5.16 SUMMARY OF IMPACTS OF SUBMITTED ALTERNATIVES TO NATIVE AMERICAN TRIBES

The individual sections of this chapter discuss the impacts to the various environmental resources and economic uses analyzed for the Study on the 13 Tribal Reservations along the Mainstem Reservoir System and Lower River (see Figure 1.5-1 for locations). In the introduction to Chapter 5, readers were encouraged to consider the relative effects among the alternatives, not the absolute values presented for the various resources or uses. This section of Chapter 5 synopsizes the impacts in 12 tables, one for each Reservation except for the Iowa and Sac and Fox Reservations, for which impacts are addressed on a single table because individual tables for these two Reservations would be identical.

Tables 5.16-1 to 5.16-12 present the summary of impacts for the 13 Tribes. The numbering of the tables corresponds with the order of Reservation locations, going from upstream to downstream. The order of the listing of the environmental resource and economic uses corresponds with the order they are presented in this chapter to make it easier to refer back to the individual sections for more information on an individual resource or use. Taking the value of each alternative, subtracting the CWCP value for that specific use or resource for that Reservation from it, and dividing the difference by the CWCP value results in individual numbers for each use/resource in the tables. If a specific alternative increases the value from that of the CWCP, the percent change presented in the table is positive. If the value decreases relative to the CWCP, the percent change is negative. The reader is asked to focus attention on the "significant" changes. Significant positive changes are those greater than a +1 percent, and are shaded a light gray. Significant negative changes are greater than –1 percent and are shaded black with white lettering. A change of +1 represents changes up to 1.49 percent more than, or 101.49 percent of, the CWCP value due to rounding. Similarly, a -1 represents a change up to 1.49 percent less than, or 98.51 percent of, the CWCP value.

Caution must be used when focusing on the shaded percent changes because a resource may have a special meaning to those on one or more of the Reservations, and an "insignificant" change (+1, 0, or -1 in the tables) may be an important change to those on that Reservation. If one of the resources or uses falls into that category for those associated with that Reservation, those individuals are encouraged to note whether the change is slightly positive (+1), no change (0), or slightly negative (-1). A double dash (--) indicates that data were not available for that resource or use for that Reservation or that resource or use is not applicable to the reach in which that Reservation is located. Readers are encouraged to review the table/s of interest and to make their own "value" judgements.

Table 5.16-1. Fort Peck Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	-6	1	6	0	-14	-12
Riparian Habitat	0	0	0	0	0	0
Tern and Plover Habitat	12	-56	38	-5	-45	-54
Reservoir Young Fish Production	--	--	--	--	--	--
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	1	9	1	3	10	9
River Warmwater Fish Habitat	-1	-19	-11	-8	-17	-13
Native River Fish Physical Habitat	0	5	1	1	2	2
Flood Control	-1	0	0	0	-2	-2
Water Supply	0	10	0	5	14	14
Hydropower	--	--	--	--	--	--
Recreation	0	8	1	2	10	9
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-2. Fort Berthold Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	--	--	--	--	--	--
Riparian Habitat	--	--	--	--	--	--
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	4	7	-1	5	11	11
Reservoir Coldwater Fish Habitat	-2	12	-2	6	3	4
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	33	-100	-33	-67	-67	-67
Water Supply	-1	12	6	7	1	7
Hydropower	--	--	--	--	--	--
Recreation	-2	14	14	11	10	15
Navigation	--	--	--	--	--	--
Historic Properties	4	-11	-4	-4	-6	-6

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-3. Standing Rock Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	80	21	-7	-35	-45	-22
Riparian Habitat	3	-38	3	1	-21	1
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	5	-2	2	7	-1	1
Reservoir Coldwater Fish Habitat	-3	14	5	6	12	12
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	40	-80	0	-20	-60	-60
Water Supply	-6	18	9	10	12	10
Hydropower	--	--	--	--	--	--
Recreation	2	10	7	7	5	10
Navigation	--	--	--	--	--	--
Historic Properties	2	-5	-2	-2	-4	-4

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-4. Cheyenne River Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	42	-3	-26	-9	-28	-26
Riparian Habitat	122	-39	0	-11	-39	-28
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	5	-2	2	7	-1	1
Reservoir Coldwater Fish Habitat	-3	14	5	6	12	12
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	40	-100	-20	-40	-80	-80
Water Supply	13	13	13	0	0	13
Hydropower	--	--	--	--	--	--
Recreation	0	0	0	0	0	1
Navigation	--	--	--	--	--	--
Historic Properties	2	-5	-2	-2	-4	-4

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-5. Lower Brule Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	--	--	--	--	--	--
Riparian Habitat	--	--	--	--	--	--
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	2	-23	-4	-2	-6	-9
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	0	0	0	0	0	0
Water Supply	0	0	0	0	0	0
Hydropower	--	--	--	--	--	--
Recreation	0	0	0	0	0	0
Navigation	--	--	--	--	--	--
Historic Properties	0	0	0	0	0	0

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-6. Crow Creek Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	--	--	--	--	--	--
Riparian Habitat	--	--	--	--	--	--
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	2	-23	-4	-2	-6	-9
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	100	0	0	0	0	0
Water Supply	0	1	1	1	1	1
Hydropower	--	--	--	--	--	--
Recreation	0	0	0	0	0	0
Navigation	--	--	--	--	--	--
Historic Properties	0	0	0	0	0	0

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-7. Yankton Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	3	4	1	-1	5	6
Riparian Habitat	2	0	-2	0	-4	-8
Tern and Plover Habitat	17	127	19	3	99	111
Reservoir Young Fish Production	-5	34	-1	5	29	30
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	-5	-15	-9	-6	-22	-23
Native River Fish Physical Habitat	0	-1	-1	0	-1	-1
Flood Control	0	0	0	0	0	0
Water Supply	0	0	0	0	0	1
Hydropower	--	--	--	--	--	--
Recreation	0	-5	-1	-1	-2	-3
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-8. Ponca Tribal Lands impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	2	-6	-1	-1	-6	-7
Riparian Habitat	0	8	-5	-3	5	6
Tern and Plover Habitat	17	127	19	3	99	111
Reservoir Young Fish Production	--	--	--	--	--	--
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	-5	-15	-9	-6	-22	-23
Native River Fish Physical Habitat	0	-1	-1	0	-1	-1
Flood Control	0	0	0	0	0	0
Water Supply	--	--	--	--	--	--
Hydropower	--	--	--	--	--	--
Recreation	0	-5	-1	-1	-2	-3
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-9. Santee Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	2	-6	-1	-1	-6	-7
Riparian Habitat	0	8	-5	-3	5	6
Tern and Plover Habitat	17	127	19	3	99	111
Reservoir Young Fish Production	-2	28	13	33	26	28
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	--	--	--	--	--	--
Flood Control	0	0	0	0	0	1
Water Supply	0	0	0	0	0	0
Hydropower	--	--	--	--	--	--
Recreation	0	0	0	0	0	0
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-10. Winnebago Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	-2	-6	3	5	-1	3
Riparian Habitat	-1	-6	-1	-2	-4	-12
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	--	--	--	--	--	--
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	0	0	0	0	-1	0
Flood Control	0	-1	0	0	0	0
Water Supply	0	0	0	0	0	0
Hydropower	--	--	--	--	--	--
Recreation	-1	-8	-1	-1	-5	-6
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-11. Omaha Reservation impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	-2	-6	3	5	-1	3
Riparian Habitat	-1	-6	-1	-2	-4	-12
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	--	--	--	--	--	--
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	0	0	0	0	-1	0
Flood Control	0	-1	-1	0	0	-1
Water Supply	0	0	0	0	0	0
Hydropower	--	--	--	--	--	--
Recreation	-1	-8	-1	-1	-5	-6
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

Table 5.16-12. Iowa and Sac and Fox Reservations impacts summary for submitted alternatives.

	Percent Change from CWCP					
	MLDDA	**ARNRC**	**MRBA**	**MODC**	**BIOP**	**FWS30**
Wetland Habitat	-1	16	2	4	4	9
Riparian Habitat	0	-6	-1	-1	-2	-7
Tern and Plover Habitat	--	--	--	--	--	--
Reservoir Young Fish Production	--	--	--	--	--	--
Reservoir Coldwater Fish Habitat	--	--	--	--	--	--
River Coldwater Fish Habitat	--	--	--	--	--	--
River Warmwater Fish Habitat	--	--	--	--	--	--
Native River Fish Physical Habitat	0	5	1	1	3	4
Flood Control	0	0	0	0	0	1
Water Supply	--	--	--	--	--	--
Hydropower	--	--	--	--	--	--
Recreation	0	-2	0	0	-2	-2
Navigation	--	--	--	--	--	--
Historic Properties	--	--	--	--	--	--

Light gray shading denotes a beneficial impact when compared to the CWCP.
Black shading denotes an adverse impact when compared to the CWCP.
-- denotes not available or not applicable.

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