

MAINE STATE LEGISLATURE

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FOREST INSECT MANAGER REPORT

For Calendar Year 1981

This report is prepared under the authorization of the Spruce Budworm Management Act of 1981, Title 12, MRSA Chapter 803, Sub-Chapter IV-A and has been prepared for the Second session of the 110th Legislature.

Maine Forest Service

DEPARTMENT OF CONSERVATION

January, 1982

FOREST INSECT MANAGER REPORT

For Calendar Year 1981

The Forest Insect Manager Report is required by the Spruce Budworm Management Act, Title 12, MRSA Chapter 803, Sub-Chapter IV-A, to "undertake a complete financial review of any management program activities."

Table 1 summarizes financial support for the 1981 Spruce Budworm Management Program. The State's General Fund, federal funds from the USDA Forest Service and money derived from an excise tax on landowners were the sources of funds for the 1982 program. General Fund revenues were only used in support of research projects, the Spruce Budworm Small Woodlot Management Program and Spruce-Fir Wood Supply/Demand Analysis. Federal funds supported 28% of the cost of the spray project, including human health and environmental monitoring. Federal funds also helped support the Small Woodlot Management Program and the Spruce-Fir Wood Supply/Demand Analysis. In addition, there were charges for spray services to landowners who were not assessed the excise tax (Baxter State Park, Maine Bureau of Public Lands and Scott Paper Company).

The automatic and silvicultural withdrawal provisions of the 1976 Spruce Budworm Management Act (amended) provided authorization and procedures for landowners to exempt lands within the SFPD from the excise tax. This program has been in effect since 1976 and has resulted in 2,625,248 acres so designated at the end of 1981. Table 2 lists the taxable acres and acres withdrawn through 1981. The new Maine Spruce Budworm Management Act (effective October 1, 1981) eliminated a fixed SFPD and made participation in the program voluntary, thus automatic and silvicultural withdrawal procedures are no longer necessary.

The current law provides for the assessment of pre-project and post-project taxes. The pre-project tax provides the necessary working capital to conduct the

spray program. The post-project tax allows for additional assessments and/or rebates; to adjust for (1) any difference in budgeted and actual project costs, (2) receipt of federal cost sharing funds and, (3) a final accounting of acres treated. The latter adjustment is required because of the new two-tiered tax policy which provides that 90% of the project cost be paid by the spray tax and 10% of the cost by the shared tax. Table 4 summarizes these tax revenues by county and source.

Total expenditures for the 1981 spray project were \$7,200,000 of which the federal government paid \$2,024,452. The non-federal share was funded through a landowner excise tax of \$4.41 per acre sprayed. In addition all landowners within the SFPD paid \$0.0675 per acre for mixed wood and \$0.135 per acre for soft wood as a shared tax.

A summary of the operational costs for the 1981 spray project grouped into nine components is shown in Table 5 and cost trends over several years are presented in Table 6.

Research expenditures have generally averaged \$100,000 per year, as can be seen in Table 7.

A complete report of program planning, operations, and results, as well as details of on-going projects such as Research, Environmental/Health Monitoring and the Small Woodlot Management Program will be published in a separate report. The report entitled, Spruce Budworm in Maine, the 1981 Cooperative Spruce Budworm Suppression Project can be obtained by contacting the Maine Forest Service, State House Station # 22, Augusta, Maine 04333. Telephone 289-2791.

TABLE 1

SUMMARY OF APPROPRIATIONS, INCOME &
EXPENDITURES FOR 1981 C.Y. SPRUCE BUDWORM PROGRAM

	General Fund (1505.4)	Federal Fund (3505.4)	State Ded. Funds (4505.4)	TOTAL
Resources Available 1/1/81	\$423,289	\$161,228	\$317,542	\$902,059
Appropriation			143,342*	143,342
Balance	\$423,289	\$161,228	\$460,884	\$1,045,401
Income				
Federal Grant		2,254,071		2,254,071
Excise Tax			5,801,985	5,801,985
Miscellaneous			29,638	29,638
Cash Transfer		(1,600,000)	1,600,000	
Balance	\$423,289	\$815,299	\$7,892,507	\$9,131,095
Expenditures	265,256	577,940	6,895,693	7,738,889
Outstanding Encumbrances	82,743	55,000	173,779	311,522
Sub Total	\$75,290	\$182,359	\$823,035	\$1,080,684
Funds Remaining Available for Transfer to Taxation for Refunds			626,437	626,437
Total Abatements to be Rebated			66,899	66,899
Balance 12/31/81	\$75,290	\$182,359	\$129,699	\$387,348

* General Fund appropriation transferred to Dedicated Revenue (LD 1583)

TABLE 2

SUMMARY OF TAXABLE AND WITHDRAWN ACRES IN THE

SPRUCE FIR PROTECTION DISTRICT - 1981

(From Bureau of Taxation - 3/27/81)

	Taxable Acres in Organized Towns	Taxable Acres in Unorganized Towns	Acres Withdrawn *	Total Taxable Acres
Aroostook	348,358	1,391,676	751,945	1,740,034
Softwood	186,807	988,724		1,175,531
Mixedwood	161,551	402,952		564,503
Franklin	27,342	14,866	91,134	42,208
Softwood	7,986	3,796		11,782
Mixedwood	19,356	11,070		30,426
Hancock	63,317	107,411	84,377	107,728
Softwood	29,784	61,368		91,152
Mixedwood	33,533	46,043		79,576
Penobscot	186,492	284,615	439,508	471,107
Softwood	111,848	149,442		261,290
Mixedwood	74,644	135,173		209,817
Piscataquis	66,872	859,917	556,338	926,789
Softwood	29,953	617,451		647,404
Mixedwood	36,919	242,466		279,385
Somerset	95,160	894,504	260,520	989,664
Softwood	41,501	548,978		590,479
Mixedwood	53,659	345,526		399,185
Washington	103,588	170,948	441,426	274,536
Softwood	53,522	112,564		116,086
Mixedwood	50,066	58,384		108,450
TOTAL S.F.P.D.	891,129	3,723,937	2,625,248	4,615,066
Softwood	461,401	2,482,323		2,943,724
Mixedwood	429,728	1,241,614		1,671,342

* acres withdrawn under the 1976 Spruce Budworm Management Act

TABLE 3

SUMMARY OF EXCISE TAX REVENUES
FOR THE 1981 SPRUCE BUDWORM SPRAY PROJECT

(From Bureau of Taxation)

	Total Pre-Project Tax	Post-Project Shared Tax	Post-Project Spray Tax	Total Post-Project Tax
Aroostook	2,113,784	196,432	1,903,953	2,100,385
Franklin	39,143	3,644	16,958	20,602
Hancock	189,863	17,677	7,094	24,771
Penobscot	530,987	49,607	249,657	299,264
Piscataquis	1,141,290	106,540	1,089,923	1,196,463
Somerset	1,145,604	107,876	1,289,151	1,397,027
Washington	319,408	29,738	35,769	65,507
STATE (SFPD) TOTAL	5,480,079	*511,513	*4,592,506	5,104,019

*Error due to rounding off figures

TABLE 4

SUMMARY OF EXPENDITURES BY OPERATIONAL COMPONENT - 1981

(In thousands of dollars)

Aircraft	2,171
Insecticide	2,741
Fuel Oil	71
Mixing & Loading	408
Security	124
Food & Lodging	272
Temporary Labor	965
Environmental/Health Monitoring	152
*Miscellaneous	<u>296</u>
	7,200

*includes Travel, Communications

TOTAL ACRES TREATED 1,172,692

TABLE 5

COST TRENDS/ACRE FOR SPRUCE

BUDWORM SPRAY PROJECT FROM 1976-1981 1/

	1976	1977	1978	1979	1980	1981
Aircraft	\$.68	\$.98	\$1.01	\$1.29	\$2.59	\$1.85
Insecticide	1.59	1.70	1.86	1.99	2.33	2.34
Fuel Oil (Carrier)	.02	.02	.02	.04	.04	.06
Food & Lodging	.01	.08	.07	.07	.17	.23
Temporary Labor	.01	.12	.05	.19	.30	.82
Environmental/ Health Monitoring	--	.05	.04	.06	.16	.13
Mixing & Loading	.09	.14	.14	.08	.31	.35
Miscellaneous <u>2/</u>	.02	.12	.09	.16	.19	.36
TOTAL	\$2.43	\$3.21.	\$3.28	\$3.87	\$6.09	\$6.14

1/ Cost components have experienced some changes in definition over time, causing some variation in cost.

2/ Includes security, travel & communications

TABLE 6

RESEARCH EXPENDITURES, 1973--1982

	<u>Authorization</u>	<u>Commitments</u>	<u>Surplus</u>
1973-4	N/A	\$58,139	---
1974-5	N/A	34,860	---
1976	\$100,000	\$80,472	\$19,528
1977	\$100,000	\$95,000	\$24,528
1978	\$100,000	\$100,000	\$24,528
1979	\$100,000	\$36,100	\$88,428
1980 (FY)	\$100,000	\$96,508	3,492 \$91,920
1981 (FY)	\$100,000*	\$146,933*	\$44,987
1982 (FY)	---	\$92,905	---

*Includes \$25,000 for salary and expenses of the Research Director

PUBLICATIONS AND REPORTS PREPARED DURING 1981

1. Spruce Budworm in Maine: The 1981 Cooperative Spruce Budworm Suppression Project, Maine Forest Service, compiled and edited by Jan Selser and Dick Dyer.
2. Devine, Michael E. and Connor, Jonathan Y., Resurvey of Spruce Budworm Damage in the Moosehorn National Wildlife Refuge, Maine Forest Service, February, 1981.
3. Trial, Henry Jr. and Devine, Michael E., Spruce Budworm in Maine: Biological Condition in 1980 and Expected Infestation Conditions for 1981, Maine Forest Service, February, 1981.
4. Environmental Monitoring Reports from the 1979 Maine Cooperative Spruce Budworm Suppression Project. Maine Forest Service, Spring, 1981.
5. Environmental Monitoring Reports from the 1980 Maine Cooperative Spruce Budworm Suppression Project, Maine Forest Service, December 1981.
6. Spruce Budworm in Maine, information folder produced by the Small Woodlot Management Program, Maine Forest Service, December, 1981.