

File: Union
Slough
800.65

Herzberger
4/2/84

April 2, 1984

Acting Regional Refuge Supervisor, FWS, Twin Cities, MN(RF 2)
1984 Land Use Plan

Refuge Manager, Union Slough NWR, Titonka, IA

The subject plan is approved as written.

Leland E. Herzberger

Attachment

WILDLIFE RESOURCES ROUTING SLIP

☐ BENSON
☐ Percy
☒ COORDINATOR
☐ OETTING
☐ Goodwin

DEPUTY AW

☐ BEKERIS
☐ O'Donnell

Wildlife Assistance

☐ TOWN
☐ Winters
☐ Goodwin

Realty

☐ FOLLRATH
☐ Christensen
☐ DeMarais
☐ Dooley
☐ Goettl
☐ Grimwood
☐ Hagquist
☐ Harrison
☐ Hietikko
☐ Jensen
☐ Little
☐ Schurr
☐ Shuda
☐ Tate
☐ Wilhelm
☐ Borgen
☐ Lynch
☐ West

DIV. OF REFUGES I

☐ TOLTZMANN
☐ Wilds

DIV. OF REFUGES II

☒ ELLIS
☐ Hamernick

OFC. OF PROGRAM SUPPORT & STAFF SERVICES

1 ☒ YOUNG
 2 ☒ Winship
☒ O'Donnell

Budget & Administration

☐ DONOVAN
☐ Frans
☐ Rockwood

Technical Services

☐ WEIER
☐ Dobrovolny
☒ Gale
☐ Gibbons
☐ Jabens
☐ Kelley
☐ Knight
☐ Larson
☐ McDuffie
☐ Nye
☐ Reilly
☐ Shaffer
☐ Zwillman
☐ Fredricey
☐ Patton

Planning

☐ LUTEY
☐ Beseke
☐ Fisher
☐ Kostka
☐ Marxen
☐ Southworth

☐ Hagert

☐ Regional Director

☐ Deputy Regl. Dir.

DIV. OF WETLAND MGMT. (Fergus Falls, MN)

☐ WALLACE

MID-CONTINENT W/F PROJ. (Fergus Falls, MN)

☐ MADSEN

☐ As Requested
☐ For Your Information
☐ Prepare Reply
☒ Action
 (PSW-631-84) Control Number
☐ Date Logged Out
☐ See Me
☐ Provide Comments
☐ File:

☒ Reply Requested by:

4/16/84
☐ MAIL ☐ THROW

COMMENTS:

Would appreciate Cal
 Gale's review of the
 prescribed buying portion
 of the attached annual
 land use plan.

J. Elhi
 John - OK -
 Cal

From:

J. Elhi, R.F.2

Date:

3/24/89

1984 LAND USE PLAN - UNION SLOUGH NWR

The provisions of the Land Use Plan approved by Region 3 on July 26, 1972 and annual amendments thereafter apply. This program provides for annual land use practices during 1984: cooperative farming, force account farming, haying, prescribed burning and seeding of native grasses.

Cooperative farming will consist of 30 acres in Farm Unit A-1. Ten acres of previous corn planted in 1983 will be worked and planted to soybeans. Ten acres of hay ground, idle since 1980, will be worked and planted to corn. An additional ten acres of previous corn will be worked and planted to oats/hay and pasture mix at a rate of 10 lbs./acre mix and 2 bushel oats/acre. Hay and pasture mix (Blend-MH) consists of 40% alfalfa, 30% medium red clover, 15% timothy and 15% alsike clover. One-third of the total crop (estimated at 10 acres) will be left unharvested as refuge share. Corn acreage will provide supplemental winter food for resident white-tailed deer and pheasant populations. Establishment of hay and pasture mix will provide future nesting cover for upland game and waterfowl.

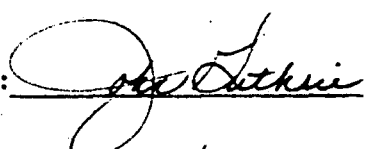
Force account planting will consist of planting three food plots (Units A-2, A-4 and A-6) totaling 27 acres to a corn/sorghum sudangrass mixture (9 acres), plowdown/oats mixture (9 acres) or fall plowing plowdown/oats mixture planted in 1983 and seeding to winter wheat. See attached map for food plot rotation. At only limited cost to the refuge, food plots help insure winter survival of refuge wildlife living amidst a winter barren and heavily agricultural community.

Grazing and haying will not be conducted in 1984. Future refuge programs may however require some haying as an upland management tool.

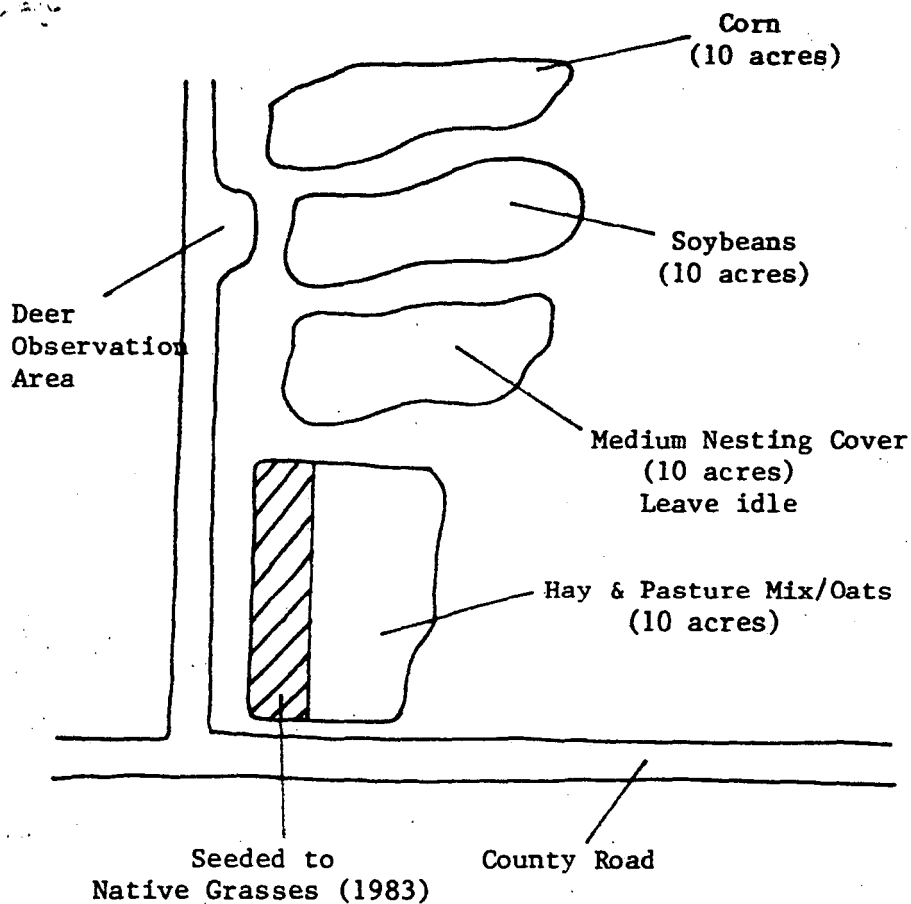
Low volatile 2-4D ester will again be applied, by the refuge's certified applicator, to selected areas of the refuge for Canada thistle control in accordance with state regulations.

The 1984 prescribed burning program will be conducted during latter April and early May on 4 separate blocks totaling 125 acres. Encroaching willow, buckbrush and plum thickets are main target species. Rejuvenation of existing but inhibited native grass stands is an equally important objective. Improving refuge nesting cover will benefit upland game and waterfowl common to the area during nesting season.

Force account farming, cooperative farming and planned prescribed burning activities are illustrated on the attached map.

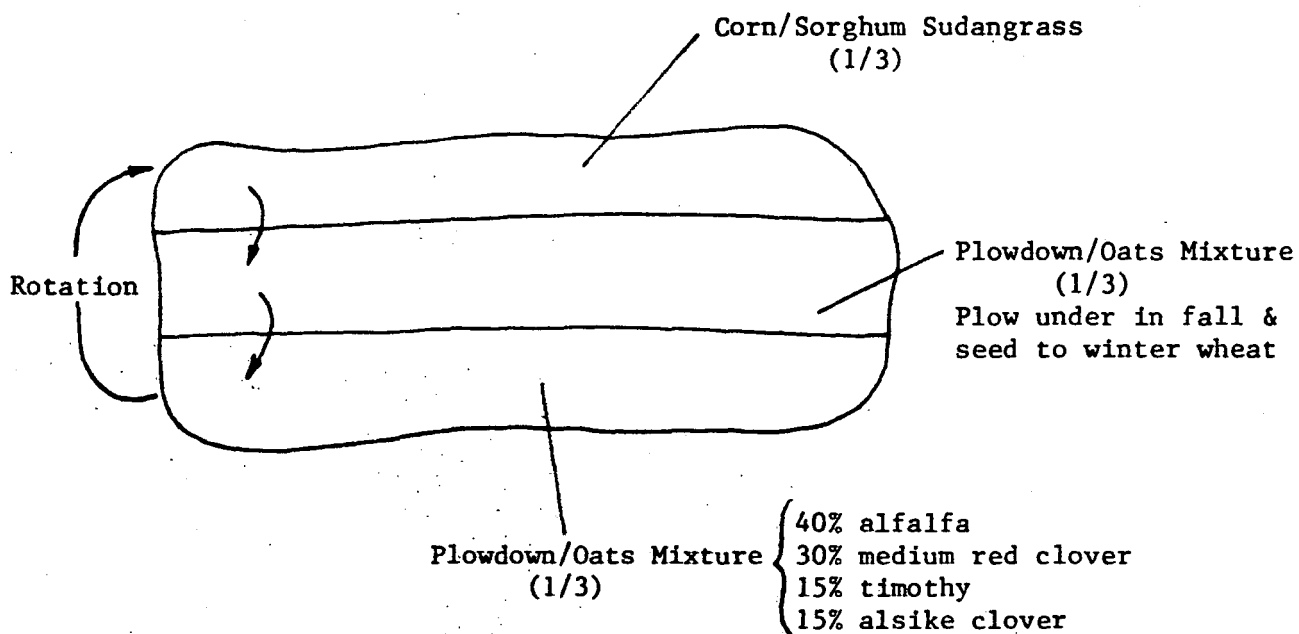
Submitted by: 

Date: 3/19/84



Refuge Cooperative Farming - Farm Unit A-1

Refuge Food Plot Rotation



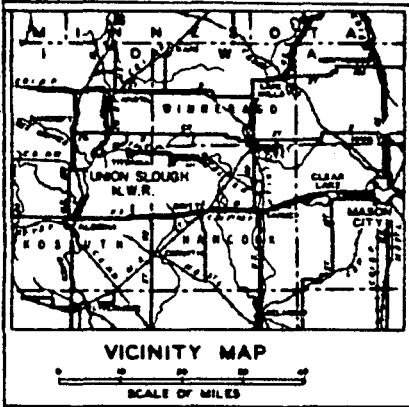
UNION SLOUGH NATIONAL WILDLIFE REFUGE

UNITED STATES
DEPARTMENT OF THE INTERIOR

KOSSUTH COUNTY, IOWA

UNITED STATES
FISH AND WILDLIFE SERVICE

R.28.W.

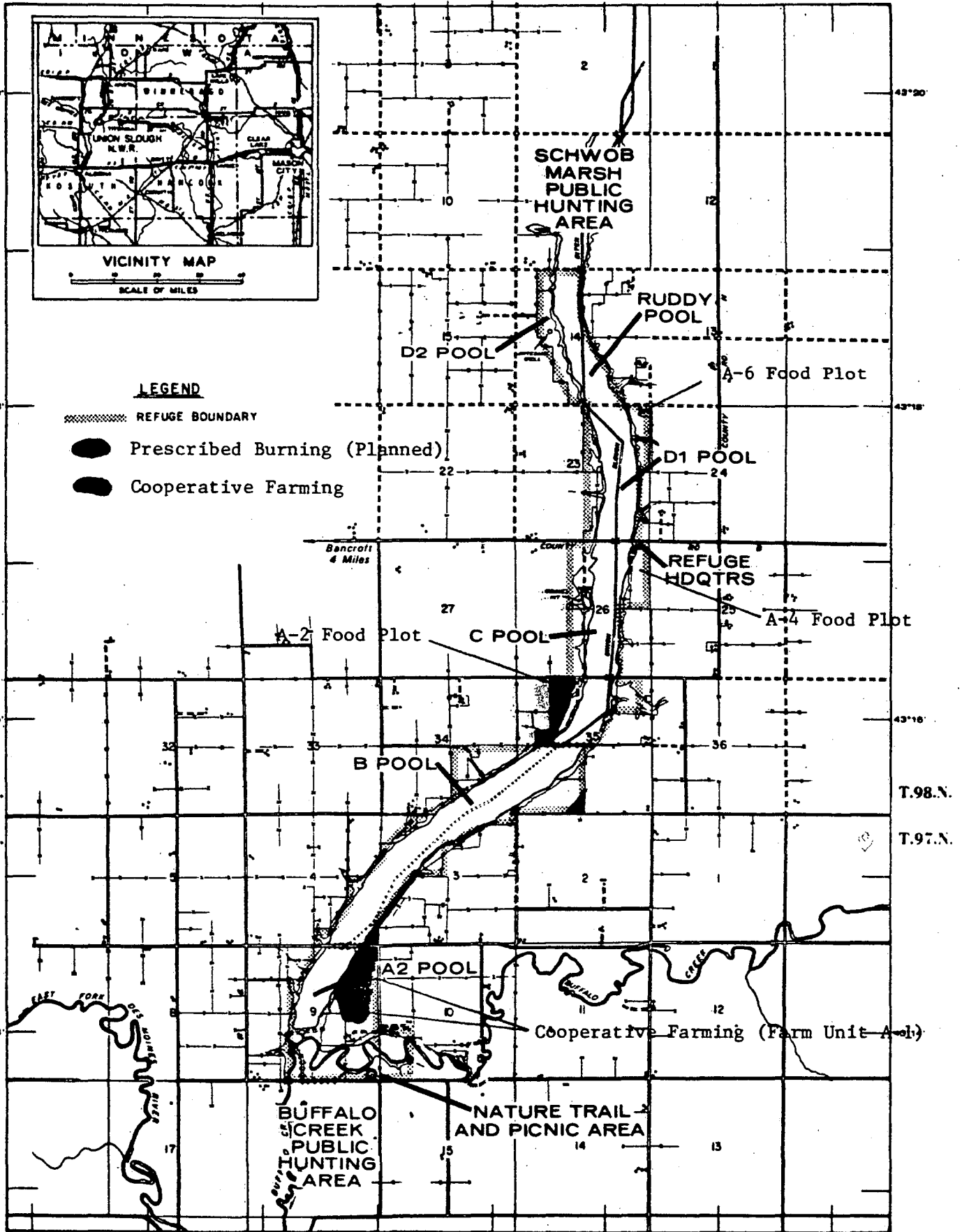


LEGEND

REFUGE BOUNDARY

Prescribed Burning (Planned)

Cooperative Farming



COMPILED IN SURVEYS AND MAPS
FROM SURVEYS BY USGS AND FWS

FIFTH PRINCIPAL MERIDIAN

0 1 2 3 4 MILES
0 1.609 3.218 4.827 6.436 KILOMETERS

DENVER, COLORADO
Revised March 1978

FEBRUARY, 1978

TRUE NORTH
MAGNETIC N
MEAN
DECLINATION
1975

6R IOWA 223 403