

Waterbird population estimates for a key staging site in Kazakhstan: a contribution to wetland conservation on the Central Asian flyway

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Appendix

Individual sites found to hold more than 1% of the relevant flyway population of a particular species or more than more than 20,000 waterbirds at least once in 1999-2004. Species are listed with maximum counts and number of years, in which the 1% criterion was reached. The number of years in which a particular site was visited is given in the upper right. Some lakes have the same names and some lakes are so large that they had to be divided into subregions. A *zapovednik* is a strict nature reserve.

<u>1. Ablyaskaya plotina (50.44 °N, 69.35 °E)</u>			<u>Zapovednik</u>
Common Pochard	42,100	2	5 years
White-headed Duck	870	3	
Total waterbirds	50,155	1	
<u>2. Delta Kulanotpes Northeast (50.29 °N, 69.25 °E)</u>			<u>Zapovednik</u>
Dalmatian Pelican	102	1	1 year
<u>3. Delta Kulanotpes Southeast (50.27 °N, 69.27 °E)</u>			<u>Zapovednik</u>
Eurasian Wigeon	13,000	1	1 year
Northern Pintail	7,000	1	
Common Pochard	15,000	1	
Total waterbirds	51,765	1	
<u>4. Delta Kulanotpes Southwest (50.25 °N, 69.20 °E)</u>			<u>Zapovednik</u>
Greater Flamingo	5,500	1	4 years
Ruddy Shelduck	2,440	1	
Gadwall	25,000	1	
Mallard	20,000	1	
Northern Shoveler	37,000	2	
Common Pochard	25,000	2	
White-headed Duck	440	1	
Total waterbirds	109,357	2	
<u>5. Delta Nura (50.51 °N, 69.20 °E)</u>			<u>Zapovednik</u>
Great Crested Grebe	2,100	1	6 years

Dalmatian Pelican	1,540	1	
Great Cormorant	3,120	1	
Great White Egret	1,010	1	
Greater Flamingo	9,790	1	
Whooper Swan	220	1	
Ruddy Shelduck	2,610	2	
Common Shelduck	2,530	1	
Eurasian Wigeon	28,000	1	
Gadwall	5,000	1	
Northern Pintail	12,300	1	
Red-crested Pochard	500	1	
Common Pochard	76,000	1	
Eurasian Coot	29,100	1	
Total waterbirds	171,088	1	
<u>6. Karachi bay (50.32 °N, 69.26 °E)</u>			<u>Zapovednik</u>
Red-crested Pochard	880	1	4 years
Common Pochard	40,000	1	
White-headed Duck	424	1	
Total waterbirds	40,107	2	
<u>7. Kerei Peninsula East (50.27 °N, 69.18 °E)</u>			<u>Zapovednik</u>
Dalmatian Pelican	120	1	3 years
Ruddy Shelduck	5,050	1	
Eurasian Wigeon	18,000	2	
Gadwall	9,000	2	
Common Pochard	50,000	1	
White-headed Duck	661	2	
Eurasian Coot	24,000	1	
Total waterbirds	52,158	3	
<u>8. Kerei Peninsula North (50.28 °N, 69.14 °E)</u>			<u>Zapovednik</u>
Dalmatian Pelican	120	1	5 years
Greater Flamingo	20,000	1	
Ruddy Shelduck	1,638	1	
Eurasian Wigeon	11,900	2	
Gadwall	25,500	1	
Common Pochard	22,000	3	
Common Goldeneye	15,000	1	
White-headed Duck	780	3	
Eurasian Coot	45,900	1	
Total waterbirds	75,317	3	
<u>9. Kerei Peninsula Southwest (50.21 °N, 69.14 °E)</u>			<u>Zapovednik</u>
Ruddy Shelduck	1,600	1	3 years
Northern Pintail	17,000	1	
Common Pochard	25,000	1	
White-headed Duck	536	1	
Total waterbirds	34,394	2	
<u>10. Kolshunskaya Plotina (50.41 °N, 69.38 °E)</u>			<u>Zapovednik</u>
Red-crested Pochard	1,800	2	4 years
<u>11. Lake Akkoshkoi (50.38 °N, 69.43 °E)</u>			<u>Zapovednik</u>
White-headed Duck	216	1	1 year
<u>12. Lake Aktobe (50.42 °N, 69.65 °E)</u>			<u>Zapovednik</u>
Red-crested Pochard	2,250	2	5 years
<u>13. Lake Alakol (49.80 °N, 70.49 °E)</u>			-

Whooper Swan	783	1	1 year
Common Pochard	31,000	1	
Total waterbirds	35,847	1	
<u>14. Lake Asaubalyk (50.41 °N, 69.25 °E)</u>			<u>Zapovednik</u>
Great Crested Grebe	600	1	3 years
<u>15. Lake Ashchykol (50.74 °N, 69.99 °E)</u>			<u>-</u>
Black-necked Grebe	444	2	6 years
Whooper Swan	379	2	
Red-crested Pochard	500	1	
White-headed Duck	121	2	
<u>16. Lake Ashchy-Kumkol (50.55 °N, 70.79 °E)</u>			<u>-</u>
Whooper Swan	355	1	1 year
<u>17. Lake Aukolbek (50.83 °N, 68.24 °E)</u>			<u>-</u>
Greylag Goose	3,000	1	1 year
<u>18. Lake Azhibeksor (50.15 °N, 68.40 °E)</u>			<u>-</u>
Common Shelduck	3,700	1	4 years
<u>19. Lake Baibota (50.72 °N, 69.87 °E)</u>			<u>-</u>
Mallard	11,000	1	4 years
Common Pochard	8,200	1	
White-headed Duck	254	1	
Total waterbirds	30,263	1	
<u>20. Lake Birtaban (east of the village) (50.50 °N, 70.02 °E)</u>			<u>-</u>
Dalmatian Pelican	104	1	3 years
<u>21. Lake Birtaban (southeast of Nura) (50.46 °N, 70.01 °E)</u>			<u>-</u>
Great Crested Grebe	500	1	4 years
Red-crested Pochard	521	1	
<u>22. Lake Bolshoi Karakol (50.44 °N, 69.50 °E)</u>			<u>Zapovednik</u>
Great Crested Grebe	500	1	3 years
Whooper Swan	267	1	
Red-crested Pochard	1,500	1	
<u>23. Lake Bolshoi Tengiz (air survey) (50.40 °N, 69.04 °E)</u>			<u>Zapovednik</u>
Great Cormorant	6,000	1	2 years
Greater Flamingo	6,000	1	
Whooper Swan	360	1	
<u>24. Lake Bolshoi Tengiz (NW, island) (50.44 °N, 68.79 °E)</u>			<u>Zapovednik</u>
Greater Flamingo	4,800	2	4 years
<u>25. Lake east of Lake Sholak (50.54 °N, 69.87 °E)</u>			<u>-</u>
Dalmatian Pelican	130	1	3 years
Great Cormorant	3,500	1	
Common Pochard	50,000	2	
Total waterbirds	58,744	1	
<u>26. Lake Isei (50.49 °N, 69.65 °E)</u>			<u>Zapovednik</u>
Red-necked Grebe	530	1	6 years
Great Crested Grebe	1,200	1	
Black-necked Grebe	490	2	
Dalmatian Pelican	650	3	
Whooper Swan	1,500	2	

Ruddy Shelduck	36,000	3	
Gadwall	10,000	1	
Red-crested Pochard	30,000	5	
Common Pochard	15,000	2	
Common Goldeneye	10,000	1	
Smew	1,500	2	
White-headed Duck	576	1	
Total waterbirds	114,500	3	
<u>27. Lake Iseiskaya Kosa (50.51 °N, 69.69 °E)</u>			<u>Zapovednik</u>
Dalmatian Pelican	93	1	6 years
Whooper Swan	2,500	2	
Ruddy Shelduck	15,000	1	
Gadwall	13,640	2	
Red-crested Pochard	3,500	4	
Common Pochard	18,600	3	
White-headed Duck	538	1	
Total waterbirds	47,204	2	
<u>28. Lake Karakol (50.91 °N, 69.10 °E)</u>			-
Whooper Swan	220	1	1 year
<u>29. Lake Kazatskoe (50.40 °N, 69.64 °E)</u>			<u>Zapovednik</u>
Red-crested Pochard	350	1	4 years
Common Pochard	10,000	1	
<u>30. Lake Kokai (50.46 °N, 69.41 °E)</u>			<u>Zapovednik</u>
Great Crested Grebe	1,600	5	6 years
Dalmatian Pelican	510	2	
Great Cormorant	4,440	2	
Mute Swan	4,556	1	
Greater White-fronted Goose	9,500	1	
Greylag Goose	5,500	1	
Red-crested Pochard	11,290	3	
Common Pochard	20,000	1	
Smew	300	1	
Total waterbirds	23,591	1	
<u>31. Lake Korgalzhyn East (50.42 °N, 69.56 °E)</u>			<u>Zapovednik</u>
Dalmatian Pelican	670	3	3 years
Red-crested Pochard	350	1	
<u>32. Lake Korgalzhyn West (50.46 °N, 69.47 °E)</u>			<u>Zapovednik</u>
White-headed Duck	270	1	5 years
<u>33. Lake Korzhynkol (51.10 °N, 68.92 °E)</u>			-
Greater White-fronted Goose	51,200	1	3 years
Northern Pintail	10,000	1	
Total waterbirds	70,226	1	
<u>34. Lake Kozhakol (50.93 °N, 69.15 °E)</u>			-
Greater White-fronted Goose	10,000	1	2 years
<u>35. Lake Kubikol (50.87 °N, 68.71 °E)</u>			-
Whooper Swan	356	2	3 years
Greater White-fronted Goose	255,000	2	
Greylag Goose	30,000	3	
Red-breasted Goose	475	1	
Ruddy Shelduck	3,670	2	
Mallard	25,000	1	

Northern Pintail	15,000	1	
Demoiselle Crane	1,700	1	
Eurasian Coot	60,000	1	
Total waterbirds	337,914	3	
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36. Lake Kumdykol (50.54 °N, 70.73 °E)			-
Great Crested Grebe	350	1	3 years
Black-necked Grebe	300	2	
Whooper Swan	502	2	
Greater White-fronted Goose	30,000	2	
Greylag Goose	15,200	2	
Ruddy Shelduck	1,800	2	
White-headed Duck	473	2	
Total waterbirds	35,311	2	
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37. Lake Kumkol (50.76 °N, 70.07 °E)			-
Black-necked Grebe	950	2	6 years
Whooper Swan	402	2	
Northern Shoveler	35,000	1	
Tufted Duck	9,010	1	
White-headed Duck	1,705	5	
Eurasian Coot	30,000	1	
Total waterbirds	40,371	2	
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38. Lake Kyzylkol (50.33 °N, 69.69 °E)			-
Great Crested Grebe	720	1	6 years
Red-crested Pochard	1,800	2	
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39. Lake Maliy Tengiz (E bay) (50.66 °N, 69.56 °E)			Zapovednik
Common Shelduck	3,230	2	3 years
Gadwall	6,800	1	
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40. Lake Maliy Tengiz (NE bay) (50.66 °N, 69.60 °E)			Zapovednik
Common Shelduck	31,400	3	6 years
Total waterbirds	33,500	1	
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41. Lake Maliy Tengiz (northern shore) (50.69 °N, 69.53 °E)			Zapovednik
Greater Flamingo	11,300	1	5 years
Common Shelduck	10,080	2	
Common Crane	3,500	1	
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42. Lake Maliy Tengiz (SE bay) (50.60 °N, 69.45 °E)			Zapovednik
Black-necked Grebe	630	2	6 years
Common Shelduck	39,120	3	
Eurasian Wigeon	6,500	1	
Gadwall	27,100	1	
Red-crested Pochard	350	1	
Total waterbirds	48,778	1	
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43. Lake Maliy Tengiz (SW bay) (50.61 °N, 69.52 °E)			Zapovednik
Black-necked Grebe	750	1	6 years
Common Shelduck	9,400	5	
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44. Lake near Mambetkolzha (50.53 °N, 69.95 °E)			-
Great Cormorant	8,000	1	1 year
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45. Lake Nygis (50.52 °N, 70.68 °E)			-
Ruddy Shelduck	4,900	1	2 years
White-headed Duck	472	1	

<u>46. Lake Samarbai (51.02 °N, 70.00 °E)</u>				-
Greater White-fronted Goose	6,000	1		1 year
<u>47. Lake Saumalkol (50.67 °N, 69.72 °E)</u>				-
Black-necked Grebe	400	1		6 years
Ruddy Shelduck	1,450	1		
Gadwall	5,000	1		
Red-crested Pochard	400	1		
Common Pochard	38,000	2		
White-headed Duck	610	4		
Eurasian Coot	50,000	1		
Total waterbirds	106,533	1		
<u>48. Lake Shalkar (50.44 °N, 69.94 °E)</u>				-
Great Crested Grebe	4,560	2		6 years
Great Cormorant	3,500	2		
Red-crested Pochard	1,000	1		
Smew	1,700	1		
White-headed Duck	469	1		
<u>49. Lake Shandykol (51.08 °N, 69.67 °E)</u>				-
Northern Pintail	7,000	1		1 year
<u>50. Lake Shiyshalkar (50.68 °N, 70.46 °E)</u>				-
Dalmatian Pelican	146	2		6 years
Greater White-fronted Goose	12,000	1		
Demoiselle Crane	2,100	1		
<u>51. Lake Sholak (north of Nura) (50.55 °N, 69.81 °E)</u>				-
Great Crested Grebe	1,770	2		6 years
Dalmatian Pelican	199	3		
Great Cormorant	4,000	1		
Greater White-fronted Goose	6,500	1		
Greylag Goose	12,700	2		
Ruddy Shelduck	10,000	2		
Red-crested Pochard	4,000	3		
Common Pochard	100,000	1		
Tufted Duck	15,000	1		
Smew	3,000	3		
White-headed Duck	308	1		
Demoiselle Crane	2,260	1		
Eurasian Coot	40,000	1		
Total waterbirds	129,739	2		
<u>52. Lake Sholak (south of Nura) (50.50 °N, 69.91 °E)</u>				-
Red-crested Pochard	510	1		4 years
White-headed Duck	150	1		
Demoiselle Crane	1,100	1		
<u>53. Lake Shunkyrkol (51.06 °N, 68.90 °E)</u>				-
Greater White-fronted Goose	20,000	1		1 year
Total waterbirds	20,398	1		
<u>54. Lake Sukhos (50.42 °N, 69.69 °E)</u>				Zapovednik
Red-crested Pochard	480	1		1 year
<u>55. Lake Sultankeldy (50.5 °N, 69.51 °E)</u>				Zapovednik
Great Crested Grebe	4,000	4		6 years
Dalmatian Pelican	500	6		
Great Cormorant	10,200	4		

Whooper Swan	200	1	
Eurasian Wigeon	10,000	1	
Gadwall	26,300	1	
Red-crested Pochard	10,000	4	
Common Pochard	38,350	2	
Smew	18,000	5	
Goosander	800	1	
White-headed Duck	110	1	
Total waterbirds	42,054	1	
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56. Lake Syntas (50.67 °N, 69.00 °E)			-
Greater White-fronted Goose	8,000	1	3 years
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57. Lake Taban (50.47 °N, 69.58 °E)			Zapovednik
Dalmatian Pelican	246	1	6 years
Common Pochard	35,000	2	
Eurasian Coot	25,000	1	
Total waterbirds	38,046	3	
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58. Lake Tusashshy (50.38 °N, 70.30 °E)			-
Mallard	17,000	1	2 years
Total waterbirds	35,043	1	
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59. Lake Uyalysalkar (50.62 °N, 70.36 °E)			-
Great Crested Grebe	2,670	1	5 years
Dalmatian Pelican	805	2	
Whooper Swan	1,249	2	
Mallard	10,860	1	
Red-crested Pochard	350	1	
Total waterbirds	21,201	1	
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60. Lake Uzynkol (50.57 °N, 70.90 °E)			-
Greylag Goose	5,800	1	1 year
Ruddy Shelduck	3,600	1	
Mallard	24,850	1	
Total waterbirds	38,014	1	
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61. Lake Zhanybekshalkar (50.59 °N, 70.28 °E)			-
Great Crested Grebe	2,740	1	5 years
Dalmatian Pelican	320	2	
Whooper Swan	3,180	2	
Greater White-fronted Goose	20,000	2	
Greylag Goose	3,000	1	
Red-crested Pochard	531	1	
Smew	1,250	1	
Demoiselle Crane	8,400	4	
Total waterbirds	22,303	1	
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62. Lake Zharlykol (east of Arytky) (50.61 °N, 70.96 °E)			-
Great Crested Grebe	490	1	1 year
Greylag Goose	10,100	1	
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63. Lake Zharlykol (north of Burevestnik) (51.03 °N, 69.84 °E)			-
Greater White-fronted Goose	72,400	2	2 years
Total waterbirds	75,276	2	
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64. Lake Zharsuat (50.45 °N, 69.70 °E)			-
Red-necked Grebe	500	1	3 years
Great Crested Grebe	3,300	2	
Eurasian Wigeon	50,000	2	

Common Pochard	60,000	1	
Smew	480	1	
Eurasian Coot	70,000	2	
Total waterbirds	183,130	2	
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65. Lake Zhosaly (50.51 °N, 70.18 °E)			-
Demoiselle Crane	2150	1	2 years
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66. Lake Zhumaj (50.69 °N, 69.82 °E)			-
Black-necked Grebe	290	1	6 years
Eurasian Wigeon	15,000	1	
Gadwall	5,000	1	
Mallard	15,000	1	
Northern Pintail	15,000	1	
White-headed Duck	1,213	4	
Total waterbirds	62,329	2	
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67. Lake Zhylandyshalkar (50.65 °N, 70.42 °E)			-
Dalmatian Pelican	838	2	5 years
Whooper Swan	891	2	
Greater White-fronted Goose	50,000	1	
Greylag Goose	3,500	1	
Mallard	9,500	1	
Demoiselle Crane	3,930	1	
Total waterbirds	50,525	2	
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68. Nura north of Birtaban (50.51 °N, 69.98 °E)			-
Red-crested Pochard	2,330	1	1 year
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69. Reservoir Sotshinskoe (50.94 °N, 68.20 °E)			-
Ruddy Shelduck	1,800	1	2 years
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70. Shuruk spring (50.21 °N, 68.68 °E)			-
Common Shelduck	2,000	1	2 years
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71. Solonchak Shybarsor (50.47 °N, 69.74 °E)			-
Black-necked Grebe	1,020	1	2 years
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72. Solonchak Uzynsor (50.40 °N, 69.95 °E)			-
Red-crested Pochard	2,380	2	5 years