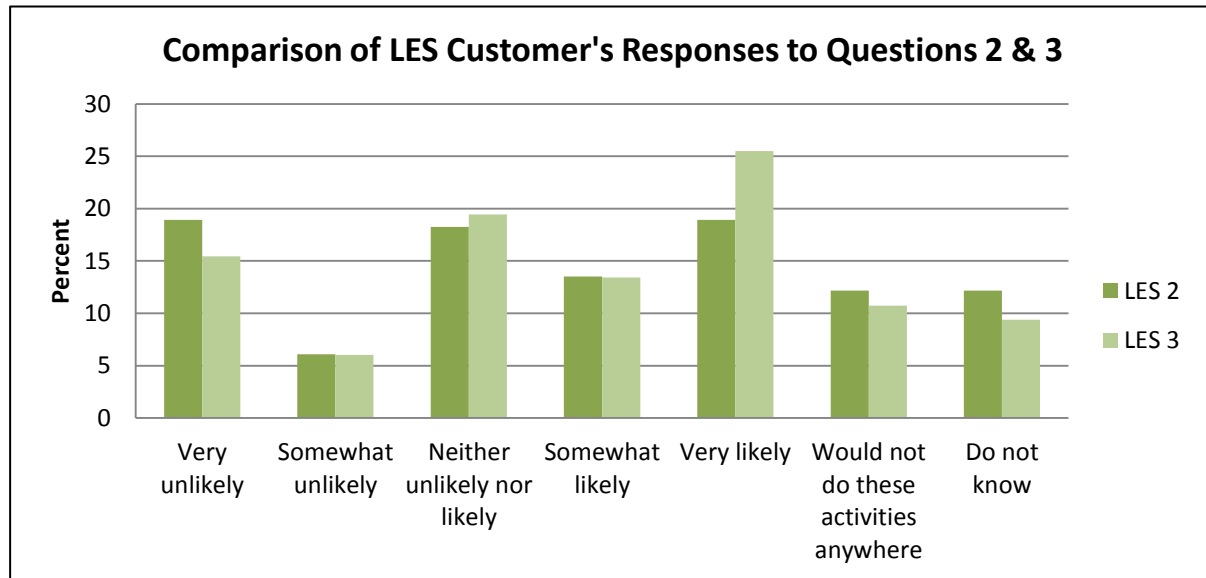
OPPD customers are more likely to recreate within sight of a turbine than within one mile of a turbine ( $p = 0.003$ ).





## LES

LES customers are just as likely to recreate within 1 mile and within sight of a wind turbine ( $p = 0.210$ ).

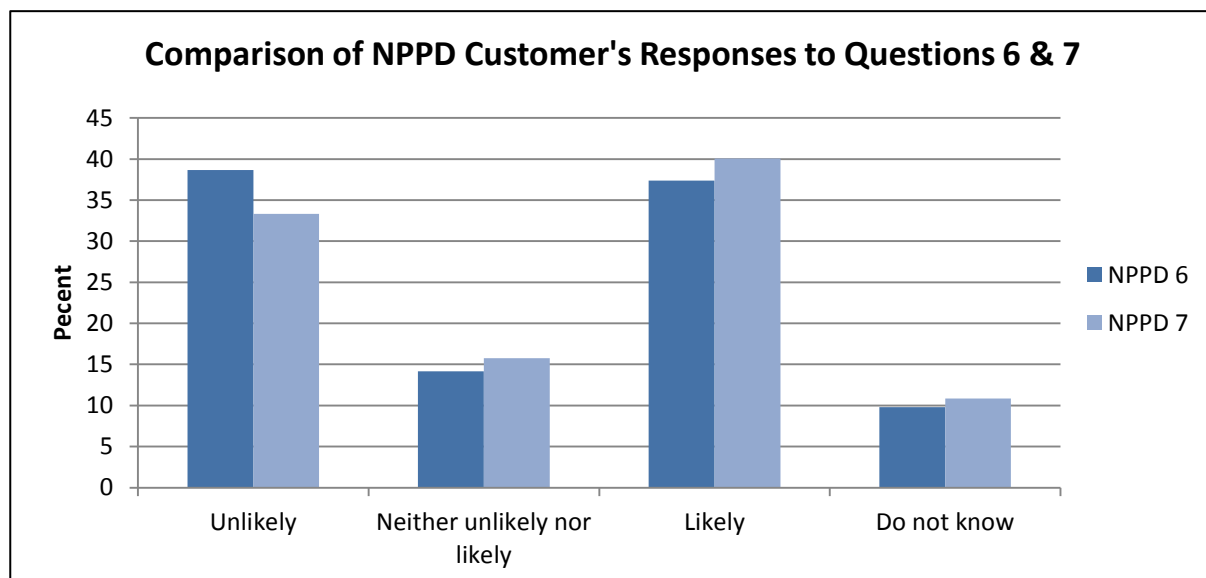


## Comparison of Likelihood to Pay \$2 More for Wind Energy Developments

Question 6 asked how likely or unlikely someone was to pay \$2 a month on their electricity bill to pay for wind energy. Whereas, question 7 asked how likely or unlikely someone was to pay \$2 more a month if wind energy development was planned in a manner that takes precautions to reduce impacts to wildlife.

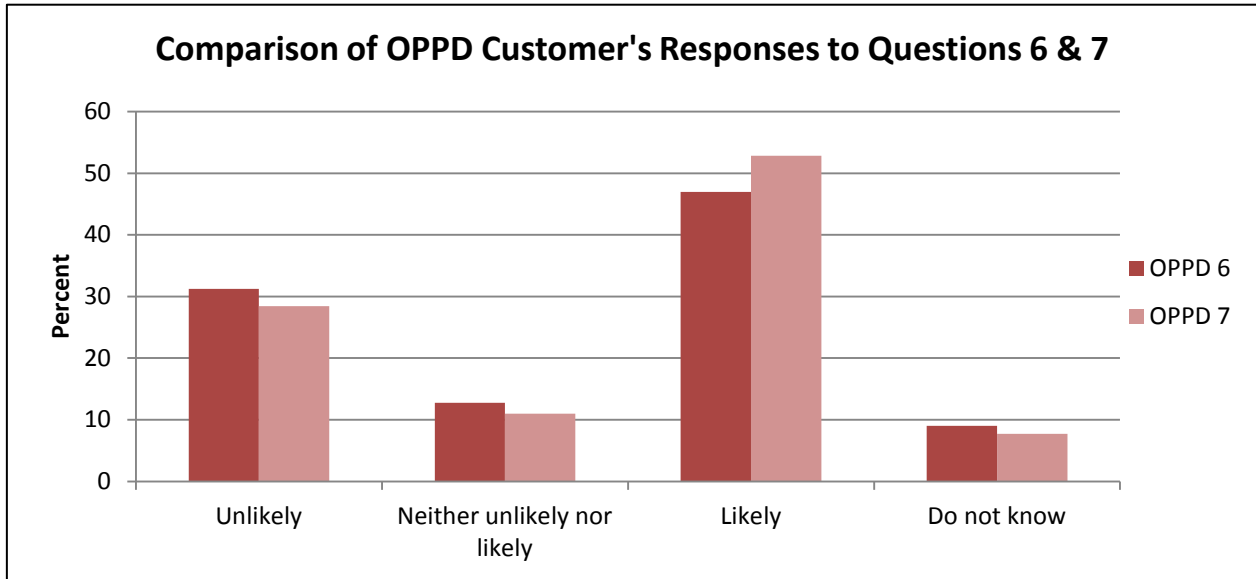
## NPPD

There is no significant difference in NPPD customer's responses to questions 6 and 7 ( $p = 0.241$ ).



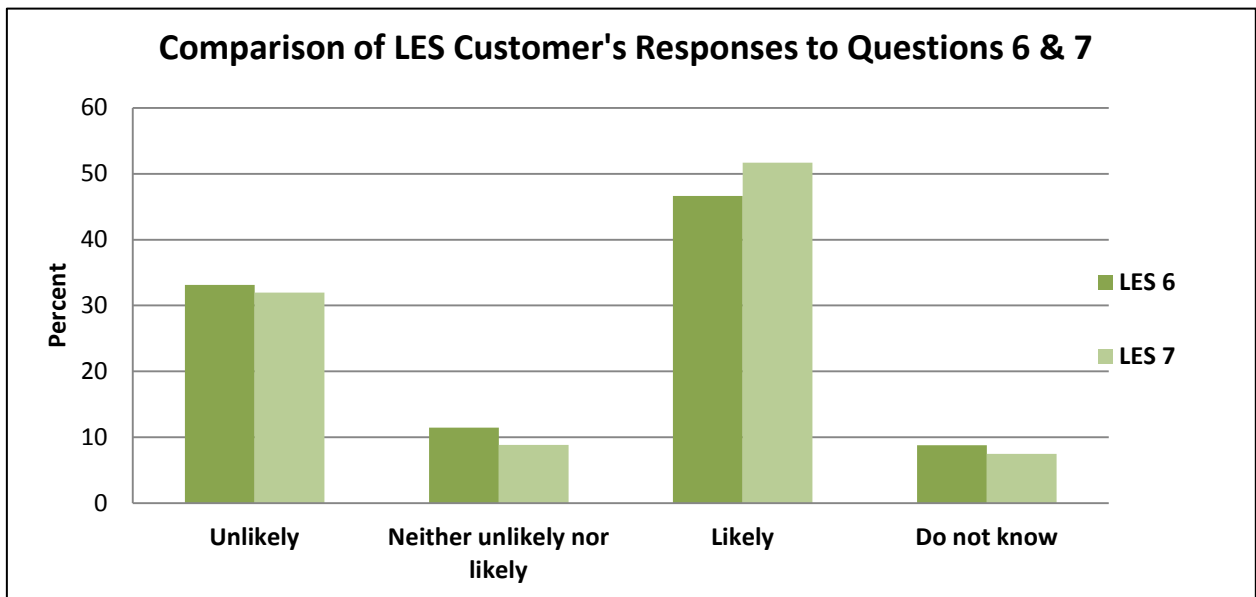
### OPPD

OPPD customers are more likely to pay \$2 more a month on their electric bill to support wind energy that is developed in a manner that takes precautions to reduce impacts to wildlife ( $p = 0.034$ ).



### LES

There is no significant difference in LES customer's responses to questions 6 and 7 ( $p = 0.274$ ).



## Correlation between Support for Wind Energy and Likelihood to Pay \$2 More

Pearson Correlation was used to analyze whether or not there is correlation between how PPD customers responded to questions 1 and 6.

	p- value	Pearson's <i>r</i>
NPPD	$p \leq 0.001$	0.815
OPPD	$p \leq 0.001$	0.801
LES	$p \leq 0.001$	0.826

Results indicate there is a strong correlation between all PPD customers who support wind energy development and their likelihood to pay \$2 more a month on their electric bill to support wind energy development.

## Correlation between Agreeing Development Should Take Precautions and Likelihood to Pay \$2 More for Developments that Have Been Planned to Reduce Wildlife Impacts

Pearson Correlation was used to analysis whether or not there is a correlation between how PPD customers responded to questions 5 and 7.

	p- value	Pearson's <i>r</i>
NPPD	$p \leq 0.001$	0.898
OPPD	$p \leq 0.001$	0.906
LES	$p \leq 0.001$	0.848

Results indicate there is a strong correlation between all PPD customers who agree that wind energy development and operations should have to take steps to minimize impacts to wildlife and their likelihood to pay \$2 more a month on their electric bill to support wind energy that has been developed in a manner that reduces the impacts to wildlife.

## Summary

There are several similarities and differences in the responses of PPD customers to wind and wildlife questions. The majority of Nebraskans, regardless of which PPD service area they are in, support the development of wind energy in Nebraska. Although there are no significant differences among PPD customer's likelihood to recreate within one mile or within sight of a wind turbine, both NPPD and OPPD customers are more likely to recreate within sight of a wind turbine than within one mile of a wind turbine. OPPD and LES customers are more concerned

than NPPD customers that birds and bats can be killed as a result of wind energy developments. The majority of OPPD (65.41%) and LES (66.89%) customers agree that the development and operation of wind energy facilities should take precautions to reduce impacts to wildlife; whereas 48.20% of NPPD customers agree precautions should be taken compared to 18.81% that disagree precautions should be taken. OPPD and LES customers are more likely than unlikely to pay \$2 more a month on their electricity bill to support wind energy development; NPPD customers are almost equally as likely and unlikely to pay to support wind energy development. OPPD customers are more likely to pay \$2 more a month on their electricity bill to support wind energy that is developed in a manner that takes precautions to reduce impacts to wildlife than to support any wind energy development. There were strong correlations for all PPD for residents who support wind energy development and are likely to pay \$2 more a month on their electric bill to support wind energy development. Similarly, there are strong correlations between all PPD customers who agree that wind energy development and operations should have to take steps to minimize impacts to wildlife and who are more likely to pay \$2 more a month on their electric bill to support wind energy that has been developed in a manner that reduces the impacts to wildlife. There are no differences between PPDs for support of placement of turbines on grasslands, wetlands, river valleys, recreational lands, or residential lands. OPPD and LES customers are more likely to support the placement of turbines on croplands than NPPD customers. LES customers are more likely to support the placement of turbines on industrial lands than NPPD customers.

## Appendix A

Public Power District (PPD), number of survey responses (frequency), and percentage of responses from each county in Nebraska for this analysis.

PPD	County Name	Frequency	Percentage
NPPD	Adams	25	2.64
NPPD	Antelope	1	0.10
NPPD	Boone	3	0.31
NPPD	Box Butte	5	0.52
NPPD	Boyd	1	0.10
NPPD	Brown	4	0.42
NPPD	Buffalo	18	1.88
NPPD	Butler	10	1.04
NPPD	Cedar	8	0.83
NPPD	Cherry	2	0.21
NPPD	Cheyenne	2	0.21
NPPD	Clay	5	0.52
NPPD	Cuming	8	0.83
NPPD	Custer	5	0.52
NPPD	Dakota	2	0.21
NPPD	Dawes	4	0.42
NPPD	Dawson	10	1.04
NPPD	Deuel	1	0.10
NPPD	Dixon	3	0.31
NPPD	Fillmore	3	0.31
NPPD	Franklin	2	0.21
NPPD	Furnas	5	0.52
NPPD	Gage	19	1.98
NPPD	Garden	1	0.10
NPPD	Garfield	1	0.10
NPPD	Gosper	2	0.21
NPPD	Greely	1	0.10
NPPD	Hall	31	3.23
NPPD	Hamilton	11	1.15
NPPD	Harlan	2	0.21
NPPD	Hitchcock	1	0.10
NPPD	Holt	4	0.42
NPPD	Howard	5	0.52
NPPD	Jefferson	6	0.63
NPPD	Kearney	6	0.63
NPPD	Keith	9	0.94
NPPD	Knox	7	0.73

NPPD	Lincoln	18	1.88
NPPD	Logan	2	0.21
NPPD	Loup	1	0.10
NPPD	Madison	17	1.77
NPPD	Merrick	7	0.73
NPPD	Nance	4	0.42
NPPD	Nuckolls	3	0.31
NPPD	Perkins	2	0.21
NPPD	Phelps	4	0.42
NPPD	Pierce	9	0.94
NPPD	Platte	15	1.56
NPPD	Polk	4	0.42
NPPD	Red Willow	8	0.83
NPPD	Rock	1	0.10
NPPD	Saline	9	0.94
NPPD	Scotts Bluff	13	1.35
NPPD	Seward	5	0.52
NPPD	Sheridan	3	0.31
NPPD	Sherman	2	0.21
NPPD	Sioux	1	0.10
NPPD	Stanton	3	0.31
NPPD	Thayer	6	0.63
NPPD	Thurston	3	0.31
NPPD	Valley	1	0.10
NPPD	Wayne	5	0.52
NPPD	Webster	4	0.42
NPPD	York	10	1.04
OPPD	Burt	4	0.42
OPPD	Cass	17	1.77
OPPD	Colfax	4	0.42
OPPD	Dodge	23	2.40
OPPD	Douglas	241	25.10
OPPD	Johnson	3	0.31
OPPD	Nemaha	1	0.10
OPPD	Otoe	7	0.73
OPPD	Pawnee	4	0.42
OPPD	Richardson	7	0.73
OPPD	Sarpy	71	7.40
OPPD	Saunders	9	0.94
OPPD	Washington	13	1.35
LES	Lancaster	150	15.63

## Appendices B-D

2012 Wind Energy & Wildlife Survey Results for each PPD.

A two-page handout with results for each Public Power District can be found on the following pages. For a pdf for a specific PPD go to:

<http://snr.unl.edu/renewableenergy/wind/research.asp#surveys>