CRESCENT LAKE/NORTH PLATTE NATIONAL WILDLIFE REFUGE COMPLEX SCOTTSBLUFF/ELLSWORTH, NEBRASKA

ANNUAL HABITAT MANAGEMENT PLAN 2005

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Recommended to the Regional Director for final approval:

Newly Submitted: Crescent Lake NWR Refuge Manager	// Zo/os Date
Crescent Lake/North Platte Complex Project Leader	2/24/05 Date
Approved: Assistant Regional Director NWR	Date
Concur: Refuge Field Supervisor	Date
Reviewed: Chief, Div of Water Resources	Date
Reviewed: Regional Wildlife Biologist	Date

UNITED STATES DEPARTMENT OF INTERIOR
FISH AND WILDLIFE SERVICE

Annual Habitat Plan For Crescent Lake NWR 2005 (Grassland Management)

Management	Sub Unit	Treatment	Current	Resources of Concern	Habitat Objective	Management Prescription	Monitoring Emphasis		
Unit		Acres	Condition	(Conservation Targets)					
1	11, 12	590	Grazed 2003	Nesting Waterfowl (mallard, bw teal,	Increase warm season grasses 5%.	Remove .2 aums/acre on sands and .7 aums/acre on	Monitoring by years since disturbance for vegetation		
2	8	269	Burned 2004	shovler, gadwall)	Invigorate	meadows, between March 1	structure (Robel pole and		
	18	216	Hayed 2004	sharptail grouse and	grassland by	and May 31.	Duabmire frame) and waterfowl		
3	16e, 25	718	Grazed 2001	nesting grassland	maximizing	and way 51.	nesting success is being measured		
	30, 30a	233	Grazed 2004	passerines.	VOR's and forbs.		on 4 units.		
4	38,	495	Burn 2004	passernes.	Reduce litter depth		on 4 units.		
	40,		Grazed 1999		to < 2cm.				
5	49, 50	1305	Grazed 2004		10 1 2011.				
5	16b 57	945 1934	Grazed 2004 Grazed 2000	Plant and wildlife diversity	Increase plant and wildlife diversity. Maintain wildlife	Remove .2 aums/acre from May 1 to Oct 10. (With a spring and summer	Grouse lek survey, Nest drag. Monitoring vegetation structure and composition (Robel pole and		
					numbers and nest success > 30%.	prescribe burn, see below)	Duabmire frame).		
2	8, 17, 18	90	Area has been hayed the past two years.	Nesting avocets.	Reduced VOR to encourage avocets into nesting farther from alkali ponds to increase apparent nest success to > 30%.	Hay between August 1 and September 10.	Nest search for American avocets.		
1	1	650	Grazed 2003	Nesting Waterfowl	Increase warm	Remove .1 aums/acre from	Monitoring by years since		
	2	380	Grazed 2003	(mallard, bw teal,	season grasses 5%.	September 1 to October 30.	disturbance for vegetation		
	3,4	328	Grazed 2003	shovler, gadwall) sharptail grouse and nesting grassland passerines.	Invigorate grassland by maximizing VOR's and forbs.		structure (Robel pole and Duabmire frame) and waterfowl nesting success is being measured on these units.		
5	59	2022	Grazed 2002		Reduce litter depth to < 2cm.	Remove .2 aums/acre from September 1 to October 30.			
1	14	280	Grazed 2004	Blowout Penstemon	Open up sand to	Remove .25 aums/acre	Penstemon survey, Lizard Study		
3	29, 29a	815	Grazed 2003	Curlew, Lark sparrow	wind by removing	from September 1 to	Monitoring by years since		
5	42a	1260	Grazed 2003	Lizards	as much cover as possible	December 30.	disturbance for vegetation structure (Robel pole and Duabmire frame)		
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Management	Sub Unit	Treatment	Current	nagement) RXburn Resources of Concern	Habitat Objective	Management Prescription	Monitoring Emphasis
Unit	Dub Cini	Acres	Condition	(Conservation Targets)	Thiorian Objective	ridiagement i rescription	Womtoning Emphasis
Ramelli cattails	3	45	Unkown years since treatment	Migrating and breeding waterfowl.	Reduce cattail cover. Maintain 50/50 hemi-marsh for pairs.	Rxburn March Fill to maximum pool	None planned
Meadows	1	55	Grazed 2003	Nesting waterfowl, passerines and upland	Convert from cool season to warm	Rxburn between April 20 and May 15.	Vegetation structure/composition surveys before/after burn (Robel
	1	25	Grazed 2003	nesting shorebirds.	season to warm season grasses by	and May 15.	pole Duabmire frame).
	6	90	Grazed 2001	nesting shoreoirus.	5%. Maximize		pole Duaonnie tranie).
	10	110	Grazed 2003		VOR's.		
	16b	70	Grazed 2004		VOIC S.		
	32	55	Grazed 2004	Goose foraging Goose foraging Goose foraging	Waterfowl nest success >15% Mayfield.		
	34	85	Grazed 2003				
	36	70	Grazed 2004				
	42	75	Rest 20+ year			i e	
<u></u>	59	200	Grazed 2003		Other nesters		
	24	40	Burned 2002		> 30 % apparent nest success.		
	27	35	Grazed 2004				
	35	35	Burned 2000				·
Sands	16 b	80	Grazed 2004	Plant and wildlife	Increase plant and	Rxburn between April 1-	Grouse lek survey, Nest drag.
	57	65	Grazed 2002	diversity	wildlife diversity. Maintain wildlife	30. Graze in 2005 (see above).	Monitoring vegetation structure and composition (Robel pole and
	16b	85	Grazed 2004		numbers and nest	Rxburn between August 1	Duabmire frame).
	57	200	Grazed 2002		success > 30%.	and September 30. Graze	
	44	200	Grazed 2004			in 2005 (see above).	
	31	170	Grazed 2004	Nesting passerines,	Convert from cool	Rxburn between April 20	Vegetation structure/composition
	37	320	Grazed 2000	prairie grouse and	season to warm	and May 15	surveys before/after burn (Robel
	59	175	Grazed 2003	upland nesting shorebirds.	season grasses by 5%. Maximize VOR's.	•	pole Duabmire frame).
	Pensternon	30	Grazed 2003 or 2004	Blowout Penstemon	Remove cover to allow sand movement and blowout maintenance.	Rxburn between August 1 and September 30.	

Annual Habitat Plan For Crescent Lake NWR 2005 (Water Management)

Management	Resources of Concern	Habitat Objective	Current Condition	Management Prescription	Monitoring Emphasis
Unit	(Conservation Targets)]
Smith	Migrating waterfowl	Provide forage areas by	36,86 feet	Refill until mid-April. Drop	Pair Count, Invertebrate
	and shorebirds	manipulating shoreline water depth	Gauge reading	10" from May 1 to May 30.	sweeps
Bean Crossing	Breeding waterfowl	Increase water surface for pair	Drawn down 1.3 ft	Fill to maximum pool 3 ft	Pair Count
_		ponds.	Gauge reading	Gauge reading	
Perrin	Migrating waterfowl	Provide forage areas by	25.5 ft	Fill to 26.5 ft gauge reading by	Pair Count, Invertebrate
	and shorebirds	manipulating shoreline water depth	Gauge reading	May 10	sweeps
		1		Lower 4" in late May early	
				June.	
Redhead	Migrating waterfowl	Provide forage areas by	2.6 ft	Fill to 3.5 ft in late May	Pair Count, Invertebrate
	and shorebirds	manipulating shoreline water depth	Gauge reading	Gauge reading	sweeps
Upper Harrison	Migrating waterfowl	Increase submergent vegetation -	Drawn down 14 ft	Fill to 15.5-16 ft	Pair Count, Invertebrate
	and shorebirds	invertebrate production for forage	Gauge reading	Gauge reading	sweeps

Annual Habitat Plan For Crescent Lake NWR 2004 (Water Management Results)

Management Unit	Resources of Concern (Conservation Targets)	Habitat Objective	Management Treatment	Actual Treatment	Wildlife use
Martin	Migrating waterfowl and shorebirds, Nesting Terms Provide forage areas by manipulating shoreline water depth. Provide flooded Rush		ulating shoreline water		Migrating Waterfowl Excellent
Ramelli	Migrating waterfowl and shorebirds	Provide forage areas by manipulating shoreline water depth	Remain at Normal Pool	Half Pool due to drought	Migrating Waterfowl Excellent
Smith	Migrating waterfowl and shorebirds	Provide forage areas by manipulating shoreline water depth	Release 6" in Spring to refill Redhead	Released 6" in Spring to refill Redhead, Normal Pool	Migrating Waterfowl Good
Bean Crossing	Breeding waterfowl	Increase water surface for pair ponds.	Release in spring to refill redhead, refill and release in fall.	Released in spring to refill redhead, refill and released in fall.	
Perrin	Migrating waterfowl and shorebirds	Provide forage areas by manipulating shoreline water depth	Release 4" in May then normal pool.	Released 4' in May went below normal pool due to drought.	Migrating Waterfowl and Shorebird Excellent
Redhead	Migrating waterfowl and shorebirds	Provide forage areas by manipulating shoreline water depth	Refill in Spring to provide foraging habitat	Refilled Spring Normal pool Fall	Migrating Waterfowl Excellent
Upper Harrison	Migrating waterfowl and shorebirds	Increase submergent vegetation – invertebrate production for forage	Remain drawndown to allow for annual vegetation	Drawndown	Migrating Waterfowl Excellent
West Jones	Migrating waterfowl and shorebirds	Provide foraging habitat	Leave to Natural Influence	Half pool due to drought	Migrating Waterfowl Excellent
Duck Slough	Migrating waterfowl and shorebirds	Provide foraging habitat	Leave to Natural Influence	Half pool due to drought	Migrating Waterfowl Excellent
Gimlet Lake	Migrating waterfowl and shorebirds	Provide foraging habitat	Leave to Natural Influence	Half pool due to drought	Migrating Waterfowl Excellent

Eldred Diversion Flume Readings c.f.s.

	January	February	March	April	May	June	July	August	September	October	November	December
Flume Readings	7.48	8.74	7.34	12.5	3.53	3.19	5.11	5.48	4.39	1.33	3.39	4.68

Habitat Plan For North Platte NWR 2005 Grazing										
Management	Sub Unit	Treatment	Current Condition	Resources of Concern	Habitat Objective	Management	Monitoring Emphasis			
Unit		Acres		(Conservation Targets)		Prescription				
Lake Alice	1	280	< 30 % Grass	Plant and wildlife	Increase warm	Spring Graze April	Vegetation			
			Cover	diversity and increase	season grasses 5%.	15 - June 10	structure/composition			
			Grazed 2001	grass cover.	Invigorate grassland		surveys before/after			
					by maximizing		burn (Robel pole			
					VOR's and forbs.		Duabmire frame).			

Habitat Plan For N	North Platte	NWR 2005 R	xBurn				
Management Unit	Sub Unit	Treatment Acres	Current Condition	Resources of Concern (Conservation Targets)	Habitat Objective	Management Prescription	Monitoring Emphasis
Winters Creek	Outlet	10	Grazed 2001	Plant and wildlife diversity	Increase warm season grasses 5%. Invigorate grassland by maximizing VOR's and forbs.	Rxburn April	Vegetation structure/composition surveys before/after burn (Robel pole Duabmire frame).
Lake Alice	1	80	< 30 % Grass Cover Grazed 2001	Plant and wildlife diversity and increase grass cover.	Increase warm season grasses 5%. Invigorate grassland by maximizing VOR's and forbs.	Rxburn April	Vegetation structure/composition surveys before/after burn (Robel pole Duabmire frame).
State Line Island	East	50-90	Down Woody trash from Russian Olive removal treatment.	Russian Olive	Reduce down woody Russian Olive	Rxburn between March 15 May 15	First Order Fire Effects
Lake Minatare	Corral	30		Plant and wildlife diversity	Increase warm season grasses 5%. Invigorate grassland by maximizing VOR's and forbs.	Rxburn April	Vegetation structure/composition surveys before/after burn (Robel pole Duabmire frame).

Habitat Plan For North Platte NWR 2005 Seeding										
Management	Sub Unit	Treatment	Current Condition	Resources of Concern	Habitat Objective	Management	Monitoring Emphasis			
Unit		Acres		(Conservation Targets)		Prescription				
Lake Alice	1	10 - 40	< 30 % Grass	Plant and wildlife	Increase warm	Seed at 4-6lbs/acre	Vegetation			









