

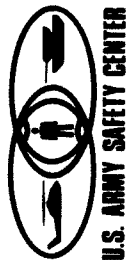
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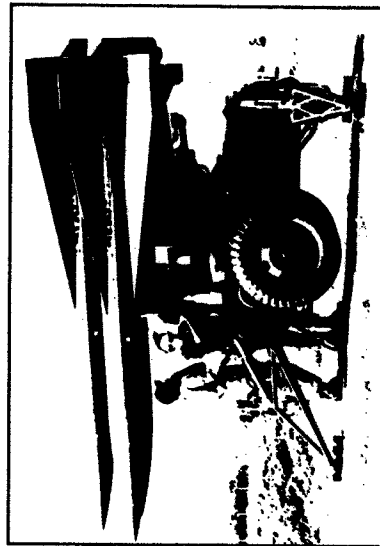


ARMY SAFETY REPORT

FY 86

Volume II

AIR DEFENSE ARTILLERY BRANCH BATTALIONS



TR 86-01/4

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PREFACE

Two Volumes. This report is the second of two volumes. Volume I is under separate cover and provides an overview of FY 86 Army-wide accident experience. It concentrates on the major types of accidents, problem areas, cause factors, and countermeasures.

Purpose. This branch report is one of seven under separate covers. These reports present the FY 86 accident experience of active Army battalions in the following branches: Aviation, Field Artillery, Infantry, Signal, Armor, Air Defense Artillery, and Transportation. It is intended that Branch Chiefs/School Commandants use this information to produce soldiers who are more aware of and prepared for accident-causing problems they will encounter after joining their units. This information will also permit field commanders to share the accident experience of other commanders having similar missions, personnel, and equipment. It is hoped that commanders will implement corrective actions before resources are lost to accidents from the same causes.

Data Notes. In the future, branch reports will be expanded to include Army National Guard and Reserve battalions, more branches, and more information specifically tailored to the accident prevention needs of each branch.

The FY 86 data included are based on reports of ground (DA Form 285) and aviation (DA Form 2397) accidents occurring during FY 86 and recorded in the Army Safety Management Information System (ASMIS) as of 7 January 1987.

Within this report is a listing of active Army battalions identified with the branch. It is these battalions whose accident experience forms the data for this report. The applicable list of battalions was provided in November 1986 to representatives of each branch, except Aviation, for verification. No verified lists had been received as of 22 January 1987.

EXECUTIVE SUMMARY

The Air Defense Artillery Branch Battalion record of conserving resources through accident prevention was a good one from FY 83 through FY 86. During this period, ground accidents showed a decreasing trend. Three types of accidents accounted for nearly all (91%) of the accidents in Air Defense Artillery Branch Battalions in FY 86. These accident types were personnel injury, Army motor vehicle, and privately owned vehicle. On-duty personnel injuries occurred primarily during combat soldiering activities. Off-duty personnel injuries occurred primarily during sports activities such as football and softball. Army motor vehicle accidents occurred primarily during operation of tactical vehicles such as 2 1/2-ton trucks and commercial utility cargo vehicles (CUCVs). Privately owned vehicle accidents occurred primarily during operation of autos/sedans and motorcycles/mopeds.

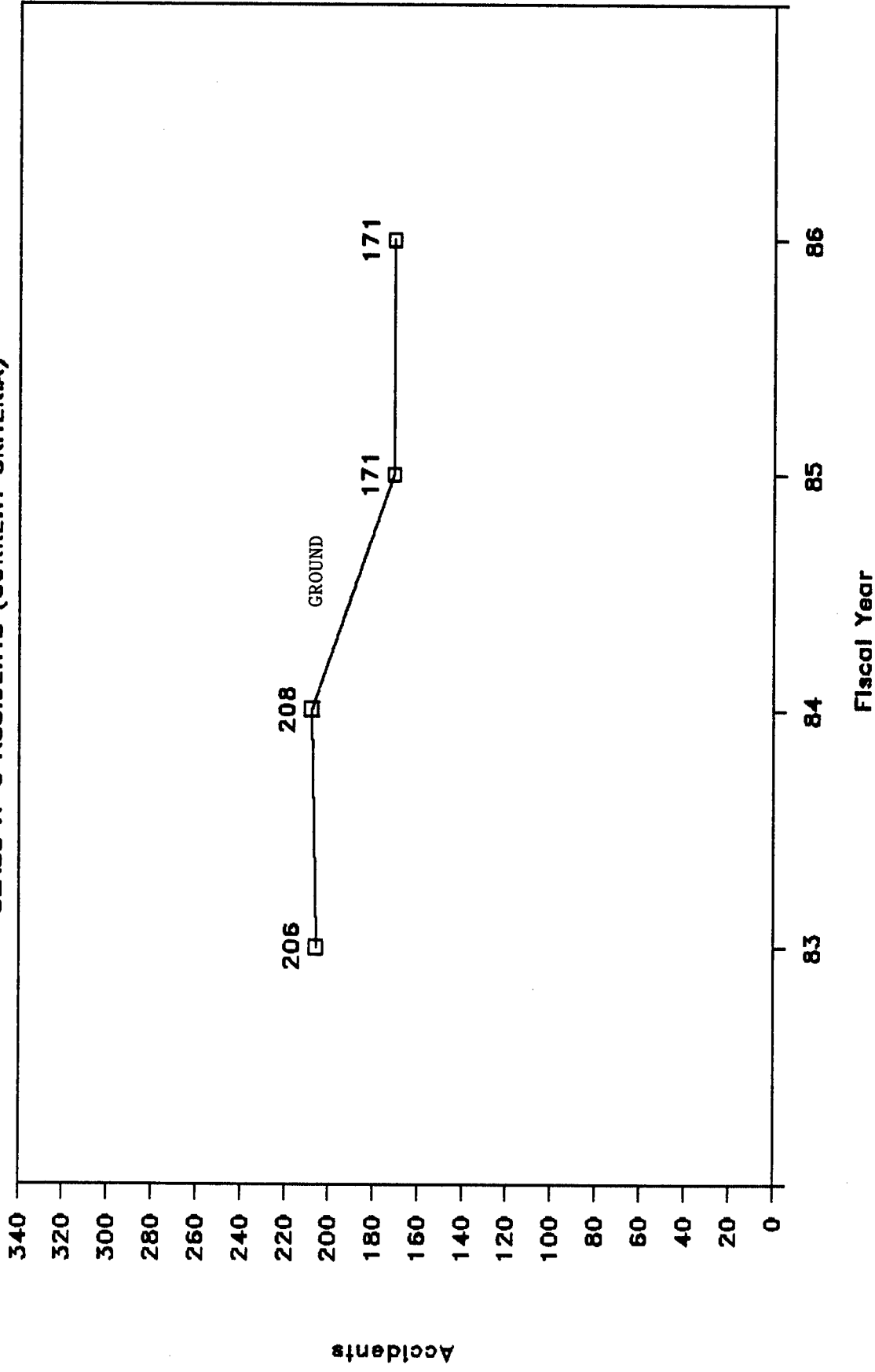
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AIR DEFENSE ARTILLERY BRANCH BATTALIONS

CLASS A-C ACCIDENTS (CURRENT CRITERIA)



NOTE: No aviation accidents.

Data as of 7 Jan 87.

Air Defense Artillery Branch battalions experienced no aviation accidents during the period FY 83-86.

During the period FY 83-86, a downward trend in overall ground Class A-C accidents was evidenced with the largest reduction in accidents occurring from FY 84 to FY 85.

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
CLASS A-C ACCIDENTS (CURRENT CRITERIA)

TYPES OF ACCIDENTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Ground</u>								
Personnel Injury	86	42	82	39	72	42	68	40
Army Motor Vehicles	57	26	45	21	45	26	45	26
Privately Owned Vehicles	57	26	72	34	46	26	44	25
Other Property Damage	1	1	2	1	1	1	7	4
Army Combat Vehicles	3	3	3	2	1	1	3	2
Fire	2	2	3	2	4	2	2	1
Other Army Vehicles	0	0	0	0	0	0	1	1
Explosives	0	0	1	1	1	1	1	1
Total	206	100	208	100	171	100	171	100
<u>Aviation</u>								
Rotary Wing	0		0		0		0	
Fixed Wing	0		0		0		0	
Total	0		0		0		0	

Data as of 7 Jan 87.

Personnel injury, Army motor vehicle, and privately owned vehicle accidents consistently account for the majority of the ground accidents.

Air Defense Artillery's decreasing trend in ground accidents is primarily due to reductions in personnel injury and privately owned vehicle accidents.

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF ON-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Combat Soldiering	25	42	20	35	12	28	13	35
Maintenance/Repair/Serviceing	3	5	7	12	5	12	5	13
Sports	6	10	3	5	6	14	4	11
Passenger	3	5	2	4	4	10	4	11
Human Locomotion	4	6	8	14	2	5	4	11
Soldiering	2	3	3	5	1	2	2	5
Physical Training	1	2	5	8	1	2	2	5
Weapons Handling	1	2	0	0	2	5	1	3
Security/Law Enforcement	0	0	0	0	0	0	1	3
Handling Vehicle/Vessel	2	3	1	2	1	2	1	3
Communications	0	0	1	2	0	0	0	0
Education	0	0	0	0	1	2	0	0
Material Handling	11	18	3	5	3	7	0	0
Food/Drink Preparation	1	2	0	0	3	7	0	0
Supervisory	0	0	2	4	1	2	0	0
Horseplay	1	2	0	0	0	0	0	0
Personal Hygiene	0	0	2	4	1	2	0	0
Total	60	100	57	100	43	100	37	100

Data as of 7 Jan 87.

A decreasing trend in on-duty personnel injuries is the primary reason for the decreasing trend in personnel injury accidents.

The decreasing trend in on-duty personnel injuries is primarily due to reductions in the combat soldiering and material handling activities.

Five types of activities consistently account for the majority of the on-duty personnel injuries. The activities are: combat soldiering, maintenance/repair/servicing, sports, passenger, and human locomotion.

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF ON-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ON-DUTY COMBAT SOLDIERING	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Tactical Parachuting	19	76	12	60	6	50	6	46
Infiltrating/Assaulting	0	0	1	5	0	0	2	15
Camouflaging/Concealment	2	8	0	0	2	17	1	8
Slide for Life/Rope Bridge	0	0	0	0	0	0	1	8
Patrolling/Reconnoitering	1	4	0	0	1	8	0	0
Tactical Rappeling	1	4	0	0	1	8	0	0
Hand-to-Hand Combat	1	4	0	0	0	0	0	0
Skiing/Snow Shoes	1	4	1	5	0	0	0	0
MOPP, NBC	0	0	1	5	0	0	0	0
Unspecified Combat Soldiering	0	0	5	25	2	17	3	23
Total	25	100	20	100	12	100	13	100

Data as of 7 Jan 87.

There is a decreasing trend in on-duty combat soldiering injuries. This is primarily due to reductions in tactical parachuting injuries.

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS

ACTIVITY OF OFF-DUTY INJURED PERSON	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Sports	12	44	14	56	10	34	14	46
Human Locomotion	8	29	6	24	11	37	9	29
Material Handling	2	7	0	0	1	3	2	7
Weapons Handling	0	0	0	0	1	3	1	3
Food/Drink Preparation	0	0	1	4	0	0	1	3
Passenger	1	4	0	0	0	0	1	3
Horseplay	1	4	1	4	1	3	1	3
Bystanding/Spectating	0	0	0	0	1	3	1	3
Personal Hygiene	1	4	1	4	2	7	1	3
Handling Vehicle/Vessel	0	0	0	0	1	3	0	0
Maintenance/Repair/Servicing	1	4	1	4	2	7	0	0
Janitorial/Housekeeping	1	4	1	4	0	0	0	0
Total	27	100	25	100	30	100	31	100

Data as of 7 Jan 87.

Sports was the largest contributor to off-duty personnel injuries in FY 86, increasing 40% over FY 85. Human locomotion injuries decreased 18% from FY 85 to FY 86.

**AIR DEFENSE ARTILLERY BRANCH BATTALIONS
ACTIVITIES OF OFF-DUTY PERSONNEL INJURED IN
PERSONNEL INJURY TYPE ACCIDENTS**

OFF-DUTY SPORTS	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Touch Football	0	0	0	0	2	20	3	22
Softball	2	17	3	22	1	10	2	14
Basketball	1	8	3	22	3	30	2	14
Tackle Football	2	17	0	0	1	10	2	14
Swimming	0	0	1	7	2	20	1	7
Diving	1	8	0	0	0	0	1	7
Equestrian	0	0	1	7	0	0	1	7
Skating/Skate Boarding	0	0	0	0	0	0	1	7
Racquetball/Paddle Ball	0	0	1	7	0	0	0	0
Tennis	0	0	0	0	1	10	0	0
Baseball	1	8	0	0	0	0	0	0
Rugby	1	8	0	0	0	0	0	0
Wrestling	1	8	0	0	0	0	0	0
Rodeoing	0	0	1	7	0	0	0	0
Snow Skiing	0	0	2	14	0	0	0	0
Hang Gliding	0	0	1	7	0	0	0	0
Frisbee	0	0	1	7	0	0	0	0
Mountain/Rock Climbing	2	17	0	0	0	0	0	0
Unspecified Sports	1	8	0	0	0	0	1	7
Total	12	100	14	100	10	100	14	100

Data as of 7 Jan 87.

The largest contributors to off-duty sports injuries in FY 86 were touch football (injuries = 3), softball (injuries = 2), basketball (injuries = 2), and tackle football (injuries = 2).

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
ARMY MOTOR VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
<u>Tactical</u>								
2 1/2-Ton Trucks	10	18	9	20	13	29	13	29
CUCV	0	0	1	2	1	2	10	23
5-Ton Trucks	7	12	4	9	4	9	6	13
1/4-Ton Trucks	14	24	8	18	6	13	4	9
Gamma Goat	5	8	4	9	2	4	2	4
Tactical Trailers	1	2	3	7	1	2	1	2
M880/890 Trucks	9	16	4	9	7	15	0	0
Other Tactical Vehicles	2	4	2	4	5	11	0	0
<u>Commercial</u>								
Bus	2	4	0	0	1	2	3	7
Van	5	8	3	7	3	7	3	7
Sedan/Station Wagon	0	0	0	0	1	2	1	2
Over 2-Ton Trucks	1	2	2	4	0	0	1	2
Contractor Vehicles	0	0	0	0	0	0	1	2
1/4 - 3/4-Ton Trucks	1	2	3	7	1	2	0	0
Trailer	0	0	0	0	1	2	0	0
Other Commercial Vehicles	0	0	2	4	0	0	0	0
Total	57	100	45	100	46	100	45	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

2 1/2-ton trucks were the most frequent primary vehicle for both FY 85 and FY 86. Accidents involving the CUCV increased ten-fold in FY 86 compared to FY 85. A one hundred percent reduction was experienced in accidents involving M880/890 trucks in FY 86 compared to FY 85.

AIR DEFENSE ARTILLERY BRANCH BATTALIONS
CLASS A-C GROUND ACCIDENTS (CURRENT CRITERIA)
PRIVATELY OWNED VEHICLE ACCIDENTS

PRIMARY VEHICLE*	FY 83		FY 84		FY 85		FY 86	
	n	%	n	%	n	%	n	%
Auto/Sedan	29	51	47	65	27	59	26	59
Motorcycle/Moped	19	33	14	19	13	28	4	9
Bicycle	1	2	2	3	1	2	2	5
Trains	0	0	0	0	0	0	1	2
Bus	1	2	0	0	0	0	0	0
Truck Tractor	0	0	1	1	0	0	0	0
Truck	0	0	1	1	0	0	0	0
Van	0	0	0	0	1	2	0	0
Other POV	1	2	3	5	3	7	3	7
Unreported	6	10	4	6	1	2	8	18
Total	57	100	72	100	46	100	44	100

*In multiple vehicle accidents, the primary vehicle is the one most at fault, e.g., through driver error or materiel failure.

Data as of 7 Jan 87.

Privately owned vehicle accidents decreased 14% from FY 85 to FY 86.

Autos/sedans were the primary vehicle in the majority of privately owned vehicle accidents for FY 85 and FY 86. Motorcycles/mopeds were the second most frequent primary vehicle and decreased 69% from FY 85 to FY 86.

Air Defense Artillery Branch Battalion UICs

WD2VAA	2/62	AD
WH15AA	1/1	AD
WAVXAA	3/7	AD
WH18AA	2/2	AD
WAWNAA	1/65	AD
WAWYAA	1/43	AD
W8A531	OPCTN	AD
WEZFAA	3/52	AD
WH1ZAA	3/4	AD
WAWZAA	2/43	AD
WAWUAA	1/4	AD
WAW6AA	3/59	AD
WHU9AA	7/7	AD
WOOQA1	HHQ N	AD
WGMRAA	2/60	AD
WAXFAA	3/68	AD
WAWPAA	1/67	AD
WH19AA	2/3	AD
WH10AA	1/3	AD
WH2CAA	1/7	AD
WD2UAA	6/3	AD
WAC2AA	4/3	AD
WAVOAA	6/52	AD
WAV1AA	6/56	AD
WD2TAA	1/51	AD
WGLRAA	3/60	AD