

**Appendix C, 2010 Survey of Columbia River Regional Water Managers.**

**The 2010 Survey of Columbia River Basin Water Managers**  
(Office of Columbia River, Washington State Department of Ecology; v1.11)

**Water Demand Forecasts**

Q1. Does your jurisdictional area currently have enough water to meet its existing demands? *(Please check only one box.)*

- 1 Yes
- 2 No
- 3 Not sure

Q2. Within the last five years, have you ever developed any forecasts of future water demand for your jurisdiction? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q10**
- 3 Not sure ! **SKIP TO Q10**

Q3. In number of years, how far, on average, do your water demand forecasts extend out? (For example, do they go out 10 years, 15 years, 20 years?) What length best describes your forecasts? *(Please designate either a number or a range.)*

\_\_\_\_\_ Years

Q4. Based upon these forecasts, do you think your jurisdictional area will have enough water to meet its demands for the number of years you specified in Q3? *(Please check only one box.)*

- 1 Yes
- 2 No
- 3 Not sure

Q5. Does your forecasting model incorporate factors related to climate change? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q7**
- 3 Not sure ! **SKIP TO Q7**

Q6. Can you provide a brief description of the climate change model you used in your forecast? *(Please answer in your own words below.)*

Q7. Thinking about your overall forecasts, can you summarize in a few sentences what **assumptions** you made in developing them (including the assumptions relating to any climate change model)? *(Please answer in your own words below.)*

Q8. Is written documentation available describing these assumptions? *(Please check only one box.)*

- 1 Yes
- 2 Yes, some of the assumptions
- 3 No ! **SKIP TO Q12**
- 4 Not sure ! **SKIP TO Q12**

Q9. What would be the best way for the Washington State Department of Ecology to obtain this documentation?

*(Please answer in your own words below.)*

**IF YOUR ANSWER TO Q2="YES" THEN SKIP TO Q12.**

Q10. Based upon your experience, do you think that future water demands for your state, province, or tribal area will increase, stay about the same, or decrease? *(Please check only one box.)*

- 1 Increase
- 2 Stay about the same ! **SKIP TO Q12**
- 3 Decrease ! **SKIP TO Q12**
- 4 Not sure ! **SKIP TO Q12**

Q11. Please describe in a few sentences the evidence that leads you to say "increase"? *(Please answer in your own words below.)*

### **Water Projects**

Q12. In your jurisdiction, are there any major conservation or storage water projects planned that are intended to meet future water demands? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q14**
- 3 Not sure ! **SKIP TO Q14**

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Q13a-g. Thinking about each *major planned* water project in your jurisdiction intended to meet future water demand, please answer the questions in the following two tables.

Q13a. Please describe in a sentence or two each *major planned* water project in your jurisdiction intended to meet future water demand? And these could be either conservation or storage projects.

Q13b. Has the project started?

**Yes**                      **No**

Q13c. In what year do you expect this project to be completed?

**Not  
sure**

**Project a:**

**Project b:**

Projects  
Identified in  
Q13a above

Q13d. The estimated  
volume of water in  
acre-feet for this

Q13e. Do you have a cost estimate for  
the project?

Q13f. (If YES) Your cost estimate?

**Yes**                      **No**                      **Not sure**

Q13g. What is the  
source of water for  
this project?

a:

acre-feet

\$

b:

acre-feet

\$

Q14. Are there any future major water projects in your jurisdiction that you think will increase water demand? (*Please check only one box.*)

1 Yes

2 No ! **SKIP TO Q16**

3 Not sure ! **SKIP TO Q16**

Q15. Can you identify each of these future major water projects? (*Please answer in your own words below for each project.*)

Project a:

Project b:

Q16. Do you currently have any major storage projects in your jurisdictional area? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q18**
- 3 Not sure ! **SKIP TO Q18**

Q17. What would be the best way for the Washington State Department of Ecology to obtain documentation about current major storage projects in your jurisdictional area? *(Please answer in your own words below.)*

### **General Plans for Managing Jurisdictional Water Supplies**

Q18. Do you have any plans to change in any way your jurisdiction's current approach to managing its existing water supplies? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q20**
- 3 Not sure ! **SKIP TO Q20**

Q19. How will your management approach change? *(Please answer in your own words below.)*

Q20. Do you plan to increase your jurisdiction's water storage capacity? *(Please check only one box.)*

- 1 Yes
- 2 No ! **SKIP TO Q22**
- 3 Not sure ! **SKIP TO Q22**

Q21a. Approximately what percentage of this storage increase is intended for **municipalities**? *(Please indicate a percentage.)*

\_\_\_\_\_ %

Q21b. Have you done an economic analysis measuring the impact on **municipalities**? *(Please check only one box.)*

- 1 Yes
- 2 No
- 3 Not sure

Q21c. Approximately what percentage of this storage increase is intended for **energy**? (*Please indicate a percentage.*)

\_\_\_\_\_ %

Q21d. Have you done an economic analysis measuring the impact on **energy**? (*Please check only one box.*)

- 1 Yes
- 2 No
- 3 Not sure

Q21e. Approximately what percentage of this storage increase is intended for **irrigation**? (*Please indicate a percentage.*)

\_\_\_\_\_ %

Q21f. Have you done an economic analysis measuring the impact on **irrigation**? (*Please check only one box.*)

- 1 Yes
- 2 No
- 3 Not sure

Q21g. Approximately what percentage of this storage increase is intended for **instream flows or fisheries**? (*Please indicate a percentage.*)

\_\_\_\_\_ %

Q21h. Have you done an economic analysis measuring the impact on **instream flows or fisheries**? (*Please check only one box.*)

- 1 Yes
- 2 No
- 3 Not sure

Q22. Do you currently have plans to expand agricultural acreage?

- 1 Yes
- 2 No ! **SKIP TO Q27**
- 3 Not sure ! **SKIP TO Q27**

Q23. What of the following types of crops do you expect to be grown on the additional acreage? (*Please check only one box for each.*)

**Yes    No    Not sure**

- a. Cereal or field crops, including wheat, barley, oats, beets, or beans
- b. Forage crops, like hay or pasture
- c. Fruits and orchards, like apples, cherries, pears, or grapes.
- d. Vegetables, like onions, asparagus, sweet corn, potatoes, peas, or pumpkins
- e. Seed crops

Q24. Have you estimated the additional acre-feet of water rights that would be issued? (*Please check only one box.*)

- 1 Yes
- 2 No ! **SKIP TO Q26**
- 3 Not sure ! **SKIP TO Q26**

Q25. Do you recall what that estimate is? (*Please indicate the number of acre-feet.*)  
\_\_\_\_\_ Acre-feet

Q26. Roughly what percentage of this expanded acreage is intended for irrigation? (*Please indicate a percentage.*)  
\_\_\_\_\_ %

Q27. Are there any issues, including tribal settlements and compacts, that could lead to changes in the legal or institutional structure of water rights permitting in your state, province, or tribal area? (*Please check only one box.*)

- 1 Yes
- 2 No ! **SKIP TO Q29**
- 3 Not sure ! **SKIP TO Q29**

Q28. In a few sentences, can you describe what these issues are? (*Please answer in your own words below.*)

Q29. Is there anything else you can think of that would be helpful for the department to know? (*If there is, please answer in your own words below.*)

