

46th SOUTHERN FOREST INSECT WORK CONFERENCE

Report on Losses Caused by Forest Insects

July 29 – August 1, 2002 @ Roanoke, Virginia

To: Members of the Southern Forest Insect Work Conference

The attached report contains figures and statistics on losses caused by forest insects during calendar year 2001. The data in this report were submitted by 13 southeastern states, the USDA Forest Service Region 8, other Federal land management agencies, and the Western Gulf Forest Tree Improvement Program. With the exception of calendar year 1997, similar information has been obtained from these sources for the past 30 years. The supplied information is compiled into a report which is distributed at the annual Southern Forest Insect Work Conference.

The report has five sections, each dealing with a different damage class. The damage classes are: A – Mortality, B – Growth Reduction, C – Seed and Cone, D – Miscellaneous, and E – Oak Defect and Degrade. When possible, loss figures are separated to distinguish federal from state or private ownership.

No attempt has been made to adjust figures to account for unreported losses. None of the figures in this report should be considered as complete for any insect for calendar year 2001. This report simply estimates damage classes and levels for a variety of significant forest-tree pests during 2001.

At the 1999 SFIWC in Pensacola, FL, it was decided that the report should list state-by-state data to make the report more specific. Accordingly, damage classes A, B, and D each have two tables: one listing the state-by-state data and one listing the compiled data from all states for a particular insect (the second table is very similar to the tables found in reports prior to 2000). This year, SPB losses on Federal lands are separated by the state in which the damage occurred; this is a change from past reports where one SPB category for all Region 8 Federal lands was used. Also included in the second table are last year's report results. This recent addition to the report lets us see how much a particular insect's damage has increased or decreased from calendar year 2000 to calendar year 2001.

For questions regarding the SFIWC Losses Report, contact Don Duerr, Forest Health Protection, Atlanta, GA (404-347-3541; e-mail: dduerr@fs.fed.us).

Sincerely,

SFIWC Committee on Losses Caused by Forest Insects

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class A -- Mortality (sorted by state and/or reporting organization)

State/ Org.	Insect*	Ownership*	Documented Damage			Estimated Damage			TOTAL DAMAGE		
			MBF	Cords	Value	MBF	Cords	Value	MBF	Cords	Value
AL	SPB	S&P	23,438	950,460	26,597,000	5,857	237,615	5,953,000	29,295	1,188,075	32,550,000
AL	SPB	Fed.	31,898		3,777,680	5,400		639,522	37,298		4,417,202
FL	SPB	S&P				164,546	97,680	38,648,282	164,546	97,680	38,648,282
FL	SPB	Fed.	587		69,518				587		69,518
GA	SPB	S&P	1,200	3,582	342,375	24,000	71,640	6,847,493	25,200	75,222	7,189,867
GA	SPB	Fed.				17,865		2,115,752	17,865		2,115,752
KY	SPB	S&P				31,104		3,683,647	31,104		3,683,647
KY	SPB	Fed.				4,050		479,642	4,050		479,642
LA	BTB	S&P				200		73,800	200		73,800
LA	IPS	S&P				1,100	2,100	930,900	1,100	2,100	930,900
MS	MBB	S&P				237	908	81,835	237	908	81,835
MS	SPB	Fed.	559		66,202				559		66,202
NC	SPB	S&P	52,703	80,308	12,838,548	39,527	60,231	9,628,911	92,230	140,539	22,467,459
NC	SPB	Fed.				20,277		2,401,405	20,277		2,401,405
NC	BTB	S&P	41		8,200	123		24,600	164		32,800
NC	IPS	S&P	1,022		204,400	3,066		613,200	4,088		817,600
NC	LB	S&P				1,000		150,000	1,000		150,000
NC	PW	S&P					(Seedlings)	9,900		(Seedlings)	9,900
SC	SPB	S&P	215,808	306,661	75,805,268				215,808	306,661	75,805,268
SC	SPB	Fed.				3,402		402,899	3,402		402,899
SC	BTB	S&P				5,272	7,491	1,684,687	5,272	7,491	1,684,687
SC	IPS	S&P				6,192	8,798	1,978,827	6,192	8,798	1,978,827
SC	PW	S&P					(Seedlings)	120,000		(Seedlings)	120,000
TN	SPB	S&P				483,482	149,266	82,655,871	483,482	149,266	82,655,871
TN	SPB	Fed.				18,414		2,180,770	18,414		2,180,770
TN	BTB	S&P					1	10		1	10
TN	IPS	S&P					142	2,451		142	2,451
TX	BTB	S&P				670	500	231,200	670	500	231,200

TX	IPS	S&P		2,856	6,390	1,046,260	2,856	6,390	1,046,260
VA	SPB	S&P			6,000	30,000		6,000	30,000
VA	SPB	Fed.		3,000		90,000	3,000		90,000
VA	BTB	S&P			400	4,000		400	4,000
VA	IPS	S&P			200	2,000		200	2,000
VA	BWA	S&P			10	100		10	100
VA	GM	S&P		18,000	95,000	2,300,000	18,000	95,000	2,300,000
VA	GM	Fed.		50,000	365,000	6,800,000	50,000	365,000	6,800,000
VA	HWA	S&P		200	300	21,500	200	300	21,500
VA	HWA	Fed.		300	900	34,500	300	900	34,500
VA	Drought	S&P		11,000		1,405,000	11,000		1,405,000
USFS	HWA	Fed.	(See Damage Class D)						
USFS	BWA	Fed.			100,010	600,100		100,010	600,100
TOTAL				327,256	1,341,011	119,709,191	921,140	1,210,582	173,872,064
							1,248,396	2,551,593	293,581,254

***Abbreviations**

IPS = *Ips* Engraver Beetles
 SPB = Southern Pine Beetle
 BTB = Black Turpentine Beetle

LB = Locust Borer
 PW = Pales Weevil

MBB = Mixed Bark Beetles
 BWA = Blasam Woolly Adelgid
 GM = Gypsy Moth

HWA = Hemlock Woolly Adelgid
 S&P = State/Private Ownership
 Fed. = Federal Ownership

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class A -- Mortality (sorted by Insect and Ownership and compared to CY 2000)

Insect*	Ownership*	CY 2001 TOTAL DAMAGE			CY 2000 TOTAL DAMAGE		
		MBF	Cords	Value	MBF	Cords	Value
SPB	S&P	1,041,665	1,963,443	263,030,394	2,302,369	13,402,913	328,395,060
SPB	Fed.	105,452	-----	12,223,390	65,737	-----	23,007,950
BTB	S&P	6,306	8,392	2,026,497	28,330	2,706	9,293,704
IPS	S&P	14,236	17,630	4,778,038	23,739	75,944	13,421,996
MBB	S&P	237	908	81,835	15,000	5,000	450,000
LB	S&P	1,000	-----	150,000	1,000	-----	150,000
BWA	S&P	-----	10	100	-----	40	200
BWA	Fed.	-----	100,010	600,100	-----	100,060	600,300
PW	S&P	Seedlings	-----	129,900	Seedlings	-----	9,372
HWA**	S&P	200	300	21,500	120	280	14,800
HWA**	Fed.	300	900	34,500	1,280	1,920	159,200
GM	S&P	18,000	95,000	2,300,000	6,000	88,000	1,428,000
GM	Fed.	50,000	365,000	6,800,000	24,000	352,000	5,712,000
Drought	S&P	11,000		1,405,000	-----	-----	-----
TOTAL		1,248,396	2,551,593	293,581,254	2,467,575	14,028,863	382,642,552

*Abbreviations

SPB = Southern Pine Beetle

BTB = Black Turpentine Beetle

IPS = *Ips* Engraver Beetles

LB = Locust Borer

PW = Pales Weevil

MBB = Mixed Bark Beetles

BWA = Blasam Woolly Adelgid

GM = Gypsy Moth

HWA = Hemlock Woolly Adelgid

S&P = State/Private Ownership

Fed. = Federal Ownership

** See Class D

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class B -- Growth Reduction (sorted by state and/or reporting organization)

State/ Org.	Insect*	Ownership*	TOTAL ESTIMATED DAMAGE		
			MBF	Cords	Value
LA	BCLR	S&P	5,300		1,208,400
LA	FTC	S&P		19,000	247,000
NC	ETC	S&P		275	2,200
NC	FTC	S&P	3,500		420,000
NC	GM	S&P	12		1,440
NC	NPTM	S&P		1,500	33,000
NC	VPS	S&P		1,000	22,000
TN	FC	S&P	44		10,780
TN	NPTM	S&P		1,097	18,932
TN	RHPS	S&P		34	587
TX	TM	S&P		7,220	101,080
VA	GM	S&P	7,200		864,000
VA	NPTM	S&P		10,000	50,000
VA	Drought	S&P	220,000		unknown
TOTAL			236,056	40,126	2,979,419

*Abbreviations

NPTM = Nantucket Pine Tip Moth

RHPS = Red-Headed Pine Sawfly

TM = Tip Moth

BCLR = Baldcypress Leafroller

FTC= Forest Tent Caterpillar

ETC = Eastern Tent Caterpillar

FC = Fall Cankerworm

GM = Gypsy Moth

VPS = Virginia Pine Sawfly

S&P = State/Private Ownership

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class B -- Growth Reduction (sorted by Insect and compared to CY 2000)

Insect*	Ownership*	CY 2001 TOTAL DAMAGE			CY 2000 TOTAL DAMAGE		
		MBF	Cords	Value	MBF	Cords	Value
NPTM	S&P	----	12,597	101,932	----	23,899	617,032
RHPS	S&P	----	34	587	----	500	17,500
APS	S&P	----	----	----	----	2,000	54,000
BCLR	S&P	5,300	----	1,208,400	13,400	----	3,294,000
FTC	S&P	3,500	19,000	667,000	4,900	265,750	5,824,250
ETC	S&P	----	275	2,200	----	250	2,000
FC	S&P	44	----	10,780	210	----	27,090
GM	S&P	7,212	----	865,440	6,412	----	961,440
VPS	S&P	----	1,000	22,000	----	1,200	26,400
LL	S&P	----	----	----	1,546	----	182,428
TM	S&P	----	7,220	101,080	----	6,875	171,875
VOLC	S&P	----	----	----	3,960	----	131,868
FW	S&P	----	----	----	1,250	----	150,000
Drought	S&P	220,000	----	unknown	----	----	----
TOTAL		236,056	40,126	2,979,419	31,678	300,474	11,459,883

*Abbreviations

NPTM = Nantucket Pine Tip Moth

S&P = State/Private Ownership

RHPS = Red-Headed Pine Sawfly

APS = Arkansas Pine Sawfly

BCLR = Baldcypress Leafroller

FTC= Forest Tent Caterpillar

ETC = Eastern Tent Caterpillar

FC = Fall Canckerworm

GM = Gypsy Moth

VPS = Virginia Pine Sawfly

FW = Fall Webworm

LL = Locust Leafminer

VOLC = Variable Oak Leaf Caterpillar

TM = Tip Moth

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class C -- Seed and Cone (sorted by Insect and Ownership and compared to CY 2000)

Insect	Ownership	CY 2001 TOTAL DAMAGE		CY 2000 TOTAL DAMAGE	
		Lbs. of Seed	Value	Lbs. of Seed	Value
Seedbugs	S&P	5,416	1,986,440	3,969	1,587,600
Seedbugs	Fed.	4,000	1,000,000	4,000	1,000,000
Coneworms	S&P	9,860	3,587,580	7,724	3,089,600
Coneworms	Fed.	6,000	2,000,000	5,500	1,500,000
Cone beetle	S&P	0	0	500	25,000
Cone beetle	Fed.	500	125,000	500	125,000
Acorn weevil	S&P	2,700	27,000	2,573	25,730
Acorn weevil	Fed.	500	750,000	500	750,000
Other AI*	Fed.	40	75,000	50	75,000
SCGM**	S&P	0	0	65	4,580
TOTAL		29,016	9,551,020	25,381	8,182,510

* Other Acorn Insects

** Southern Cone Gall Midge

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class D -- Miscellaneous (sorted by state and/or reporting organization)

State/ Org.	Insect*	Own- ership*	Documented Damage			Estimated Damage			TOTAL DAMAGE		
			# of Trees	# of Acres	Value	# of Trees	# of Acres	Value	# of Trees	# of Acres	Value
AR	OB	S&P				thousands		unknown	thousands		unknown
AR	ETC	S&P				thousands		unknown	thousands		unknown
AR	FW	S&P				thousands		unknown	thousands		unknown
AR	GH	S&P				thousands		unknown	thousands		unknown
MS	BTB	S&P				500		unknown	500		unknown
MS	IPS	S&P				800		unknown	800		unknown
MS	BHPS	S&P					60	unknown		60	unknown
OK	FC	S&P				400,000	1,000	unknown	400,000	1,000	unknown
OK	IPS	S&P				175,000	1,600,000	10,000,000	175,000	1,600,000	10,000,000
OK	SPB	S&P				5		60	5		60
TN	LPS	S&P				243		52	243		52
TX	PW	S&P				595,200		26,800	595,200		26,800
TX	TA	S&P				567,000	945	89,775	567,000	945	89,775
VA	OB	S&P				200,000		1,500,000	200,000		1,500,000
VA	OB	Fed.				200,000		1,500,000	200,000		1,500,000
USFS	OB	Fed.					300,000	unknown		300,000	unknown
TOTAL			0	0	0	2,138,748	1,902,005	13,116,687	2,138,748	1,902,005	13,116,687

*Abbreviations

OB = Oak Borers

S&P = State/Private Ownership

IPS = *Ips* Engraver Beetles

Fed. = Federal Ownership

ETC = Eastern Tent Caterpillar

PW = Pales Weevil

GH = Grasshopper

LPS = Loblolly Pine Sawfly

SPB = Southern Pine Beetle

BHPS = Black-Headed Pine Sawfly

TA = Town Ant

FC = Fall Cankerworm

FW = Fall Webworm

BTB = Black Turpentine Beetle

Survey of Damage Caused by Forest Insects in the Southeast, CY 2001

Damage Class D -- Miscellaneous (sorted by Insect and Ownership and compared to CY 2000)

Insect*	Ownership*	CY 2001 TOTAL DAMAGE			CY 2000 TOTAL DAMAGE		
		# of Trees	# of Acres	Value	# of Trees	# of Acres	Value
PCB	S&P					9,000	unknown
RHPS	S&P				45	1	11
WG	S&P					90	4,500
IPS	S&P	175,800	1,600,000	10,000,000		100	6,000
ETC	S&P		thousands	unknown	25,000,000		unknown
PW	S&P	595,200		26,800	540,000	135	30,700
LPS	S&P	243		52	315	2	79
SPB	S&P	5		60	6,000	20	140,000
TA	S&P	567,000	945	89,775	630,000	1,050	99,750
OB	S&P	200,000		1,500,000	100,000		10,000,000
OB	Fed.	200,000	300,000	1,500,000	80,000	300,000	8,000,000
GH	S&P		thousands	unknown			
FW	S&P		thousands	unknown			
BHPS			60	unknown			
FC		400,000	1,000	unknown			
BTB		500		unknown			
TOTAL		2,138,748	1,902,005	13,116,687	26,356,360	310,398	18,281,040

*Abbreviations

PCB= Pine Colaspis Beetle
 IPS = *Ips* Engraver Beetles
 ETC = Eastern Tent Caterpillar
 PW = Pales Weevil
 WG = White Grub
 LPS = Loblolly Pine Sawfly
 SPB = Southern Pine Beetle
 RHPS = Red-Headed Pine Sawfly
 TA = Town Ant
 OB = Oak Borers
 GH = Grasshopper
 BHPS = Black-Headed Pine
 Sawfly
 FW = Fall Webworm
 FC = Fall Cankerworm
 BTB = Black Turpentine Beetle

S&P = State/Private Ownership
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