GOALS	OBJECTIVES		Example Actions or Projects	Primary Contact	Supporting Organizations	Status	RRBC Role			
							Lead	Review/Comment	Communciate	Other
1 Manage natural resources in the	1.1 Raise awareness of the benefits of basin-wide	1.1.1	Education and adoption of the NRFP by member jurisdictions	RRBC		Current	•			
RRB by watershed boundaries	planning for decision makers and the public	1.1.2	Continue to refine basin goals and processes for NRFP implementation	RRBC		Current	•			
		1			2222	a			_	
	1.2 Increase coordinated and comprehensive	1.2.1	Roseau River International Watershed hydrologic study - MB	WEDC; MB Conservation	RRBC, others	Completed		•		
	watersnea planning	1.2.2	Pembina River Basin Advisory Board activities - ND & MB	PRBAB	RRBC	Current		•		
		1.2.4	North and South Dakota Wild Rice watershed efforts	RRBC	hube	Current	•			
		1.2.5	North Dakota Wild Rice River Watershed Project	Wild Rice SCD, others		Current		•	•	
		1.2.6	North Dakota Devils Lake Plan	Devils Lake Joint Powers Board	ND SWC & local	Current		•	•	
		1.2.7	North Dakota Red River Mainstem Plan	Red River Joint Powers Board	ND SWC & local	Current		•	•	
		1.2.8	Manitoha Conservation Districts and Water Management Associations	MB WS	local	Current		• •		
		1.2.10	Brokenhead River Restoration Project - MB	Brokenhead River - local group	RRBC	Current		•		1
		1.2.11	Minnesota Wild Rice Watershed Management Plan	Wild Rice WD	local/state/federal	Completed		•		
		1.2.12	Minnesota Bois de Sioux Watershed Management Plan	Bois de Sioux WD	local/state/federal	Completed		•	•	
		1.2.13	Minnesota Two Rivers Watershed Management Plan	Two Rivers WD	local/state/federal	Current		•	•	
		1.2.14	Minnesota Roseau River Watershed Management Plan & hydrologic studies	Joe River WD	local/state/federal	Completed				
		1.2.16	Minnesota Red Lake Watershed Management Plan	Red Lake WD	local/state/federal	Current		•	•	
		1.2.17	Minnesota Buffalo Red Watershed Management Plan	Buffalo Red WD	local/state/federal	Current		•	•	
		1.2.18	Provide a forum for identifying, developing and implementing solutions to cross boundary issues	RRBC		Planned	•			
2 Integrate natural resource	2.1 Conduct integrated, comprehensive, multi-	2.1.1	Fargo-Moorhead Upstream Feasibility Study	USACE	local/state	Current		•	•	
management	disciplinary planning efforts, policies, projects	2.1.2	Greenway programs	Greenway on the Red, Rivers		Current		•	•	
	and programs that accommodate a balance in	2.1.2		West, Grand Forks					-	-
	resource preservation, conservation, and	$\frac{2.1.3}{2.1.4}$	Agassiz Valley water Resource Management Area (MN)	Roseau River WD	USACE	Planned			•	•
	<i>consumption</i>	2.1.7 2.1.5	North Ottawa Dam (MN)	Bois de Sioux WD	USHCL	Current		•	• •	
		2.1.6	Review US, MN, ND conservation programs for applicability in MB	MB WS	RRBC	Planned	•		•	
		2.1.7	MPCA Red River Basin Plan	MPCA		Current		•	• •	
	2.2 Apply conservation criteria in the review and									
	approval of all land-use plans, projects and	2.2.1	Increase planners' awareness of conservation principles	RRBC	local governments	Planned		•	•	
	programs									
3 Increase applied research and data	3.1 Distribute data and research to decision						+	•	_	-
management to support decision-	5.1 Distribute data and research to decision	2 1 1	Identify and share research needs and some	IWI, EERC, post-secondary	DDDC	Comment				
making	makers	3.1.1	Identify and share research needs and gaps.	Institutions	KKBU	Current			_	
			Support continued development, funding, and use of RRB Decision Information	ı IWI	RRBC, PPTV, NDSU			•	•	
├ ──┤		3.1.2	Increase of subsurface (tile) drainage on access and shalling	Liniversity of MN	NDCS MN A ~ MDC 4	Current	+	• •		+
		5.1.5	Impact of subsurface (file) drainage on aquatic ecosystems: interature study		NRCS, MN Ag, MPCA	Current		•••	-	
	3.2 Standardize collection, storage, and sharing of land and water resources data	f 3.2.1	Coordinated ecological data collection (biological and water quality monitoring) to define reference conditions in 2005/2006	ND DoH, MPCA, MB WS	AEC, IWI	Current			•	
							+			
	Develop and use standardized technical models	s		IWI; NDSWC; MB WS,				•	•	
	3.3 to support decision making	3.3.1	MIKE- 11 mainstem unsteady flow model from Lake Traverse to Lake Winnipeg	RRWMB, USACE	RRBC	Current				
		3.3.2	Coordinate above with the development of HEC/RAS unsteady flow model from Lake Traverse to the Canadian border	USACE	RRBC & EERC	Current		•		
		333	Lower Pembina area modeling - link with MIKE-11 above	RRBC	PRBAB. IJC	Current	•	•		
		5.5.5	Development of 3-D groundwater models for the entire basin similar to that of the		,		+	•	•	
		3.3.4	Minnesota Geological Survey/BOR			Planned				
			·							

	GOALS	OBJECTIVES		Example Actions or Projects Primary Contact		Supporting Organizations	Status	R	RBC	Rol	5
								Lead	Review/Comment	Communciate	Other
	3.4	Develop and use Geographic Information									-
		Systems for data management and planning	3.4.1	Identify and share use of GIS products for comprehensive watershed planning	local/state/provincial/federal	EERC, RRBDIN	Planned			•	-
4	Improve stakeholder participation 4.1	Develop a stewardship ethic in the RRB	4.1.1	Define and adopt a stewardship ethic for RRBC members	RRBC		Planned	•			<u> </u>
	and awareness of land and water										
	-issues	Provide comprehensive watershed education and outreach for all audiences/stakeholders	4.2.1	Provide annual report card on comprehensive, integrated watershed stewardship and management			Planned	•			
			4.2.2	Develop appropriate informational and educational resources for watershed education & outreach	IWI, RiverKeepers, RRBC, many others		Current		•	•	
			4.2.3								
				Develop appropriate school curricula and monitoring programs for all grades. Examples:				+			<u> </u>
				Red River Water Festival - Fargo-Moorhead	RiverKeepers Division scholaire Franco-Manitob	MR WS RRRC	Current	+	_	•	\vdash
				Riverwatch - MN & ND high schools	RRWMB. IWI	and ws, KKDC	Current			•	-
				Envirothon	MB, MN, ND, SD		Current			•	
				Project WET	MB, MN, ND, SD		Current			٠	
			121	Ecological Monitoring & Assessment Network (EMAN)	Environment Canada	CWCD	Current		-	•	
			4.2.4	programs	MPCA/KKBC	SwCD	Current		•		
			4.2.5	Continue to convene the MN Joint Powers Board	RRBC		Current	•			
			4.2.6	Continue to convene MB North and South RRBC Chapters & conduct workshops	RRBC		Current	•			
			4.2.7	Presentations to CDs & WMAs - MB	RRBC		Current		•		
			4.2.8	Revision of Lake Winnipeg Shoreline Management Handbook	RRBC	MB WS, DFO	Planned	•			
	4.3	Provide opportunities for early involvement of	4.2.9	Use the RRBC Annual conference to provide education and outreach ND Water Education Foundation	RRBC	many	Current	•	-		
-		project stakeholders	4.3.2	MPCA Red River Basin Water Quality Team/Red River Reporter	MPCA	various	Current			•	
	4.4	Increase awareness of the economic and environmental benefits of programs available	4.4.1	Promote & develop conservation programs throughout the basin	local, state, provincial and federal agencies	RRBC, Agricultural extension services	Planned			•	
		to landowners and decision-makers	4.4.2	Continue projects (MN Buffer Initiative and CREP) that reach out to landowners (lines 9.3.3 & 11.1.2 below)							
FL(5	OOD DAMAGE REDUCTION Maintain state of the art flood 5.1	Increase data availability and level of	5.1.1	MIKE-11 Mainstem hydrology model (line 3.3.1 above)							+
	forecasting tools for the Red River	coordination between jurisdictions for flood	5.1.2	WAFFLE Project	EERC	NRCS	Current			•	
	Rosin	forecasting and planning	5.1.3	Implement recommendations of the IJC Living with the Red Report	Federal, state & provincial agencie	s	Planned	+	•	_	
6	Reduce risk of flood damages for people, property and the 6.1	Implement flood mitigation measures that reduce risk to individuals and communities on	6.1.1	Inventory FDR measures (ring dikes, floodways, elevation of property, buy-outs, green spaces, floodplain management, etc.) by community	RRBC &/or partners		Planned		•		
	environment in the mainstem	the mainstem and tributaries	6.1.2	Develop a Comprehensive Flood Mitigation Plan	Federal, state & provincial	IJC, IRRB,RRBC	Planned		•		
	floodplain and in tributary		6.1.3	Tobacco Creek Model Watershed Project (MB)	Deerwood Soil and Water Manager	ment Association	Current	+	_	•	
<u> </u>	watersheds		0.1.4 6.1.5	Maple River Dam (ND)	Cass County Joint Water	KKBU, KKIW	Current	+	• •		+
					Resources District, ND SWC						
			6.1.6	North Ottawa Dam (line 2.1.5 above)				+			\vdash
	62	Imploment flood mitigation strategies in the	6.1.7	Fargo-Moorhead Upstream Feasibility Study (line 2.1.1 above)				+		_	+
	0.2	implement flood miligation strategies in the upper basin (escarpment and baseb ridges)	6.2.1	Estimate collective benefits of projects using the MIKE-11 mainstem model (line 3.3.1)	RRBC &/or partners		Planned	•	•		+
		that reduce risk locally and downstream	6.2.2 6.2.3	Define flood damage reduction needs in the upper basin that are not being met CFMP (Line 6.1.2 above)	RRBC &/or partners		Planned	•	•		
			1	2	l		1		1		L

GOALS	OBJECTIVES		Example Actions or Projects	Primary Contact	Supporting Organizations	Status		RRB	le	
							Lead	Support Review/Comment	Communciate	Other
7 Ensure that flood (natural disaster) response and recovery programs	<i>Increase availability of response and recovery</i> 7.1 programs that are adequate and equitable to	7.1.1	Document program availability, identify gaps (ND DEM, MEMO, FEMA, etc)	RRBC & partners		Planned		•		
meet the needs of all RRB residents	residents in all jurisdictions	7.1.2	Comprehensive Flood Mitigation Plan (line 6.1.2 above)							
DRAINAGE										—
8 Manage urban and agricultural	8.1 Manage drainage systems to protect ag land	8.1.1	Develop drainage protocols for MB	DFO	Agencies, NGOs	Current			•	
drainage systems to enhance productivity while minimizing impacts to others	(using 10 year/24 hour or better criteria) and to minimize environmental impacts	8.1.2 8.1.3	Tile Drainage study (line 3.1.3 above) Continue projects (MN Buffer Initiative and CREP) that minimize environmental							<u> </u>
	8.2 Design and improve drainage systems with	8.2.1	Promote stream restoration concepts as FDR measures	Federal, state, provincial	RRBC & partners	Planned		•	•	,
	consideration of local, sub-watershed and mainstem effects									<u> </u>
	Dasian and implement urban and rural storm	831	Red River Regional Stormwater Coordination Program for Fargo Moorhead Grand	FFPC	local and state	Current				
	8.3 water strategies that minimize environmental impacts	0.3.1	Forks, East Grand Forks							
										—
WATER QUALITY Maintain protect and restore	Develop a common approach to defining							•		
o surface and ground water quality in	setting, monitoring and assessing water quality	0.1.1	Provide a forum for each jurisdiction to discuss issues related to implementing basi			C (
the Red River Basin	goals and conditions in the Red River Basin	9.1.1	approaches to water quality management	AEC, MB WS, MPCA, ND DOH	RRBC, IWI	Current				_
		9.1.2	Ensure jurisdictional interpretation of water quality data is undertaken with a basin-wid	RRBC	IJC, AEC	Planned	•		•	—
		5.1.5	perspective. Example: Participate in the MPCA's biennial best professional judgmer group assessing water quality (July 2005)	at		Tained				
		9.1.4	Project EMPACT - Fargo-Moorhead water monitoring & citizen outreach	RiverKeepers		Current			•	,
	Develop scientifically-based water quality	9.2.1	Provide a forum for each jurisdiction to discuss issues related to developing restoration	m MB WS, MPCA, ND DoH, USGS	5,			•		
	9.2 restoration goals for impaired water bodies in the basin		goals	others	AEC, RRBC, IWI	Planned				<u> </u>
		0.2.1	Investore and the second secon			Comment				
	(NPS) pollution to protect basin surface and	9.3.2	Implementation of best Management reactices (BMP) throughout the basin	State & provincial agencies		Current		•		.—
	ground water		Example: Fargo-Moorhead TMDL study (Turbidity & Fecal coliform)	RRBC	MPCA, ND DoH	Current	٠			
		9.3.3	Red River Basin Buffer Initiative (MN)	RRBC	MPCA	Current	•			—
		9.3.4		MB. MIN. ND agencies		Current			• •	
	9.4 Develop coordinated strategies to reduce 9.4 loadings of nutrients to Lake Winnipeg by 10 %	9.4.1	Provide a forum for each jurisdiction to discuss issues related to developing strategies t reduce nutrient loading to Lake Winnipeg	⁰ LWSB, MB WS, state agencies	RRBC, AEC	Planned		•	•	-
	within five years to support the recommendations of the IRRB	9.4.2 9.4.3	Impose Basin Plan (line 2.1.7 above) Lake Winnipeg Dredging Study II	DFO	MB WS, RRBC	Planned	•			+
	0.5 2	0.5.1								+
	<u> </u>	9.5.1 9.5.2	Water Quality Forum (line 9.1.1 above) Basin-wide analysis of nutrient concentrations and loads (line 9.1.2 above)							+
	basin, including those established by the IIC at	7.5.2	Subir and analysis of nutrent concentrations and loads (line 7.1.2 above)							
	the international boundary and those established by other jurisdictions									+

GOALS	OBJECTIVES		Example Actions or Projects	Primary Contact	Supporting Organizations	Status	RRI	BC Role	e
							ead upport	eview/Comment communciate	Other
9.	Develop and coordinate programs to prevent 6 the further spread of non-native aquatic species	9.6.1	Provide a forum for each jurisdiction to discuss issues related to control and management of exotic species.	MB WS, MPCA, ND DoH	AEC, RRBC, IWI	Planned	•	•	
	introduction of new species to the basin	9.6.2	Provide basin-wide perspective to each jursidiction's programs (e.g., ND Aquation Nuisance Species plan, developed 2005)	MB, MN, ND, SD	AEC, RRBC, IWI	Planned	•		
WATER SUPPLY Ensure the appropriate use and	Develop a basin wide strategy to mget current	9.6.3	Provide basin-wide perspective to jurisdictional interpretation of exotic species status.	MB, MN, ND, SD	AEC, RRBC, IWI	Current			+
10 sustainability of the Basin's surface- and ground-water	<i>1</i> and projected water supply needs in the basin	10.1.1	for eastern ND)	BOR	Local, State and federal				<u> </u>
	2 Develop water supply emergency management plans for contamination, drought and flooding	10.1.2 10.1.3	Lake Agassiz Water Authority - East ND Water Supply Establish a basin water allocation and use task force	Garrison Conservancy District, BC MB, MN, ND, SD local, state & provincial agencies	DR RRBC	Current Current Planned	•	• •	
	3 Develop an understanding of the approaches and differences in minimum in-stream flow	10.4.1	Use task force established in 10.1.3 to assess this issue	MB, MN, ND, SD	RRBC, IJC	Planned	•	•	
CONSERVATION 11 Increase soil conservation efforts within the basin	I Increase availability of conservation programs to landowners through establishment of appropriate delivery organizations	11.1.1 11.1.2 11.1.3 11.1.4	Enhance and develop local delivery of conservation programs CREP II - Red River Basin (MN) MN Buffer Initiative (line 9.3.3 above) Greencover Canada	Federal, state, provincial agencies BWSR, FSA PFRA	RRBC Agriculture & Agri-Food	Current Current Current	•	•	
11.	Manage land and land uses to minimize runoff and maintain soil on site (i.e., through the use of Best Management Practices)	11.2.1	Provide a forum for watershed managers and soil conservation staff to strategize how to implement this recommendation.	RRBC	Canada WDs, SWCDs, SCDs, CDs, WMAs	Planned	•		
		11.2.2	Continue projects (MN Buffer Initiative and CREP) that minimize runoff & erosion (lines 9.3.3 & 11.1.2 above)						
FISH, WILDLIFE, OUTDOOR RECREATION 12 Conserve, manage, and restore diversity and viability of native fish and wildlife populations and their bability	Maintain, enhance and protect aquatic and I terrestrial populations	12.1.1	Provide a forum for agency staff to strategize how to implement this recommendation.	RRBC	MB Cons, MN DNR, ND/SD Game & Fish, USFWS	Planned	•		
	<i>Enhance, protect or restore natural systems</i> <i>(natural floodplains, stream functions, riparian areas wellands, grasslands and woodlands)</i>	12.2.1	Provide a forum for agency staff to strategize how to implement this recommendation.	RRBC	MB Cons, MN DNR, ND/SD Game & Fish,	Planned	•		
		12.2.2 12.2.3	Continue projects (MN Buffer Initiative and CREP) that enhance natural systems (lines 9.3.3 & 11.1.2 above) Greenway programs (line 2.1.2 above)						
12.	Enhance or develop corridors between habitat blocks	12.3.1	Provide a forum for agency staff to strategize how to implement this recommendation.	RRBC	MB Cons, MN DNR, ND/SD Game & Fish, USFWS, USGS	Planned	•		
	4 Identify and protect rare and unique species, habitat types and plant communities	12.4.1	Provide a forum for agency staff to strategize how to implement this recommendation.	RRBC	MB Cons, MN DNR, ND Game & Fish, USFWS	Planned			

4

	GOALS		OBJECTIVES		Example Actions or Projects	Primary Contact	Supporting Organizations	Status	RI	RBC Role	e
									Lead Support	Review/Comment Communciate	Other
13	Enhance and develop recreational		Increase awareness and participation in			RRBC, River Keepers, others	MB Cons, MN DNR, ND		• •	•	
	infrastructure and access to the	13.1	outdoor recreational opportunities by the	13.1.1	Provide a forum for agency staff to strategize how to implement this recommendation.		Parks & Rec, SD	Planned			
	Basin's natural resources		general public	1312	Inventory all public lands available for outdoor recreation	RRBC	as above	Planned	• •	• •	
				13.1.2	Greenway programs (line 2.1.2 above)	KKDC		1 famileu			-
	-			13.1.4	River Keeprs programs; Fishermen's Derby; Race the Red Canoe Race				·		-
						RRBC	MB Cons. MN DNR. ND		•		
		13.2	Promote unique PPP habitate to enhance	13.2.1	Provide a forum for agency staff to strategize how to implement this recommendation.		Parks & Rec, SD	Planned			
			a conomic development and quality of life								
			economic development and quality of tife		List of Acronyms				<u> </u>		+
	AEC	Aquatic	Ecosystem Committee (reports to the IRRB)			ND DoH	North Dakota Departme	nt of Health			+
	BOR	Bureau o	of Reclamation (US Federal Agency)			ND SWC	State Water Commission	(ND)			
	BWSR	Board of	f Soil & Water Resources (MN)			NDSU	North Dakota State Univ	ersity (Fargo)			
	CD	Conserva	ation District (MB)			NRFP	Natural Resources Fram	ework Plan (RRBO	J)		
	CREP	Conserva	ation Reserve Enhancement Program (funded	jointly k	by the US Department of Agriculture & participating state)	NRCS	Natural Resources Conse	ervation Service (U	.S. De	epartmen	t of
	DFO	Departm	ent of Fisheries & Oceans Canada			PFRA	Prairie Farm Rehabilitat	ion Administration	a		
	EERC	Energy a	and Environmental Research Center (Universit	ty of No	rth Dakota, Grand Forks)	PPTV	Prairie Public TV				
	FDR	Flood Da	amage Reduction			PRBAB	Pembina River Basin Ad	visory Board (MB	, ND)		
	FSA	Farm Se	rvice Agency (U.S. Department of Agriculture))		RM	Rural Municipality (MB))			
	GIS	Geograp	hic Information Systems			RRBC	Red River Basin Commis	ssion			
	HEC-RAS	A compu	iter model that simulates water flow (developed	d by US	ACE)	RRBDIN	Red River Basin Decision	Information Netv	vork (rrbdin.or	:g)
	IJC	Internati	ional Joint Commission			RRIW	Roseau River Internation	n Watershed (MB,	MN)		
	IRRB	Internati	ional Red River Board (reports to the Internati	ional Jo	int Commission)	RRWB	Roseau River Watershed	Board (MB, MN)			<u> </u>
	IWI	Internati	ional Water Institute (formerly Red River Basi	in Instit	ute)	RRWMB	Red River Watershed Ma	anagement Board	<u>MN)</u>		-
		Lake Wi	Innipeg Stewardship Board			SCD	Soil Conservation Distric	t (ND & SD agenc	les)		
	MB Cons	Manitob	a Conservation	1)		SWCD	Soil and Water Conserva	tion District (MN	agency	<u>y)</u>	+
		Departm	tent of water Stewardship (Province of Manito	DDA)		USACE	United States Army Corp	bs of Engineers			+
	IVIIN Ag MN DND	Minneso	ta Department of Natural Descurses				U.S. FISH and Whanfe Se Watershed District (MN)	i vice	\square	+	+
		Minneso	ta Department of Matural Accounces			WEDC	Western Feonomic Diver	sification Canada	$ \longrightarrow $		+
	MIKE-11	A compu	iter model that simulates water flow (developed	d by DH	I Software Inc)	WEDC	Water Management Asso	ciations (MR	-+	\rightarrow	+
	NGO	Non-gov	ernmental organization	, D II		T T T T T T T T T T T T T T T T T T T	, and management Abbe				+
				1			1	1	. 1	1	