#### VIII. APPENDIX - TABLES

TABLE VIII-1

DISABLING WORK INJURIES IN LOGGING
BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

Accident Type and Agent	No. of Injuries
Struck by or striking against: Hand tools in use	386
nand cools in use	
Chain saw	113
Power saw	17
Axe	6
Jack	2
Other	2
Other objects while handling	
Truck trailer	5
Log	4
Tree	2
Other	7
Moving equipment other than motor vehicles	
Yarding equipment	11
Other	7
Falling or flying objects	
Branch	43
Tree	39
Log	17
Choker	2
Rock	2
Other	7
Moving or rolling objects	•
Log	31
Rock	3
Hand tool, n.e.c.*	14

### TABLE VIII-1 (CONTINUED)

### DISABLING WORK INJURIES IN LOGGING BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

Accident Type and Agent	No. of Injuries
Stationary objects	
Log	8
Tree	3
Branch	2
Yarding equipment	2
Other	11
Contact with sharp object	7
Other	19
Fall or slip	212
On same level	•
Using chain saw	20
Walking on uneven ground	19
Setting, pulling chokers	18
Walking on littered ground	16
Running, walking from falling tree	10
Walking on wet, slippery ground	6
Walking through brush	4
Loading truck	2
Other	15
From elevated level	
Log	37
Truck	8
Bank	6
Tractor	4
Branch	3
Stump	3
Other	3
While stepping on, off, or over	
Log	17
Tractor	12
Truck	9

### TABLE VIII-1 (CONTINUED)

### DISABLING WORK INJURIES IN LOGGING BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

Accident Type and Agent	No. of Injuries
Accident involving moving motor vehicle	<u>102</u>
Struck by objects set in motion by	41
Overturning, running off road	14
Strain or overexertion in operating	9
Fall from	7
Run over or struck by	7
Contact with vehicle or object	
within vehicle	6
Caught between vehicle and other object	5
Collision with fixed object	5
Collision with other moving vehicle	5
Shifting load or object falling	
within vehicle	3
Strain or overexertion Lifting or lowering	<u>85</u>
Chain saw	4
Log	4
Power saw	2
Tire	2
Other	12
Using hand tool	
Chain saw	10
Axe	2
Other	5
Pushing or pulling object	
Cable	4
Choker	4
Other	4
Setting choker	12
Holding or carrying object	6
Sudden or awkward motion	5
Other	9

### TABLE VIII-1 (CONTINUED)

### DISABLING WORK INJURIES IN LOGGING BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

Accident Type and Agent		No. of Injuries
Caught in or between		<u>36</u>
Choker		10
Log		6
Tractor		3
Tree		2
Tractor		2
Truck		2
Other		11
Foreign substance in eye		<u>23</u>
Branch		13
Wood chip		4
Dust		2
Other		4
Bite, sting		<u>11</u>
Contact with welding flash, toxic, or noxious substance		<u>7</u>
Hot environment or substance		<u>4</u>
Cardiovascular strain or disease		<u>2</u>
Other, and type not stated		<u>13</u>
	Total	881

TABLE VIII-1 (CONTINUED)

### DISABLING WORK INJURIES IN LOGGING BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

### SUMMARY

Accident Type	No. of Injuries	Percentage
Struck by or striking against	386	43.8
Fall or slip	212	24.1
Accident involving moving motor vehicle	102	11.6
Strain or overexertion	85	9.6
Caught in or between	36	4.1
Foreign substance in eye	23	2.6
Bite, sting	11	1.2
Contact with welding flash, toxic, or noxious substances	7	0.8
Hot environment or substance	4	0.5
Cardiovascular strain or disease	2	0.2
Other and type not stated	13	1.5
Total	881	100.0

<sup>\*</sup> not elsewhere classified Derived from reference 16

TABLE VIII-2
OREGON LOGGING INDUSTRY FATALITIES

			Y	ear of	Occurre	nce				
Source	1966	1967	1968	1969	1970	1971	1972	1973	Total	Percentage
Falling/flying objects	19	15	15	11	11	15	9	19	114	37.4
Rolling/moving logs	13	8	19	13	9	12	9	12	95	31.1
Chain saws	0	0	0	0	0	0	0	0	0	0.0
Slips, trips, and falls	2	0	3	1	1	0	1	0	8	2.6
Moving vehicles	11	9	1	3	10	14	13	14	75	24.6
Ergonomic violation	0	0	0	0	1	1	0	0	2	0.7
Miscellaneous	0	0	2	0	5	0	1	3	11	3.6
Total	45	32	40	28	37	42	33	48	305	100.0

TABLE VIII-3

FLORIDA INJURY DATA
LOGGING CAMPS AND LOGGING CONTRACTORS
AS OF SEPTEMBER 1974

Injury Type	No. of Injuries	Percentage
Struck against	126	25.5
Struck by	201*	40.8
Caught in/under/between	25	5.0
Fall on same level	23	4.7
Fall to different level	23	4.7
Overexertion or bodily reaction	59	12.0
Contact with temp/press extreme	6	1.2
Contact with toxic substances, etc	8	1.6
Motor vehicle and aircraft accident	19	3.9
Other	3	0.6
TOTAL	493	100.0

<sup>\* 87</sup> from falling/flying objects Derived from reference 17

TABLE VIII-4

NORTHEASTERN US
DISABLING WORK INJURIES (LOGGING)
1973, 1974

Agent		No. of I Injuries	Percentage
Falling/flying objects		57	43.2
Rolling/moving logs		6	4.5
Chain saws		42	31.8
Slips, trips, falls		10	7.6
Moving vehicle		2	1.5
Ergonomic (motion)		7	5.3
Insect bite		5	3.8
Tool		2	1.5
Other		1	0.8
	Total	132	100.0

Derived from (Maine Industrial Accident Commission Data, written communication, 1975)

TABLE VIII-5

INSURANCE COMPANY INJURY CAUSE AND COST ANALYSIS
FOR WORKMEN'S COMPENSATION CLASSIFICATION 2702 (LOGGING)
ANALYSIS BY ACCIDENT TYPE

Accident Type and Major Cause	No. of Injuries	Percent of Injuries	Cost	Percent of Cost
Struck by falling objects	1,604	19.6	\$5,591,018	41.9
Trees, branches	1,153		4,681,980	
Logs	185		588,984	
Objects	36		76,374	
Lumber or timber	19		34,428	
Other	211		209,252	
Struck by moving objects	1,183	14.5	\$1,859,983	13.9
Logs	342		771,580	
Trees, branches	422		591,664	
Vehicles, misc.	8		103,931	
Other	411		392,808	
Handling Logs Board, plank,	<u>587</u> 148	7.2	\$ 657,168 281,851	4.9
plywood	75		98,073	
Trees, branches	56		43,481	
Chain saw	29		34,067	
Other	279		199,696	
Cut by	1,455	17.8	\$ 636,106	4.8
Chain saw	864		387,233	
Saw-misc (wood)	369		159,971	
Axes (hatchets)	93		44,219	
Other	129		44,683	
Collision or Upset Trucks and	<u>161</u>		\$ 483,181	3.6
trailers (semi) Contractors'	58		197,445	
vehicles	4		51,861	
Trucks, straight	12		46,379	
Automobile	10		33,721	
Skidder	10		30,417	
Other	67		123,358	
Total	4,990		\$9,227,456	

Derived From (M Franson, written communication, November 1974)

TABLE VIII-6

AMERICAN PULPWOOD ASSOCIATION
NORTHEASTERN TECHNICAL DIVISION
CUMULATIVE YEAR TO DATE LOST TIME LOGGING INJURIES

		Number of Cut	ing Injuries
Source		December 1972	December 1973
Falling limbs or stubs		4	15
Trees, logs, or bolts		10	20
Chain saws		19	22
Slips, trips and falls		2	13
Hand tools		1	0
Machinery		2	4
Other		2	9
	Total	40	83

From (RP Sarna, written communication, February 1976)

TABLE VIII-7

DISABLING WORK INJURIES TO FELLERS BY DETAILED ACCIDENT TYPE AND AGENT, CALIFORNIA, 1970

Accident Type and Agent	Number of Injuries	Percentage
Struck by or striking against	155	56.7
Hand tool, in using		
Chain saw	66	
Power saw	8	
Axe	1	
Falling/flying object		
Branch	30	
Tree	20	
Log	4	
Other	4	
Moving/rolling object		
Log	6	
Rock	1	
Bumping into stationary object		
Log	2	
Tree	1	
Other	3	
Contact with sharp object	6	
Other	3	
Fall or slip	<u>74</u>	27.0
Fall or slip on the same level		
Running, walking from falling tree	10	
Setting, pulling, unhooking choker	7	
Using chain saw	7	
Walking on littered ground	6	
Walking on uneven ground	6	
Walking on steep ground	3	
Loading truck	2	
Walking on wet, slippery ground	2	
Walking through brush	2	
Other	8	

### TABLE VIII-7 (CONTINUED)

### DISABLING WORK INJURIES TO FALLERS BY DETAILED ACCIDENT TYPE AND AGENCY, CALIFORNIA, 1970

Accident Type and Agent	Number of Injuries	Percentage
Fall from elevation		
Log	11	
Other	4	
Fall or slip while stepping on,		
off, or over log	6	
Foreign substance in eye	17	6.2
Branch	<del>17</del> 8	
Wood chip	4 2	
Dust	2	
Other	3	
Strain or overexertion	16	5.8
Using hand tool	16 8 6	
Chain saw	6	
Other	2	
Lifting or lowering object	6	
Chain saw	4	
Other	2	
Pulling on choker	2	
Caught in or between	4	1.5
Cable	$\frac{4}{1}$	
Log	1	
Rigging	1	
Tree	1	
Contact with poison oak	2	0.7
Insect bite	<u>2</u>	0.7
Other	<u>2</u>	0.7
Accident type not stated	<u>2</u>	0.7
Total	274	100.0

TABLE VIII-8

LOGGING INJURIES, AMERICAN PULPWOOD ASSOCIATION NORTHEASTERN DIVISION, 1958-72

		<del></del>	<del></del>		<del></del>
Agent	Cutting	Hauling	Other	Injuries Total	%
Falling limbs and studs	144	11	2	157	7.1
Trees, logs, bolts	386	82	28	496	22.4
Chainsaws	560	14	10	584	26.4
Slips and falls	166	72	73	311	14.1
Hand tools	126	49	31	206	9.3
Machinery	47	54	23	124	5.6
Horses and equipment	44	19	9	72	3.3
Infections, minor wounds	27	9	12	48	2.2
Other	106	30	76	212	9.6
Total	1,606	340	264	2,210	100.0

TABLE VIII-9

WORK FATALITIES IN LOGGING BY DETAILED ACCIDENT TYPE
CALIFORNIA, 1966-72

Accident Type	No. of Fatalities
Struck by or striking against	57
Falling tree, snag, branch	36
Log rolling downhill	6
Log falling from truck	4
Log being skidded, yarded	3
Flying limb	2
Log rolling off deck	1
Bulldozer blade fell on	1
Flying wood	1
Loading boom fell on	1
Log swinging	1
Struck by falling block	1
Accident involving moving motor vehicle	27
Overturning, running off road	<del>13</del>
Caught between moving vehicle and other object	4
Collision with other moving vehicle	3
Tractor ran over	3
Log crashed into truck cab	1
Log rolled on tractor	1
Log swung against tractor	1
Tree fell on tractor	1
Caught in or between	<u>13</u>
Two trees	4
Log and tractor	2
Two logs	2
Loader and trailer	1
Loader and chain saw	1
Log and power saw	1
Log and truck	1
Snag and log	1
deart attack	<u>3</u>
Heat stroke	<u>1</u>
Total	101

# TABLE VIII-10 SUMMARY OF LOGGING FATALITIES FOR WASHINGTON (1968, 1970-72) AND CALIFORNIA (1968,1971)\*

OCCUPATION OF VICTIM																		
B = Bucker F C = Rigger (Misc)	E = Log : F = Skide G = Chase H = Truc	der er				K	=	Lab Pow Tag Gra	der &	man Tal		an	O P	=	Equ Ope Hau Obs Oth	rat lin erv	or g E	
Fatality Cause	Total	A	В	С	D	E	F	G	Н	I	J	К	L	м	N	0	P	Q
Felling/bucking operations																		
Struck by felled tree (self)	) 2	2																
Struck by felled tree (other			3		1				1	1						1		
Struck by tree knocked	6	6	-						_	_						_		
Struck by snag	9	7			1	1												
Struck by flying timber	14	11	1		1													
(widowmaker)																		
Struck by uprooted tree	3	1	1		1													
Struck by lodged tree	5	4	1															
Struck by kickback																		
Struck by tree left standing	<b>2</b> 4	4																
partially cut	•	•																
Struck by slab	2	2																
Trees falling uphill/bckwrd			1															
Skidding/yarding operations																		
Struck by rolling log/tree	17	3	6	3	3									1				1
Hit/log hit by other thing	3	1			1			1										
Hit/lot dropped during load:	ing 14	1		1		3		2	7									
Struck by log being yarded	10			2	7			1										
Struck by tractor-skidded lo	og 1						1											
Struck by rigging incl choke					3			1										
Struck by log movement duris				2	2													
choker setting	_																	
Struck by springback of tree released from tension	es 1				1													
Struck by chunk or timber dropped from rigging	2				2													
Struck by tree felled by winching cable	1				1													
Struck by swinging log	1						1											

#### TABLE VIII-10 (CONTINUED)

### SUMMARY OF LOGGING FATALITIES FOR WASHINGTON (1968, 1970-72) AND CALIFORNIA (1968,1971)\*

		occi	JPAI	OI	N 0	F VI	CT:	IM										
B = Bucker F C = Rigger (Misc) G				K	J = Laborer K = Powderman L = Tag & Tallyman M = Grader				N = Equipment Operator O = Hauling Engr P = Observer Q = Other									
Patality Cause	Total	A	В	С	D	E	F	G	н	I	J	K	L	M	N	0	P	Q
Transport operations	15								13								2	
Agents																		
Slips, trips and falls	3	1			2													
Heart attack	3	1			1													
Drowning	1		1															
Falls from logs	1		1															
Struck by log hit by vehicle	. 1	1																
Chain saw	5	3	1															
Hit by tree felled by vehicl					1													
Struck by vehicle	26				10	6	1	2	7									
Electrocution	1					1			_									
Loss of vehicle control	20					3	4		9					2	1			1
Powder blast	1											1						
Snag (direct or indirect)	13	11			1	1												
Location																		
Felling/bucking area	72	55	13		1					1						1	1	
Yarding skidding area	50			_	35			5								1		
Landing area	40	3	1	1		13	1	8	11		1		1					2
Total	184		13		2.7		_			1	1		1	2	1		1	_

<sup>\*</sup> NOTE: Table VIII-10 summarizes 184 fatality reports and many of the fatalities have been used more than once in showing relationships. Only the total fatalities, as a function of occupation, for each cause are correct; the totaling of vertical columns is not intended.

Derived from reference 3

TABLE VIII-11

INSURANCE COMPANY INJURY CAUSE AND COST ANALYSIS
FOR WORKMEN'S COMPENSATION CLASSIFICATION 2702 (LOGGING)
ANALYSIS BY CAUSE

Major Cause and Accident Type	No. of Injuries	Percent of All Injuries	Cost	Percent of Cost
Trees, branches Struck by	1,955	23.9	\$5,751,207	43.1
falling objects Struck by	1,153		4,681,980	
moving objects	422		591,664	
Contact with Struck by	101		125,051	
flying objects	47		88,431	
Caught between	33		61,638	
Fall from elev.	1.2		55,613	
H <b>a</b> ndl <b>ing</b>	56		43,481	
Other	131		103,349	
Logs	1,038	12.7	\$2,052,076	15.4
Struck by moving objects Struck by	342		771,580	
falling objects	185		588,984	
Handling	148		281,851	
Fall from elev.	22		98,557	
Caught between	115		82,852	
Other	226		228,252	
Chain saw	1,096	13.4	\$ 542,110	4.1
Cut by	864	<del></del>	387,233	
Kick back	103		56,783	
Other	129		98,094	
Person injured	142		\$ 409,052	3.1
Heart attack	8		236,432	
Overexertion	108		138,449	
Other	26		34,171	
Other	3,849			
Total	8,180			

Derived from (M Pearson, written communication, November 1974)

TABLE VIII-12

DISABLING WORK INJURIES IN LOGGING
BY DETAILED AGENCY, CALIFORNIA, 1970

Agent	No. of Injuries	Percentage
Hand tools	219	24.9
Chain saw	158	
Power saw, n.e.c.*	27	
Axe	10	
Saw, hand	4	
Jackhammer, tamper	3	
Hammer, hand	2	
Peeling bar	2	
Wedge	2	
Wrench	2	
Other	9	
Logs, trees, lumber	201	22.8
Log	$\overline{112}$	
Branch	47	
Tree	41	
Lumber	1	
Vehicles	151	17.1
Tractor	79	
Truck	37	
Road grader	12	
Log loader	11	
Truck trailer	9	
Automobile	2	
Dolly	1	
Working surfaces	137	15.6
Groundoutdoors	107	_ <b>- •</b> •
Truck bed	12	
Truck running board	7	
Log deck, ramp	4	
Tree, branch	4	
Elevated working surface, n.e.c.*	2	
Staging	1	

TABLE VIII-12 (CONTINUED)

DISABLING WORK INJURIES IN LOGGING

BY DETAILED AGENCY, CALIFORNIA, 1970

Agent	No. of Injuries	Percentage
Hoisting, rigging, and loading equipment Choker	90 59	10.2
Yarding equipment, n.e.c.* Shovel loader	25 6	
Chemicals, hot or injurious substances Dust Poison oak Welding flash Dynamite	9 3 3 2 1	1.0
Machines Welding machine Other	8 2 6	0.9
Containers	<u>5</u>	0.6
Other agencies Insect Rock Binder, wrapper Brush Metal stock Tire Person injured (heart attack) Pipe Stock part Other	46 11 5 4 3 3 3 2 2 2 2	5.2
Agency not stated	<u>15</u>	1.7
Tota	1 881	100.0

<sup>\*</sup> not elsewhere classified Derived from reference 16

TABLE VIII-13

DISABLING WORK INJURIES TO FELLERS
BY DETAILED AGENCY, CALIFORNIA, 1970

Agency	No. of Injuries	Percentage
and tools	112	40.9
Chain saw	90	
Power saw, n.e.c.*	15	
Axe	2	
Other	5	
ogs, trees, lumber	<u>79</u>	28.8
Branch	26	
Log	26	
Tree	25	
Lumber	2	
Orking surfaces	<u>53</u> 47	19.3
Groundoutdoors, n.e.c.*		
Tree, branch	4	
Log	1	
Staging	1	
Chokers	12	4.4
/ehicles	5	1.8
Tractor	<u>5</u> 4 1	
Log loader	1	
ther	9	3.3
gency not stated	4	1.5
Total	274	100.0

<sup>\*</sup> not elsewhere classified Derived from reference 16

TABLE VIII-14

## STATE OF MAINE 1972 INJURIES BY ACCIDENT TYPE LOGGING CAMPS AND LOGGING CONTRACTORS

Accident Type	No. of Injuries	Percentage
Struck against/by	455	61.7
Fall from/on	72	9.8
Caught in/under/between	49	6.6
Overexertion	43	5.8
Contact with extreme temperatures	4	0.5
Contact with substances by inhalation/ingestion/absorption	3	0.4
Contact with electric current	0	0.0
Motor vehicle accident	9	1.2
Other	79	10.7
Unknown/unclassifiable	23	3.1
Total	737	99.8*

<sup>\*</sup> Not 100% due to rounding off Derived from reference 24

TABLE VIII-15

PENNSYLVANIA WORK INJURIES
LUMBER AND WOOD PRODUCTS, APRIL 1973

Туре	No. of Injuries
Striking against objects	25
Struck by objects	66
Caught in, on, or between objects	11
Falls on same level	4
Falls to different level	3
Slips (not falls) or overexertion	26
Other	1
Total (includes one fatality)	136

TABLE VIII-16

DISABLING WORK INJURIES IN LOGGING
BY ACCIDENT TYPE AND AGENCY, CALIFORNIA, 1970

Accident Type	Total	Machines	Hoisting, Rigging, and Loading Equipment	Vehicles	Hand Tools	Chemicals, Hot, Injurious Substances	Working Surfaces	Logs, Trees, Lumber	Other or Agency not Stated
Struck by or striking against	386	1	46	15	171	_	18	117	18
Fall or slip	212	-	12	17	4	-	117	59	3
Accident involving moving vehicle	102	-	-	102	-	-	-	_	-
Strain or overexertion	85	2	18	8	23	-	1	12	21
Caught in or between	36	2	14	7	3	-	1	8	1
Foreign substance in eye	23	2	-	1	14	-	-	4	2
Other or accident type not stated	37	1	-	1	4	9	-	1	21
Total	881	8	90	151	219	<del>9</del>	137	201	66

#### TABLE VIII-17

### WORK FATALITIES\* IN LOGGING BY DETAILED AGENT, CALIFORNIA, 1966-72

Agent		No. of Fatalities	
Trees, log, branches Tree		60 36	
Log		18	
Branch		6	
Vehicles		<u>32</u> 18	
Tractor			
Truck		8 3 3	
Log loader		3	
Road grader		3	
Hoisting apparatus		<u>5</u>	
Choker		5 1 1 1 2	
Haulback line		1	
Loading boom		1	
Yarding equipment, n.e.c.**		2	
Heart attack		<u>3</u>	
Heat stroke		1	
	Total	101	

<sup>\*</sup> A work fatality is: (1) a death for which a finding and award decision is issued by the Workmen's Compensation Appeals Board; (2) a death for which liability is accepted by the insurance carrier or self-insurer without an Appeals Board determination; (3) a death for which a compromise and release agreement is approved by the Appeals Board in which dependency is the sole issue; (4) a death for which the amount of the compromise settlement either equals or exceeds the commuted value of a findings and award.

<sup>\*\*</sup> not elsewhere classified Derived from reference 16

TABLE VIII-18

TYPES OF ACCIDENTS INVOLVING CHAIN SAWS, LOGGING, 1970 (ÇALIFORNIA)

Accident Type	No. of Injuries
Saw kicked back	67
Struck by falling, flying branch, twig, splinter	31
Saw slipped while using	14
Strain in using, handling	13
Saw struck by branch	5
Saw slipped from grasp, n.e.c.*	5
Worker slipped, fell with saw, n.e.c.*	5
Hand slipped into saw	3
Chain jumped off saw	2
Other or type not stated	13
Total	158

<sup>\*</sup> not elsewhere classified Derived from reference 16

TABLE VIII-19

CHAIN SAW ACCIDENTS BY ACTIVITY OF INJURED WORKER,
LOGGING, 1970 (CALIFORNIA)

Activity	No. of Injuries	Percentage
Falling tree	63	39.9
Limbing, trimming tree	42	26.6
Bucking log	34	21.5
ifting, lowering, carrying saw	5	3.1
hinning	5	3.1
rushing out	3	1.9
Other or activity not stated	6	3.8
Total	158	99.9*

<sup>\*</sup> Not 100% due to rounding Derived from reference 16

TABLE VIII-20

MAINE LOGGING INJURIES, 1972
ANALYSIS OF MAJOR INJURY SOURCES

	No. of Powered Hand Tool Injuries*	Percent of Total	No. of Plant, Tree and Vegetation Injuries**	Percent of Total
Type				
Struck by	170	87.3	157	78.5
Struck against	9	4.6	6	3.0
Rubbed/abraided	7	3.6	4	2.0
Overexertion	3	1.5	13	6.5
Fall	2	1.0	14	7.0
Caught in, under, betwe		•5	5	2.5
All others	3	1.5	1	.5
Total	195	100.0	200	100.0
lature				
Cut, laceration, punctu	re 184	94.5	27	13.5
Contusion, crushing, br	uise 5	2.5	65	32.5
Fracture	3	1.5	36	18.0
Sprains, strains	3	1.5	33	16.5
Amputation	-	-	1	•5
Concussion	-	-	4	2.0
Hernia, rupture	-	-	2	1.0
All others	~	-	32	16.0
Total	195	100.0	200	100.0
Body part				
Upper extremitites	117	60.4	11	5.5
Lower extremities	61	31.0	49	24.5
Trunk	10	5.0	62	31.0
Head	6	3.1	58	29.0
Multiple parts	1	•5	10	5.0
Neck	-	-	9	4.5
All others	_	-	1	0.5
Total	195*	100.0	200**	100.0

<sup>\*</sup> Accounted for 26% of all logging injuries \*\* Accounted for 27% of all logging injuries

TABLE VIII-21

QUEBEC LOGGING SAFETY ASSOCIATION INC.

	1971	1972	1973	
Accidents due to				
mechanical saw	251	(34%) 209	(30%) 320	(31%)
Mechanical saw injuries				
due to kickback	221	(88%) 185	(89%) 295	(92%)
Parts of body injured				
from mechanical saws				
Arms	25	26	46	
Elbows	1	1	1	
Wrists	5	1	4	
Hands	53	51	65	
Fingers	63	42	67	
Thighs, legs, & knees	63	54	90	
Feet	15	14	12	
Toes	2	3	5	
Ankles	_	i	_	
Skull	2	_	3	
Face	6	6	5	
Torso	1	4	8	
Multiple	15	6	14	
	251	209	320	
Type of work				
Felling	31	34	61	
Branching	113	92	124	
Bucking	60	45	87	
Clearing	11	9	20	
Piling	1	_	1	
Filing	2		1	
Skidding	2	1	1	
Repairing	_	2	_	
Other operations	1	2	1	
operations	*	2	1	
	$\overline{221}$	185	295	
Injuries due to burns	2	2	4	
Total number of	معويه.	•		
accidents reported	731	689	1,043	

From (DV Myles, written communication, January 1975)

TABLE VIII-22

#### FLORIDA LOGGING INJURIES BY AGENT, 1974 JANUARY-SEPTEMBER

Agent	No. of Injuries		
Wheeled tractor	9		
Shovel or backhoe	2		
Hand tool, portable power tool,			
or machine	5		
Saw chain	129		
Elevation, n.e.c.*	1		
Drilling, boring turning machine,	_		
n.e.c.*	1		
Machine, n.e.c.*, linotype	6		
Cable, chain, rope	12		
Trees or Limbs	62		
Truck	18		
Furniture	8		
Lumber and timbers	76		
Pole or post	2		
Saw	1		
Saw. circular	2		
Hoisting apparatus, n.e.c.*	3		
Belt conveyers	1		
Conveyers, n.e.c.*, overhead trolley	i		
Saw, table or jump	î		
Metal object, fabricated, n.e.c.*	2		
Nail, spike or track	2		
Splinter, wood	2		
Flying particlewind blown	1		
Splinter, metal	1		
Pick or pick axe	1		
Wire not electrically charged	2		
Drill	1		
Hook, n.e.c.*	2		
Bales, boxes, containersfull	2		
	3		
or empty	6		
Brick building, block, etc Metal stock	2		
	2		
Paper loose, paper in cases,	,		
rolls, etc	4		

#### TABLE VIII-22 (CONTINUED)

### FLORIDA LOGGING INJURIES BY AGENCY, 1974 JANUARY-SEPTEMBER

Agent	No. of Injuries	
Glass, n.e.c.*	1	
Tire of wheel	5	
Pliers	1	
Wrench	2	
Drag line, crawler, crane	1	
Pipe	1	
Axe	4	
Hammer	1	
Sledge	1	
Tracked vehicle or dozer	1	
Chain hoist or chain blocks	1	
Floors	3	
Ground	15	
Ramps, runways	1	
Sidewalk	1	
Working surface, n.e.c.*	10	
Hand truck or dolly	1	
Hose and pipes	1	
Stairs or steps	1	
Skid, pallet, flat	1	
Bodily motion, n.e.c.*	10	
Temperature/pressure abnormal	3	
Gasoline	1	
Fire, flame	2	
Acids, n.e.c.*	1	
Chemicals and poisons, n.e.c.*	1	
Poisons, wood or vegetation	3	
Poison, infectious agents, n.e.c.*	1	
Infrared, ultraviolet	1	
Locomotive	1	
Grader or scraper	i	
Miscellaneous	38	
Total	485	

<sup>\*</sup> not elsewhere classified Derived from reference 17