

PRIME HOOK NATIONAL WILDLIFE REFUGE
Milton, Delaware

ANNUAL FIRE MANAGEMENT PROGRAM FY 86

Submitted by: Paula D. Dely Date: 9-26-85
Refuge Manager

Reviewed by Anthony D. Legin Date: 1/8/86
Refuge Assistant - South

Approved by Edward S. Moses Date: 1/10/86
Refuge Supervisor - South

FY 86 ANNUAL FIRE MANAGEMENT PROGRAM
PRIME HOOK NATIONAL WILDLIFE REFUGE

A. Area Identification

If habitat conditions permit, prescribed burning will be used for management in eight areas totaling 1,685 acres:

- Area 1. 625 acres of phragmites, salt marsh grasses (predominately Spartina patens and Distichlis spicata), switchgrass and brush. The area is bounded on the north by County Road (CR) 224, the east by the Refuge boundary and sand dunes, the south by CR 199 and the west by Slaughter Canal and Area 2. The desired result - remove standing canes of phragmites and accumulated litter; kill or stress brush species encroaching on upland grasslands and marsh grasses; and remove litter in brush.
- Area 2. 270 acres of phragmites, brush (high tidebush), salt marsh grasses (predominately Spartina patens and Distichlis spicata) and switchgrass. The area is bounded on the north by CR 224, the east by Slaughter Canal, the south by Draper-Bennett Tax Ditch and the west by the Refuge boundary and private agricultural lands. The desired result - remove accumulated fuels and standing phragmites canes; kill or stress woody vegetation encroaching on salt marsh; and kill or stress brush species (myrtle) to set back succession and maintain edge habitat.
- Area 3. 250 acres of switchgrass, brush (high tidebush) and shrubs (myrtle). The area is bounded on the north by Draper-Bennett Tax Ditch and Area 2, the east by Slaughter Canal and Area 1 the south by CR 199 and Field 111 and the west by the Refuge boundary and private agricultural lands. The desired result - remove accumulated litter in switchgrass; kill or stress brush encroaching on switchgrasses and marsh grasses; and remove accumulated litter in dense brush.
- Area 5. 80 acres of brush, switchgrass and poison ivy. The area is edge and understory of woodlands. It is bounded on the north, east and south by wetlands and the west by upland croplands on the Refuge boundary. The desired results - remove brush, litter etc. from understory to maintain area for Delmarva Fox Squirrels.
- Area 6. 60 acres of brush and undergrowth and grasses. The area is edge and understory of woodlands. It is bounded on the north by wetlands and croplands, the east by croplands and marsh, the south by the Refuge boundary and the west by upland croplands. The desired results - remove litter, brush etc. from understory to maintain clearings for Delmarva Fox Squirrels.

- Area 7. 125 acres of switchgrass, marsh grasses (predominately Spartina patens and Distichlis spicata) and brush. The area is bounded on the north and east by marsh, the south by CR 16 and the west by upland croplands. The desired results - remove accumulation fuels and dead canes of phragmites; and kill or stress brush species encroaching on salt marsh.
- Area 8. 75 acres of marsh grasses (predominately Spartina patens and Distichlis spicata), brush and switchgrass. The area is bounded on the north by CR 16, the east by Petersfield Ditch and the south and west by ditches and the Refuge boundary. The desired results - kill or stress woody vegetation encroaching both on upland and marsh grasses; and kill or stress brush species to set back succession.
- Area 9. 200 acres of marsh grasses (predominately Spartina patens and Distichlis spicata), brush, switchgrass and phragmites. The area is bounded on the north by CR 16, the east by wetlands, the south by the Broadkill River and the west by Petersfield Ditch. The desired results - remove accumulated fuels; kill or stress brush encroaching on both marsh and upland grasses; and remove dead canes and duff from phragmites. Phragmites stalks should be burnt off at ground level.

B. Burning Plan

- Area 1. No firebreaks will be necessary here as both units will be burned at the same time. The burn will be conducted in March by personnel of the Memorial Fire Department, Inc., Slaughter Beach, Delaware - a volunteer company, with refuge personnel standing by. The fire company will supply flares or drip torches if desired. A minimum of 15 men and three pumper trucks will be required. The Memorial Fire Department has obtained permission from private landowners adjacent to the refuge to burn brush and phragmites on their property at the same time as the refuge burn is accomplished.

Cost - 3 man days of refuge staff. Estimate \$450 charges to 1260-229-00.

Ignition - Winds should be northeast or southeast. Given northeast winds, burnout will be along CR 224, while a southeast wind will require a burnout along CR 199. The main fire in Area 1 will be a head fire ignited along the eastern boundary of the refuge. For Area 2, the main fire will be set along the western boundary of the refuge and will back burn to Slaughter Canal.

Holding/Control - This will be obtained by burning out the perimeter of the burn area and allowing the fire to burn into the interior of the refuge. On the western side of Area 2, the burn will backburn into the interior of the refuge. County roads on the north and south of the burn area, Slaughter Canal in the center and backburns along the eastern and western boundaries will control (contain) the burn.

Mop up - Once the fire has burned into the interior of the refuge, it will offer few problems. Burning snags will be removed by refuge personnel, and refuge personnel will monitor the burn until all smoldering has stopped. Past burns have indicated that this occurs within 24 hours.

Area 3. The purpose of this burn will be to favor switchgrass, a warm season grass. The burn will be conducted in late April by the Memorial Fire Department. Firebreaks have been mowed in selected blocks to help contain the burn. No other firebreaks will be necessary. Two trucks and 10 firemen will be needed.

Cost - 2 man days of refuge staff. Estimate \$300 charged to 1260-229-00.

Ignition - Winds must be southwest, 5-10 mph. Ignition will be along CR 199 at Slaughter Canal and along CR 199 to Gum Woods. At Gum Woods firing will be along the edges of woods and croplands.

Holding/Control - Areas 1 and 2 to the north and east of Area 3 will be burned in March. These areas will contain the fire as will CR 199 and Slaughter Canal.

Mop up - Refuge personnel will standby until the fire is out - an estimated four hours. Any burning snags will be felled and extinguished.

Area 5. Firebreak construction will not be required as fire will be contained by agricultural lands and flooded woodlands. Permission to enter area must be secured from private landowner as refuge has no legal access. Refuge personnel will conduct the burn during February - April.

Cost - 2 man days. Estimate \$300 charged to 1260-229-00.

Ignition - Wind speed should not exceed 10 mph. Wind direction will not be critical, however a west wind may be best. A night burn may produce good results, if State permit will allow night burning. The burn will be ignited by flares and will start along the western edge of the uplands.

Holding/Control - Wetlands border the north, east and south boundary of Area 5. The fire will be ignited along the western edge of upland croplands and will be allowed to burn eastward. Wetlands will contain the fire.

Mop up - Burning snags will be felled and extinguished by the refuge personnel. The burn will also be monitored by refuge personnel until all smoldering has stopped - an estimated four hours.

Area 6. The purpose of this burn is to maintain clearings for Delmarva Fox Squirrels. Prior to burning, the firebreak along the southern boundary of the refuge should be maintained and any standing snags should be felled. Burning will occur in February - April. Refuge personnel will conduct the burn.

Cost - 3 man days. Estimate \$450 charged to 1260-229-00.

Ignition - Wind speed should not exceed 10 mph. Desired winds should be southwest, south or southeast to take smoke away from adjacent houses. A drip torch will be used to ignite the fire. Burnout along the northern portion of area then fire along the southern boundary.

Holding/Control - This will be obtained by burning the perimeter of the burn area and allowing the fire to burn into the interior. Burnout along the northern portion of the area, the firebreak on the southern boundary and the burning of the perimeter will contain the fire.

Mop up - Burning snags will be felled and extinguished by refuge personnel. The burn will also be monitored by refuge personnel until all smoldering has stopped. This should occur within 24 hours.

Area 7. This area will be burned by refuge personnel in February - April. Firebreaks will not be necessary. Fire will be contained by agricultural lands, major tidal ditches and CR 16. Burning here will seek to remove dead phragmites canes to permit sunlight to reach the marsh floor. The area has previously been treated with Rodeo to control Phragmites.

Cost - 2 man days. Estimate \$300 charged to 1260-229-00.

Ignition - The marsh water level should be drawn down to dry the soils and duff. Wind speed should not exceed 10 mph to provide a good burn. Wind direction should be from the southeast. A drip torch will be used to ignite the burn. A burn along CR 16 will be first then along Petersfield Ditch. Finally along the edge of the agricultural fields.

Holding/Control - The area is bounded by marsh on the north and east, the south by CR 16 and the west by upland croplands. These areas will serve as firebreaks and will contain the fire.

Mop up - Refuge personnel will standby until the fire is out - and estimated four hours.

Area 8. A firebreak must be mowed along our common boundary with the Graves Farm and a wider break along the hunting cabin. Permission to cross the Graves Farm will be needed both to build the break and to enter to conduct the burn. Refuge personnel will conduct the burn in February - April.

Cost - 2 man days. Estimate \$300 charged to 1260-229-00.

Ignition - Winds should not exceed 10 mph. Wind direction should be northeast or northwest. Fuel, litter and marsh should be as dry as possible. Do not burn if high tides are expected. Drip torches will be used to start the burn. A backfire along the edge of Graves Farm will be started first then contained along CR 16. The fire will carry across the area.

Holding/Control - The fire will be contained by CR 16 on the north, Petersfield Ditch on the east and unnamed tidal ditches on the west and south boundaries.

Mop up - Refuge personnel will monitor the fire until it has burned itself out.

Area 9. This area will be burned by refuge personnel in February or March. Firebreaks will not be necessary. The fire will be contained by CR 16, tidal ditches and the Broadkill River. Burning here will seek to remove dead phragmites canes to permit sunlight to reach the marsh floor.

Cost - 2 man days. Estimated \$300 charged to 1260-229-00.

Ignition - Winds should not exceed 10 mph. Wind direction should be southeast or south to keep smoke from drifting across CR 16. Marsh water levels should be low. A backfire will be ignited along CR 16 by refuge personnel using drip torches. Five refuge personnel will be present including Bombay Hook's Fire Management Officer. Firing will also be along the Island Farm Road and Petersfield Ditch.

Holding/Control - The tidal ditches, Broadkill River, upland croplands and CR 16 will contain the fire.

Mop up - Refuge personnel will monitor the fire until it has burned itself out. Any snags will be felled and extinguished.

Summary

In addition, 10 man days will be used for firebreaks along CR 16 and CR 39 west of Prime Hook Beach.

| <u>Area</u> | <u>Cost</u> | <u>Man Day</u> | <u>Activity</u> | <u>Additional Equipment Needed</u> |
|-------------|-------------|----------------|-----------------|------------------------------------|
| 1 | \$225 | 1.5 | 1260 | None |
| 2 | 225 | 1.5 | 1260 | None |
| 3 | 300 | 2.0 | 1260 | None |
| 5 | 300 | 2.0 | 1260 | None |
| 6 | 450 | 3.0 | 1260 | 2 drip torches |
| 7 | 300 | 2.0 | 1260 | 2 drip torches |
| 8 | 300 | 2.0 | 1260 | 2 drip torches |
| 9 | 300 | 2.0 | 1260 | 2 drip torches |

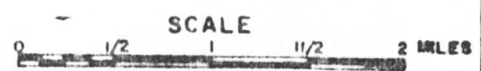
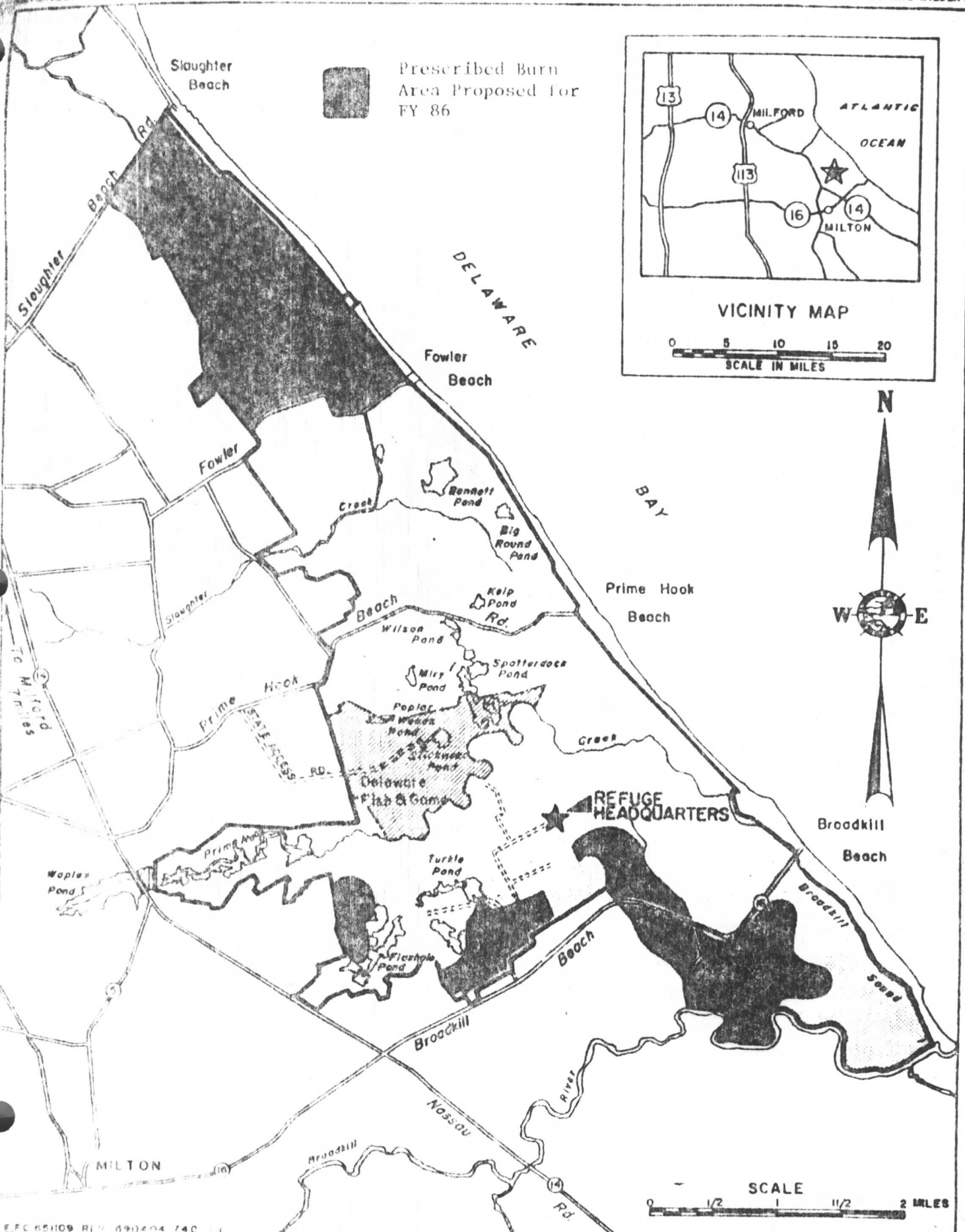
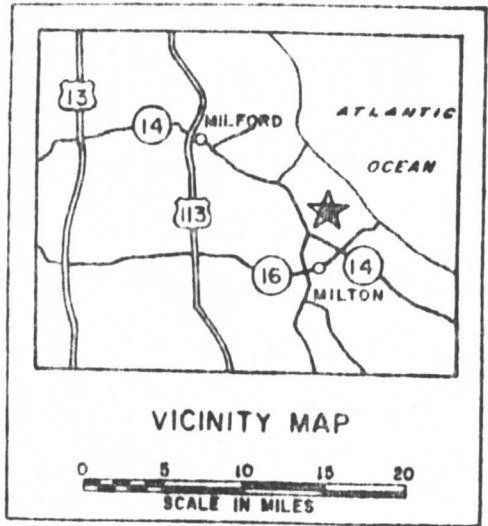
PRIME HOOK NATIONAL WILDLIFE REFUGE
SUSSEX COUNTY, DELAWARE

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE

UNITED STATES
DEPARTMENT OF THE INTERIOR



Prescribed Burn
Area Proposed for
FY 86



QUESTIONNAIRE

9,000 G.V.W. 4X4 Pickup with 8 feet body.

Engine: Gas X Diesel

Transmission: 4 Speed ma. Auto. X

Front hub: manually Auto. X

Tires: Bias ply Radial ply X

Wide base

Battery: One X Two

Fuel Capacity: 18 gallon 30 gallon X

Front winch: elec. X P.T.O.

Trailer towing package: YES

Front brush guard: YES

Special traction axles: Front X Rear X

Outside mirrors: West coast Below eye X

Back-up alarm

AM radio YES

Air conditioning YES

Roll Bar YES

Number of unit in the next year Truck only Compl. units 1
(Fire package)

Water tank 75 gal. 100 gal. 125 gal. X 150 gal.

Pump capacity 100 G.P.M.

Pump press: 100 psi

Type of pump: PD X Centrifugal

Hose reel Capacity: 200 feet of 1 inch hose

Foam Equipment: N/A eductor build in type

QUESTIONNAIRE

9,000 G.V.W. 4X4 Pickup with 8 feet body.

Engine: Gas X Diesel

Transmission: 4 Speed ma. Auto. X

Front hub: manually X Auto.

Tires: Bias ply Radial ply X

Wide base

Battery: One X Two

Fuel Capacity: 18 gallon X 30 gallon

Front winch: elec. X P.T.O.

Trailer towing package: NO

Front brush guard: NO

Special traction axles: Front X Rear X

Outside mirrors: West coast X Below eye

Back-up alarm

AM radio YES

Air conditioning YES

Roll Bar YES

Number of unit in the next year Truck only Compl. units 1
(Fire package)

Water tank 75 gal. 100 gal. 125 gal. 150 gal. X

Pump capacity 100 G.P.M.

Pump press: 60 psi

Type of pump: PD X Centrifugal

Hose reel Capacity: 200 feet of 1 inch hose

Foam Equipment: N/A eductor build in type

UNITED STATES GOVERNMENT

memorandum

MANAGER ADD

ASST. MGR.-B.H. _____

✓ ASST. MGR.-B.H. _____

ASST. MGR.-P.H. X

U.S. FISH AND WILDLIFE SERVICE

CLERK _____

BIO. TECH. _____

ONE GATEWAY CENTER

FOREMAN _____

SUITE 700

STAFF _____

NEWTON CORNER, MASSACHUSETTS 02158

TO: All Refuge Managers

FROM: Asst. Regional Director
Wildlife Resources

DATE: ~~FIVE~~ 25 1984

SUBJECT: Fire Equipment Standardization Questionnaire

Attached are instructions and forms regarding the above subject.

Please submit these forms directly to the address on the 2nd page of the attached memo, with a copy to this office, Attn: Regional Fire Management Coordinator.

Attachments

Signature

JUN 28 1984

PRINCE GEORGE REFUGE



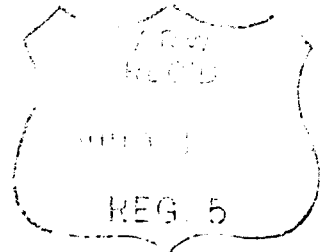
United States Department of the Interior

FISH AND WILDLIFE SERVICE
WASHINGTON, D.C. 20240

WR

JUN 15 1984

JUN 12 1984



ADDRESS ONLY THE DIRECTOR,
FISH AND WILDLIFE SERVICE

REGIONAL DIRECTOR'S
OFFICE

Memorandum

To: Regional Director, Regions 1, 2, 3, 4, 5, 6, and 7
Acting Associate
From: Director
Subject: Fire Equipment Standardization Questionnaire

At the National Wildfire Suppression Equipment Conference (NWSEC) held last November, an interagency group was delegated to study the motor vehicle equipment needs of the participating agencies. Through this study, it was hoped a set of standards for wildfire suppression equipment could be developed so that the agencies, when procuring new or replacement units or parts, could:

1. Save money through quantity orders
2. Be assured that the item is what the field needs
3. Save time and money through eliminating returns, exchanges, retro-fitting, etc.

As a necessary part of this study, Mr. Donald L. Cross of the National Park Service was given the responsibility of developing a questionnaire to be sent to the agencies' field stations so that the project leaders would have input into the "fire truck" standards. Attached then is his questionnaire consisting of three sheets, one for each of the following size classes:

1. 9,000 GVW pickup, 4x4 with 8-foot body
2. 13,700 GVW truck, 4x4 chassis and cab with utility body
3. 27,000 GVW truck, 4x4 chassis and cab

This questionnaire is not intended to be all-inclusive since it is obvious there are other truck sizes and designs which are available and may be of more use in certain circumstances and terrain. However, it is a beginning, and it is an attempt to determine requirements which may be common to the several agencies involved. If the project leaders have in mind other sizes and designs that they feel would be better, please have them write the specifications in the same format as the questionnaire and these will be forwarded to the National Park Service.

Please have copies of the questionnaire sent to those field stations having or needing wildfire suppression equipment and have those stations return their response by ~~July 9, 1984~~. Their responses should be sent to the attention of Chief, Branch of Fire Management, Division of Refuge Management, Fish and Wildlife Service, 3905 Vista Avenue, Boise, ID 83705. Instructions for completing the forms are included with the attachment.

Walter R McAllister

Attachments .

INSTRUCTIONS

Wildfire Suppression Equipment
Standardization Project
Questionnaire

Please fill in the blanks in the following format:

Engines: Mark preference with "x" and indicate size (CID or HP or both).

Transmission: Mark preference with an "x".

Front hub: " " " " " .

Tires: " " " " " .

Battery: " " " " " .

Fuel capacity: " " " " " .

Front winch " " " " " .

Trailer towing

Package: Indicate with "yes" or "no".

Front brush

Guard: " " " " " .

Special traction

Axles: Mark preference with an "x".

Outside mirrors: " " " " " .

Back-up alarm: Required; no response necessary.

AM radio: Indicate with "yes" or "no".

Air conditioning: " " " " " .

Roll bar: " " " " " .

Number of units in the next year: Indicate anticipated needs, regardless of possibility of acquiring units.

Water tanks: Mark preference with an "x".

Pump capacity: Self-explanatory

Pump pressure: " "

Type of pumps: Mark preference with an "x".

Hose reel: Self-explanatory

Foam equipment: If foam equipment is considered desirable as a standard item, fill in preferred information.

QUESTIONNAIRE - Continued

13,700 G.V.W 4X4 chassis and cab with Utility Body.

Engine: Gas _____ Diesel _____

Transmission: 4 Speed manual _____ Auto _____

Front hub: Manually _____ Auto _____

Tires: Bias ply _____ Radial ply _____ Dual Rear _____

Singe wide base rear _____

Battery: One _____ Two _____

Fuel capacity: 18 gal. _____ 30 gal. _____

Front winch: Elec. _____ P.T.O _____

Trailer towing package: _____ Type _____

Front brush guard: _____

Special traction axles: Front _____ Rear _____

Outside mirrors: West coast _____ Below eye _____

Back-up alarm _____

Roll bar _____

Utility Body: fiberglass _____ Alum _____ Steel _____

Number of unit in next year: Truck only _____ Compl. units _____

(Fire package)

Water tank fg _____ steel _____ 200 gal. _____ 225 gal. _____ 250 gal. _____

Pump Capacity _____ G.P.M Pump press _____ psi.

Type of pump PD. _____ Centrifugal _____

Hose reel Capacity _____ feet of _____ inch hose.

Foam Equipment _____ eductor _____ build in type

_____ west

QUESTIONNAIRE - Continued

27,000 G.V.W. 4X4 chassis and cab.

Engine: Gas _____ Diesel _____

Transmission: 5 Speed ma _____ Auto. _____

Tires: Bias ply _____ Radial ply _____ Dual rear _____
Single wide base rear _____

Fuel capacity: 50 gal. _____ 100 gal. _____

Winch: Front _____ Rear _____

Trailer towing package: _____

Front brush guard: _____

Special traction axles: front _____ Rear _____

Back-up alarm _____ AM Radio _____ Air conditioning _____

Roll bar _____

Hood and front fender Steel _____ Fiberglass _____

Seat (driver and passenger) Air suspension type _____

Crew Cab: _____

Body: Unity _____ Stake _____ other _____

Number of units in next year: Truck only _____ Compl. units _____

Fire package:

Water tank 500 gal. _____ 800 gal. _____

Pump Capacity _____ G.M.P. Press _____ psi

Type P.T.O. _____ Engine Driver _____

Hose reel One _____ Two _____ feet of _____ inch hose.

Foam Equipment eductor _____ built in type _____ WEST

memorandum

DATE: October 21, 1986

REPLY TO
ATTN OF: Refuge Manager Bombay Hook/Prime Hook National Wildlife Refuges

SUBJECT: Fire Management Program Scheduling

to: Regional Director, Region 5
Newton Corner, MA (AWR) ATTN: Pete Suich

Attached are the Bombay Hook and Prime Hook Fire Management Program Scheduling Forms and revised dispatch plans. Please note on the Bombay Hook Fire Equipment sheet that the side mower for the tractor (\$6,000, FY-89) was purchased during FY-86. If possible we would like to substitute a portable pump for use in water craft (approximately \$3,000), a trailer for the portable pumper (\$3,000), and a mobile radio (\$1,400). The portable pumper would be planned for FY-89, the radio for FY-87 and the trailer for FY-87.

The Program Schedule for Prime Hook reflects a change in FY-87 for fire break construction. In FY-87 and subsequent years these costs will be charged to 1510 - Emergency pre-suppression, rather than to 1260 as in the past. The fire breaks are constructed annually during the recognized fire season - November to April. Costs for prescribed fires will continue to be charged to 1260; however, some of the prescriptions are written to remove accumulated fuels and thus could potentially be charged to 1510.

Acquisition of two new radios for Prime Hook have been moved up from FY-89 to FY-88 to permit communication during fire emergencies (radios will be on local frequency).

Paul D. Daly



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

| Element (unit) | 1260 Fire Program | | | | | | | | 1510 Emergency Presuppression | | | | | | | |
|-----------------------|-------------------|--------------|-------------|--------------|-----------|--------------|-------------|--------------|-------------------------------|--------------|-------------|--------------|-----------|--------------|-------------|--------------|
| | FY86 | | FY87 | | FY88 | | FY89 | | FY86 | | FY87 | | FY88 | | FY89 | |
| | Past Year | Current Year | Budget Year | Program Year | Past Year | Current Year | Budget Year | Program Year | Past Year | Current Year | Budget Year | Program Year | Past Year | Current Year | Budget Year | Program Year |
| | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit |
| Training | | | | | | | | | | | | | | | | |
| FWS Basic (trainee) | | | | | | | | | | | | | | | | |
| S-Courses (trainee) | | | 0.6 | 1 | 0.6 | 1 | | | | | | | | | | |
| I-Courses (trainee) | | | | | | | | | | | | | | | | |
| Other (trainee) | | | 0.3 | 1 | | | | | | | | | | | | |
| SUBTOTAL | | | 0.9 | 2 | 0.6 | 1 | | | | | | | | | | |
| Contracts | | | | | | | | | | | | | | | | |
| Presuppression | | | | | | | | | | | | | | | | |
| Suppression | | | | | | | | | | | | | | | | |
| SUBTOTAL | | | | | | | | | | | | | | | | |
| FM | | | | | | | | | | | | | | | | |
| Fire breaks (MI) | 1.5 | 1.5 | | | | | | | | | | | | | | |
| Fire roads (MI) | | | | | | | | | | 1.0 | 3.0 | 1.0 | 3.0 | 1.0 | 3.0 | |
| Pres. fire (acres) | 0.4 | 185 | 0.5 | 1500 | 0.5 | 1500 | 0.5 | 1500 | | | | | | | | |
| Fire cache (N/A) | | | | | | | | | | | | | | | | |
| US supplies (N/A) | | | | | | | | | | | | | | | | |
| Eqpt. Maintenance | 3.5 | | | | | | | 0.8 | | 0.8 | | 0.8 | | 0.8 | | |
| | | | | | | | | | | 2.5 | | 2.5 | | 2.5 | | |
| SUBTOTAL COSTS | | X | | X | | X | | X | | X | | X | | X | | X |
| TOTAL COSTS | 5.4 | X | 0.5 | X | 0.5 | X | 0.5 | X | 0.8 | X | 4.3 | X | 4.3 | X | 4.3 | X |

| Element (unit) | 1260 Fire Program | | | | | | | | 1510 Emergency Presuppression | | | | | | | |
|----------------------------------|-------------------|------|----------------------|------|---------------------|------|----------------------|------|-------------------------------|------|----------------------|------|---------------------|------|----------------------|------|
| | FY86 Past Year | | FY87 Current Year | | FY88 Budget Year | | FY89 Program Year | | FY86 Past Year | | FY87 Current Year | | FY88 Budget Year | | FY89 Program Year | |
| | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit | \$000 | Unit |
| Staffing | | | | | | | | | | | | | | | | |
| Fire Management Positions (FTEs) | | | | | | | | | | | | | | | | |
| Other positions (FTEs) | 1.1 | 0.1 | 3.0 | 0.3 | 3.0 | 0.3 | 3.0 | 0.3 | | | | | | | | |
| SUBTOTAL | 1.1 | 0.1 | 3.0 | 0.3 | 3.0 | 0.3 | 3.0 | 0.3 | | | 1.5 | 0.2 | 1.5 | 0.2 | 1.5 | 0.2 |
| Equipment | | | | | | | | | | | 1.5 | 0.2 | 1.5 | 0.2 | 1.5 | 0.2 |
| Tractor, track (ea) | | | | | | | | | | | | | | | | |
| Radio (ea) | | | | | | | | | | | | | | | | |
| Fire plow (ea) | | | | | | | | | | | | | 4.5 | 2 | | |
| Truck, 4X4 (ea) | | | | | | | | | | | | | | | | |
| Slip-on pumper (ea) | | | | | | | | | | | | | | | | |
| Engine (ea) | | | | | | | | | | | | | | | | |
| Portable pump (ea) | | | | | | | | | | | | | | | | |
| TRUCK - 2 TON with TILT Bed | | | | | | | | | | | | | | | | |
| Chain saw(s) | | | | | | | | | | | 20.0 | 1 | | | | |
| | | | | | | | | | | | | | | | 0.8 | 2 |
| SUBTOTAL COSTS | | X | | X | | X | | X | | X | 20.1 | X | 4.5 | X | 0.8 | X |

PRIME HOOK NATIONAL WILDLIFE REFUGE

FIRE DISPATCH PLAN

Most fires will be directly reported to the Fire Department Call Board.

When a report of fire or smoke is received get as much information from the caller as possible:

Location of fire
 Location of caller
 Name and telephone number of caller
 Color of smoke
 Size of fire
 Winds in fire area
 Character of fire - running, smoldering, etc.
 Type of fuels burning
 Did they see anyone in the vicinity or any vehicles leaving the area?

1. Check map location and determine status.
2. Call Sussex County Fire Department Call Board 911. Give them exact location of fire and name and number of reporting party.
3. Notify Assistant Refuge Manager.
4. Notify Otis Clifton (M-11); Refuge Fire Officer.
5. Notify Project Leader.
6. Maintain log of all radio and telephone communications.
7. Remain on duty until fire is out or cleared to leave by Refuge Fire Officer or Assistant Refuge Manager.
8. If aerial reconnaissance is necessary or desired, the only OAS qualified pilot is Reynolds Jones.

Cessna 185
 \$72/hour
 653-8314
 Smyrna, De

9. Equipment available at Prime Hook:
 1. Pickup truck, 4x4 (1)
 2. Pickup truck, 4x2 (1)
 3. Station wagon, 6-passenger (1)
 4. 100 gallon Agrotec spray tank - 5 h.p. Briggs and Stratton motor (1)
 5. 150 gallon slip-on pumper - 11 h.p. motor (1)
 6. Drip torches (2)
 7. Massey Ferguson 1085 including front-end loader and back blade (1)

8. John Deere 3010 including back blade and stone rake (1)
 9. International 284 including rotary mower (1)
 10. Universal Go-Tract/Marsh Mower with trailer (1)
 11. 14' Airboat - 150 h.p. Lycoming motor (1)
 12. 16' Airboat - 455 cub. in. Buick motor (1)
 13. 14' Polar Craft - 6 h.p. Johnson motor (1)
 14. 14' Polar Craft - 7½ h.p. Johnson motor (1)
 15. 15' Canoe (1)
 16. Portable radios (3)
 17. Mobile radios - all vehicles contain a mobile radio (3)
 18. Radio base station (1)
 19. Hand tools - variety including shovels, spades, swedish axes, McLeods, flappers, hand saws and rakes
 20. Fire resistant clothing - nomex flight coveralls (8); nomex fire resistant shirts (3); nomex fire resistant pants (3)
10. Equipment and support available from Milton Volunteer Fire Company:
1. Fire truck, 750 gallon pump 750 gals./min.
 2. Fire truck, 1000 gallon pump 750 gals./min.
 3. Fire truck, 1000 gallon pump 1200 gals./min.
 4. Fire truck, 1250 gallon pump 500 gals./min.
 5. Fire truck, 1200 gallon pump 500 gals./min.
 6. Command post/Rescue truck, 5 ton
 7. Jeep, 4x4 with portable 55 gallon pumper
 8. Jeep, utility
 9. Boat, 17'6" Boston Whaler
 10. Boat, 12" aluminum

Personnel

25 active support personnel

11. Delaware State Police Equipment:

Ranger helicopter with 150 gallon water bucket

12. Delaware State Forestry Division:

Tractor and Fire Plow

DIRECTORYREFUGE PERSONNEL

| <u>REFUGE PERSONNEL</u> | <u>TITLE</u> | <u>HOME PHONE</u> |
|-------------------------|--------------------------|-------------------|
| Paul D. Daly | Refuge Manager | (301) 479-3854 |
| George F. O'Shea | Asst. Refuge Manager | (302) 684-0220 |
| Sylvia R. Pelizza | Asst. Refuge Manager | (302) 653-8899 |
| Otis J. Clifton | Heavy Equipment Operator | (302) 684-4510 |
| G. David Windsor | Maintenanceman | (302) 645-2620 |
| Louise G. Kotarba | Clerk - Typist | (302) 945-8970 |

REGIONAL OFFICE CONTACTS

| <u>REGIONAL OFFICE CONTACTS</u> | <u>TITLE</u> | <u>HOME PHONE</u> |
|---------------------------------|----------------------------|-------------------|
| Peter Suich | Regional Fire Mgmt. Coord. | (603) 382-6009 |
| Edward Moses | Refuge Supervisor, South | (603) 382-5284 |

WASHINGTON OFFICE CONTACT

| <u>WASHINGTON OFFICE CONTACT</u> | <u>OFFICE</u> | <u>OFFICE PHONE</u> |
|----------------------------------|---|---------------------|
| Ralph Town | Div. of Refuges - Branch of Resource Mgmt. | (202) 343-4306 |

BOISE INTERAGENCY CONTACTS

| <u>BOISE INTERAGENCY CONTACTS</u> | <u>OFFICE PHONE</u> | <u>HOME PHONE</u> |
|-----------------------------------|---------------------|-------------------|
| Frank Cole | (208) 554-9561 | (208) 336-1219 |
| Walter Okamoto - Fire Mgmt Spec. | 554-9651 (FTS) | |
| | (208) 334-9561 | |

BIFC LOGISTICS SUPPORT

554-9401 (FTS)
(208) 334-9401

BOMBAY HOOK NATIONAL WILDLIFE REFUGE

487-6237 (FTS)
(302) 653-9345

REGIONAL OFFICE - ARD

829-9222 (FTS)
(617) 965-5100

FIRE, POLICE, AMBULANCE/EMERGENCY UNITS

911

HOSPITALSOFFICE PHONEHOME PHONE

| | | |
|--------------------------------|----------------|--|
| Beebe Hospital - Lewes, DE | (302) 645-3291 | |
| Milford Hospital - Milford, DE | (302) 422-3311 | |

STATE FORESTRY

| | | |
|---------------------|----------------|--|
| Redden State Forest | (302) 856-2893 | |
|---------------------|----------------|--|

STATE FISH AND GAME

| | | |
|--------------------------------|----------------|----------------|
| Lloyd Alexander | (302) 734-4431 | (302) 697-2879 |
| (If fire is on Prime Hook WMA) | | |

MOSQUITO CONTROL

| |
|----------------|
| (302) 422-4539 |
|----------------|

(For additional tracked vehicle)