

International Notes

Occupational Mercury Poisoning – Nicaragua

In May 1980, the detection of inorganic mercury in drinking water in Managua, Nicaragua, led to the discovery that a chemical plant had been discharging mercury into Lake Managua, the source of the city's water supply. An estimated 40 tons of mercury has been discharged, at increasing annual rates, into air and water during the 12 years of the plant's operation; the rate of discharge in 1980 was approximately 50 pounds per day. On further investigation, a major outbreak of occupational mercury poisoning was discovered in workers at the plant.

The plant, partially owned and managed by a firm based in the United States, manufactures chlorine gas and sodium hydroxide (caustic soda) from sodium chloride by the chloralkali process; this process involves the separation of sodium from chlorine by direct electric current in the presence of a mercury cathode (1). Inspection of the plant showed visible contamination with metallic mercury, including pools of mercury on the floor of several work areas. Since metallic mercury is highly volatile and vaporizes readily at room temperatures, there was also inhalation exposure. Workers had been provided no personal protective equipment and had not been informed of the hazards of this element.

Physical examinations were conducted on all 152 workers at the plant. Fifty-six (37%) were found to have clinical evidence of mercury intoxication with central nervous system (CNS) damage. Initially, the criteria of such intoxication were the presence of specific signs and symptoms (tremor, emotional lability/irritability, metallic taste, and gingivitis) plus the presence of one or more non-specific symptoms (insomnia, memory deficit, inability to concentrate, depression, dysarthria, diaphoresis, chills, cramps, weakness, and sialorrhea). Fifteen other workers (10%) were found to have at least 3 specific and 2 non-specific symptoms.

Fifty-four of the initial 56 workers with CNS signs or symptoms were examined further by a neurologist. Forty-five had objective tremor, 45 memory deficit, 45 difficulty in concentration, and 52 paresthesias. One had undergone hospitalization for treatment of psychiatric symptoms; later, he and 3 co-workers had been removed from the plant by health officials following the development of mercurialism.

Epidemiologic investigation indicated that the highest prevalence of mercurialism had occurred in "mercury cell" (vat) workers (12 of 16, 75%) followed by process operators (16 of 33, 48%), and maintenance workers (23 of 62, 37%); in office workers, supervisors, and others the prevalence rate was 12% (5 of 41). The interval from beginning of employment to onset of symptoms ranged from 7 months to 7 years.

As a result of this investigation, Nicaraguan authorities have ordered (1) lowering of

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mercury levels in the air in the plant; (2) improved maintenance; (3) construction of eating, showering, and changing facilities for workers; (4) provision of work clothes; and (5) periodic biologic monitoring of workers.

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Editorial Note: Outbreaks of mercurialism are seldom seen today. Chronic mercury poisoning occurs in 2 distinct clinical forms. Inorganic or elemental mercury typically produces a syndrome of dermatitis, gingivitis, stomatitis, and tremor together with CNS dysfunction (2). The CNS manifestations—including irritability, pathologic shyness, and the loss of attention span, memory, and intellect—are referred to as erethism (3). Nephrosis may occasionally occur (4). As in the present outbreak, inorganic mercurialism is almost always an occupational disease, and may be seen in such occupationally exposed groups as miners, mirror makers, mercury battery makers, jewelers, photographers, dentists, and dental assistants.

Poisoning by the organic compounds of mercury produces an almost purely neurologic illness (5). Early symptoms include paresthesias, numbness, and other manifestations of sensory neuropathy. With continued exposure, the syndrome progresses to a triad of dysarthria, ataxia, and visual field constriction (6). Organic mercury poisoning has occurred in occupationally exposed groups such as pesticide formulators and seed handlers (7).

Much greater attention has, however, been directed to the widespread outbreaks of organic mercury poisoning that have occurred as the result of the consumption of mercury-contaminated foodstuffs (8). Major epidemics have occurred in Minamata Bay, Japan, where exposure resulted from ingestion of contaminated shellfish (9), and in Iraq (10), Pakistan (11), and Guatemala (12), where exposure was caused by consumption of seed grain that had been treated with mercurial fungicides. In 1969, an episode occurred in the United States among members of a New Mexico family who ate pork from hogs that had been fed mercury-treated seed grain (13). Lake Managua serves as a major source of fish for Managua residents, and there is concern that a syndrome similar to that which occurred in Minamata may develop among consumers of fish from the lake. Additional investigations are underway to evaluate possible organic mercury intake in persons consuming water or fish from Lake Managua.

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Epidemiologic Notes and Reports

Formaldehyde Exposure at a Mortuary Science Embalming Laboratory -- Ohio

In October 1979, a health hazard evaluation was conducted by the National Institute for Occupational Safety and Health (NIOSH) at an embalming laboratory at an Ohio college of mortuary science to determine if chemicals used during embalming operations were presenting a potential exposure problem. The request was prompted by the early-disability retirement of a 30-year-old embalming instructor, who had developed asthmatic bronchitis after 5 years of laboratory exposure.

Medical histories of 4 instructors who were working in the laboratory at the time of the investigation revealed that all gave positive histories of allergy. All were exposed to embalming fluids consisting of formaldehyde, phenol, unspecified preservatives, ketone, and ester solvents. This exposure was on a daily basis for periods ranging from 3 to 12 years. All noted symptoms of burning eyes and nose, dryness of mouth and throat, cough, headache, and lacrimation while using these chemicals.

To evaluate environmental exposures, air samples were taken for phenol and formaldehyde determination during a 2-day period. One the first day, when a greater-than-usual number of bodies were embalmed, the ventilation system was not in operation (not an unusual condition), and airborne contaminants accumulated. The second day's embalmings were performed while the exhaust system was in operation.

Environmental sampling indicated the phenol concentrations were below the limits of detection (0.4 mg/sample). Formaldehyde, on the other hand, was found to exceed the current Occupational Safety and Health Administration (OSHA) standard of 3 parts per million (ppm) (1) in 2 samples (3.93 and 3.65) on the first day of evaluation. All sample concentrations exceeded the NIOSH-recommended ceiling of 1.0 ppm. On the second day of the evaluation, with ventilation and exhaust systems working properly, concentrations in all samples were within the NIOSH-recommended and OSHA standards.

Reported by the Hazard Evaluations and Technical Assistance Br, Div of Surveillance, Hazard Evaluations, and Field Studies, NIOSH, CDC.

Editorial Note: Formaldehyde gas may cause severe irritation to the mucous membranes of the respiratory tract and eyes. Sensory irritation (itching of the eyes, dry and sore throat, increased thirst, disturbed sleep) has been reported in workers in paper-processing plants at concentrations of 0.9 to 1.6 ppm (2). In another study, intense irritation of the eyes, nose, and throat was reported at levels ranging from 0.13 to 0.45 ppm (3). More recent studies conducted in funeral homes indicated that concentrations of airborne formaldehyde from 0.25 to 1.39 ppm evoked complaints of upper respiratory tract and eye irritation and headache among embalmers (4). The levels at which serious inflammation of the bronchi and lower respiratory tract would occur in humans are unknown;

Formaldehyde Exposure – Continued

inhalation of high levels, however, has caused chemical pneumonitis, pulmonary edema, and death.

Formaldehyde has recently been found to produce a high incidence of nasopharyngeal cancer in laboratory rats (5). Present recommendations and standards for exposure to this chemical are not based on these carcinogenicity data. NIOSH is currently initiating an occupational epidemiologic study to help evaluate the human carcinogenicity rate due to formaldehyde exposure.

The environmental results of this study demonstrate the potential for overexposure to formaldehyde for embalmers when proper ventilation and exhaust systems are not operating. Based on the results of this evaluation, and on the irritant and carcinogenic effects of formaldehyde, NIOSH has recommended that embalmers, pathologists, and others using this substance be aware of the need for proper ventilation, protective clothing, personal protective equipment, and periodic or continuous monitoring of the airborne concentrations of formaldehyde in the workplace.

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	33rd WE	EK ENDING		CUMU	LATIVE, FIRST 33	WEEKS
DISEASE	August 16, 1980	August 18, 1979	MEDIAN 1975-1979	August 16, 1980	August 18, 1979	MEDIAN 1975-1979
Aseptic meningitis	270	397	207	2,888	3,215	2,285
Brucellosis	10	6	6	125	97	1 36
Chickenpox	392	336	308	155,164	170,637	149,452
Diphtheria	-	-	1	3	7	59
Encephalitis: Primary (arthropod borne & unspec.)	22	52	50	430	497	517
Post-infectious	5	4	5	141	170	170
Hepatitis, Viral: Type B	387	286	286	10,825	9,087	9,444
Type A	576	582	600	17,009	18,587	19,584
Type unspecified	266	222	168	7,519	6,366	5,341
Malaria	52	19	17	1,213	419	339
Measles (rubeola)	54	196	157	12,684	11,789	23,371
Meningococcel infections: Total	33	33	28	1,813	1,870	1,210
Civilian	33	33	28	1,806	1.852	1,202
Military		-	-	7	18	18
Mumps	78	84	112	6,933	10,914	15,624
Pertussis	54	44	44	912	872	872
Ruballa (German measies)	32	65	65	3,196	10,513	14,606
Tetenus	2	1	2	41	40	42
Tuberculosis	558	555	628	17,383	17,638	19,135
Tularemia	6	12	3	114	129	89
Typhoid fever	15	15	11	274	297	250
Typhus fever, tick-borne (Rky. Mt. spotted)	50	77	45	775	731	7 30
Venereal diseases:						
Gonorrhea: Civilian	21,031	21,139	21,139	615,121	616,951	616,951
Military	386	783	607	17,036	17,535	17,535
Syphilis, primary & secondary: Civilian	544	726	502	16,540	15,255	15,406
Military	6	4	4	200	185	190
Rabies in animals	110	124	69	4,223	3,173	1,938

TABLE I. Summary – cases of specified notifiable diseases, United States

	CUM. 1980		CUM. 1980
Anthrax Botulism (Colo. 1, Calif. 1)	38	Poliomyelitis: Total Paralytic	ः <u>6</u>
Cholera (Calif. 1) Congenital rubella syndrome Laprony (Tex. 3, Calif. 1)	43	Rables in man Trichingsia (N.J. 3)	57
Leptospirosis (Calif. 1) Plague	40	Typhus fever, flee-borne (endemic, murine),(La. 1)	44

All delayed reports will be included in the following week's cumulative totals.

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	ASEPTIC	BRU-	CHICKEN				NCEPHALI	TIS	HEPATI	IS (VIRAL			
REPORTING AREA	MENIN- GITIS	CEL- LOSIS	POX	DIPHT	HERIA	Pri	mary	Post-in- fectious	в	А	Unspecified	MAL	ARIA
	1980	1980	1980	1980	CUM. 1980	1980	1979	1980	1980	1980	1980	1980	CUM. 1980
UNITED STATES	270	10	392	-	3	22	52	5	387	576	266	52	1,213
NEW ENGLAND	20	-	50	-	-	-	-	1	15	5	11	2	76
N.H.	1	-	-	-	-	_	-	-	2	-	-	_	17
Vt.	-	_	1	-	-	-	-	-	1	2	-	-	-
Mass.	4	-	8	-	-	-	-	-	3	2	9	1	38
R.I.	12	-	1	-	-	-	-	-	1	-	-	1	
Conn.	1	-	35	-	-	-	-	L	8	1	1	-	11
MID. ATLANTIC	63	-	79	-	1	9	6	-	49	38	22	7	164
NY City	9	-	11	-		1	3	-	8	8	2	2	26
N.J.	33	_	NN	_	-	3	1	-	20	13	15	-	45
Pa.	14	-	2	-	-	5	ž	-	12	12	2	3	51
E.N. CENTRAL	22	-	145	-	1	6	24	-	35	66	13	-	59
Ind	-	-	17	-	-	-	9	-	9	8	4	-	8
III.	5	-	17			-	-	-	2	27	ว์	_	21
Mich,	14	_	30	-	1	3	7	-	17	18		-	19
Wis.	3	-	54	-	-	3	5	-	5	4	1	-	7
W.N. CENTRAL	15	3	11	-	1	2	8	1	28	20	8	2	46
lowa	-	_	5	-	-	-	-	-	10	1		-	10
Mo.	7	2	ĩ	_	ī	-	-	-	7	5	5	-	- 11
N. Dak.	-	-	ž	-	-	-	-	-	-	-	-	-	-
S. Dak.	-	-	3	-	-	-	-	-	-	1	-	-	2
Nebr. Kans.	4	1	-	-	-	1	7	1	1	8	2	-	3
& ATLANTIC	44	1	50	-	-	-	3	2	97	109	52	4	124
Del.	-	-	2	-	-	-	-	-		1	1	-	_
Md.	9	-	4	-	-	-	-	-	23	11	18	-	23
D,C. Va	-		17	-	-		-	-	16	- 6	3	4	47
W. Va	-	_	5	-	_	-	-	-	1	2	- ī	-	4
N.C.	16	-	NN	-	-	-	-	-	11	14	3	-	7
S.C.	1	-	-	-	-	-	-	-	7	1	3	-	5
Ga. Fla.	10	1	22	-	-	-	-	2	10	15 59	23	2	23
E.S. CENTRAL	67	_	6	_	-	4	4	-	13	26	1	-	10
Ky.	3	-	4	-	-	<u> </u>	i	-	3			-	2
Tenn.	6	-	NN	-	-	2	-	-	7	8	-	-	-
Ala.	37	-	1	-	-	-	3	-	3	4	1	-	6
Miss.	1	-	1	-	-	2	-	-	-	а	-	-	
W.S. CENTRAL	16	2	24	-	-	-	2	-	33	63	54	-	111
Ark.	1	1	1	-	-	-	-	-	.1		8	- 2	6
Ca. Okla		-	NN	_	-	-	-	-	11	6	4	_	12
Tex.	15	1	23	-	-	-	-	-	14	58	42	-	53
MOUNTAIN	2	-	14	-	-	-	2	-	8	34	13	3	49
Mont	-	-	-	-	-	-	-	-	-	-	-	-	
Idaho	-	-	-	-	-	-	-	_	-	-	-	-	2
Colo	-	_	13	-	-	-	2		3	28	8	1	25
N. Mex.	_	-	-	-	-	-	-	-	-	-	_	ī	3
Ariz.	-	-	NN	-	-	-	-	-	-	-	1	1	12
Utah	-	-	1	-	-	-	-	-	3	5	3	-	-
Nev.	1	-	-	-	-	-	-	-	2	1	1	-	•
PACIFIC	41	4	13	-	-	1	3	1	109	195	92	34	574
Wash.	25	-	7	-	-	-	-	-	2	3	-	2	42
Calif	3		-	-	-	-	2		103	173	86	28	481
Alaska	1	-	ī	-		-	-	-	-		2	1	6
Hawaii	=	-	ŝ	-	-	-		-	-	1	-	-	15
G									ы МА	NA	NA	NA	3
P.R	NA	N A	NA	NA		NA NA	-	-	NA	NA	NA	NA	3
V.I.	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	-
Pac. Trust Terr.	NA	NA	NA	NA	-	NA			NA	NA	NA	NA	

TABLE III. Cases of specified notifiable diseases, United States, weeks ending August 16, 1980, and August 18, 1979 (33rd week)

NN: Not notifiable. NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

	N	IEASLES (RU	BEOLA)	MENING	GCOCCAL IN	FECTIONS	'	NUMPS	PERTUSSIS	RUB	ELLA	TETANUS
ACTONING ANCA	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	1980	1980	CUM. 1980	CUM. 1980
UNITED STATES	54	12,684	11,789	33	1,813	1,870	78	6,933	54	32	3,196	41
NEW ENGLAND	1	660	287	2	102	96	2	546	2	3	207	1
Maine	-	33	17	-	5	5	-	284	-	-	68	1
N.H.	-	322	33	1	7	9	-	19	-	-	34	-
VL Maaa		226	118		13		-	9	-	-	1	_
RI	-	22	107	-	34	31	2	22	1		()	-
Conn.	-	22	4	-	36	38	-	94	1	2	18	-
MID. ATLANTIC	23	3,741	1,422	5	328	281	12	774	2	5	519	6
Upstate N.Y.	2	678	595	L	107	103	1	100	1	-	182	1
N.Y. City		1,165	728	1	82	66	3	86	1	1	91	2
Pa.	10	1,073	44	2	72	43	8	494	-	1	146	3
E.N. CENTRAL	10	2.381	3.055	2	210	190	14	2.655	11	а	772	2
Ohio	2	373	253	-	75	75	2	1,112	5	-	- 4	ī
Ind.	-	90	193	-	35	39	1	108	4	4	325	-
111.	-	321	1,362	-	34	8	1	350	-	-	159	-
Mich.	3	234	814	2	53	50	1	793	2	3	126	1
WIS.	5	1,363	433	-	13	18	9	292	-	1	158	-
W.N. CENTRAL	1	1,309	1,712	-	66	60	1	248	6	-	221	4
Minn.	1	1,095	1,205	-	20	10	1	23	2	-	51	2
Mo.	-		409	-	34	21	-	39	-		8	1
N. Dak.	_	-	20	-	- 1	1	-	4		-	ŝ	-
S. Dak.	-	-	-2	-	4	4	-	ż	-	-	2	-
Nebr.	-	83	- E -	-	_	-	-	9	-	-	ī	-
Kans.	-	67	61	-	8	5	-	101	-	-	109	1
S. ATLANTIC	3	1,860	1,782	8	433	460	28	929	13	2	310	7
Del.	-	3	1	-	2	5	-	38	-	-	1	-
Μα. D.C.	-	1	13	1	45	40	-	515	-	-	70	1
Va.	_	300	263	2	42	66		54	ī	_	50	2
W. Va.	1	23	52	-	14	8	ī	83	_	-	22	1
N.C.	-	128	110	-	82	70	2	88	2	2	46	-
s.c.	-	157	150	1	53	56	1	203	-	-	51	2
Ga.	-	799	423		72	67		1	6	-	-	-
	2	379	170	•	122	140	10	140	•	-	09	1
E.S. GENTRAL	1	338	194	2	169	139	2	839	1	1	- 79	5
Tenn.	-	179	50	-	55	29	_	742	2	-	10	1
Ala.	-	22	83	-	45	36	-	15	-	-	3	î
Miss.	-	84	24	1	27	36	1	58	-	-	2	-
W.S. CENTRAL	2	914	882	4	194	296	1	243	9	2	116	10
Ark.	-	13	7	1	17	24	-	20	1	-	- 4	1
La.	-	13	245	1	72	115	-	65	2	-	10	2
Okia. Tev	1	741	22	-	17	25		169	-	-	4	-
	•	454	304	4	60	132	1	100	° 6	2	98	4
Mont.	- 2	*30	51		2	12	-	63	,	-	41	-
Idaho	-	-	18	_	4		_	15	_	_	1.8	-
Wyo.	-	-	36	-	2	ĩ	-	-	-	-	ĩ	-
Colo.	_	23	59	2	15	5	1	47	-	-	9	-
N. Mex.	-	9	38	1	8	4	-	-	3	-	5	-
Ariz.	4	367	72	2	12	31	2	32	2	-	30	-
Nev.	Ē	47 8	17	ī	15	8 11	-	26 9	-	2	24	-
PACIFIC		1 035	1 161		150	375		617				•
Wash.	-	174	2,171	1	250	213	12	317			91.6	8
Oreg.	- 1		58	-	41	24	,	60	-	_	50	_
Calif.	9	840	889	3	153	194	10	307	3	11	703	8
Alaska	-	5	17	ī	7	5	-	ii	-	-	10	-
Hawaii	-	6	63	-		8	-	15	-	-	5	-
Guam	NA	5	10	-	1	1	NA	9	NA	NA	-	-
P.R.	NA	98	321	-	9	3	NA	116	NA	NA	14	7
V.I.	NΔ	6	5	-	1	3	NA	2	NA	NA	-	-
Pac. Trust Terr.	NA	6	7	-	-	1	NA	14	NA	NA	1	-

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending August 16, 1980, and August 18, 1979 (33rd week)

NA: Not available.

All delayed reports and corrections will be included in the following week's cumulative totals.

Guam P.R. V.I.

MMWR

REPORTING AREA TUBERCULOSIS FAVER ISSN 1280 CUM. (TREA.barner) CUM. (TREA.barner) CUM. (SIGUE) CUM. (SIGUE) <			·	THE	TVO		ТҮРНИ	S FEVER		VENERI	EAL DISEASES (Civilian)			RABIES
	REPORTING AREA	TUB	ERCULOSIS	REMIA	FE	VER	(Tick (Rl	·borne) VISF)		GONORRHEA	222	SY	SYPHILIS (Pri. & Sec.)		(in Animals)
UNITED STATES 55 8 17, 383 114 15 274 50 775 21, 031 615, 121 616, 951 544 16, 951 NEW ENGLAND 24 500 2 - 7 - 9 525 15, 155 15, 476 8 360 NH, - 10 - - - - 37 556 561 - VL - 18 - - - - 313 360 - Max. 14 269 1 - 4 - 5 200 6, 367 6, 197 8 24 Conn. 5 111 - 1 2 202 6, 6, 224 66, 429 66, 420 60, 420 63 7 7 24 405 12, 433 100 12 23 24 64, 46, 402 33 1, 52 101 12, 257 11, 196 12 23 24 64, 677 5, 64, 64,		1980	CUM. 1980	CUM. 1980	1980	CUM. 1980	1980	CUM. 1980	1980	CUM. 1980	CUM. 1979	1980	CUM. 1980	CUM. 1979	CUM. 1980
NEW ENGLAND 24 500 2 - 7 - 9 525 15,355 15,476 8 388 Mine 4 30 - 1 - 1 20 856 15,01 - N.H. 4 30 - 1 - 1 37 856 1,07 8 24 Mas. 14 269 1 - 4 - 5 209 6,367 6,197 8 24 RI, 1 56 - 1 1 - 2 256 991 1,286 - 1 1 Conn 5 111 1 - 1 - 2 202 6,921 5,981 - 11 MID. ATLANTIC 119 2,830 1 2 55 1 32 2,035 66,424 66,424 66,429 96 2,22 Uotate N, Y GUN 34 997 1 1 24 - 2 660 12,443 10,683 15 25 N,Y GUN 34 997 1 1 24 - 2 660 12,443 10,683 15 25 N,Y GUN 34 997 1 1 24 - 2 660 12,443 10,683 15 25 R, 1 7 663 - 1 12 - 9 698 116,570 11,986 15 2 23 EN.CENTRAL 65 2,467 1 5 - 10 1,220 25,008 26,135 3 23 CM.CENTRAL 65 2,467 1 5 - 10 1,220 25,008 26,135 3 23 CM.CENTRAL 15 668 20 1 21 1 31 4 - 2 - 3 9,11 21,475 22,436 - 24 Wit. 5 142 2 - 1 39 11 21,475 22,436 - 24 Wit. 5 142 2 - 1 314 8,999 8,364 22 39 N.V.CENTRAL 15 668 20 1 21 7 4 21,227 28,752 30,129 7 20 Mino. 4 125 1 1 3 176 4,677 5,004 1 7 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,4873 3 10 Mino. 4 125 1 1 3 176 4,4677 5,004 1 7 Noto. 5 224 1 - 1 12 4 2,151 2,448 - 1 Mino. 4 125 1 1 13 186 2,958 12,719 12,4873 3 10 Mino. 5 298 17 - 15 6 29 585 12,719 12,488 - 1 Mino. 4 125 1 1 13 176 4,467 5,004 1 7 Noto. 5 224 3 - 1 - 19 400 5,008 - Noto. 5 298 17 - 15 6 29 585 12,719 12,488 - 1 Mino. 4 125 1 1 3 176 4,467 5,004 1 7 Noto. 5 224 3 - 1 - 19 400 5,008 - Noto. 5 224 3 - 1 - 19 400 5,008 - Noto. 5 224 3 - 1 - 19 400 5,008 - Noto. 5 224 3 18 13 - 6 - 18,468 50,004 52,861 9 N,C. 286 177 - 15 6 29 585 12,719 12,488 - 1 Mino. 1 324 2 - 1 4 125 11,468 50,004 52,861 35 17,52 Mino. 11 341 2 - 1 12 10 103 2,558 10,005 52,120 119 2,300 Mono. 11 23	UNITED STATES	558	17,383	114	15	274	50	775	21,031	615,121	616,951	544	16,540	15,255	4,223
		24	500	2	-	7	-	9	525	15,355	15,476	8	386	297	39
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	N.H.	4	38	-	-	1	_	-	20	882	1,091	-	4	16	18
	Vt.		10	-	-		_	-	1	338	360	_	5	1	
The second seco	Mass.	14	269	1	-	4	-	5	209	6,367	6,197	8	247	166	E
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Conn	1	54	-	-	1	-	2	56	991	1,286	-	19	9	-
		5	111	1	-	1	-	2	202	6,221	5,981	-	110	98	
Upstate N.Y. 37 572 8 - 12 406 12,436 10,643 17 20 N.Y. City 34 997 1 1 24 - 2 640 25,161 26,516 55 1,56 N.J. 31 598 - 1 11 1 9 251 12,257 11,986 12 28 EN.CENTRAL 65 2,457 1 - 21 - 22 3,766 94,586 94,586 94,802 33 1,52 Chic 24 451 - 5 - 10 1,220 25,008 26,135 3 23 Hin. 27 885 - 9 - 6 1,098 29,832 29,034 25 87 Mich 725 1 - 5 - 3 911 21,475 22,436 - 24 With. 5 142 - 2 - 1 314 8,999 8,775 4 5 Min. 27 885 1 - 9 - 6 1,098 29,832 29,034 25 87 Mich 725 1 - 5 - 3 911 21,475 22,436 - 24 With. CENTRAL 15 648 20 1 21 7 42 1,227 28,752 30,129 7 20 Min. 2 58 1 - 1 - 1 - 176 4,677 5,040 1 7 Min. 2 58 1 - 1 - 1 - 1 117 3,098 3,682 3 1 M.N. CENTRAL 15 648 20 1 21 7 42 1,227 28,752 30,129 7 20 Min. 2 58 1 - 1 - 1 - 1 117 3,098 3,682 3 1 M.N. Dak 5 298 17 - 15 6 29 585 12,719 12,267 3 100 S.Dak 1 32 1 - 2 16 46,677 5,040 1 7 Mat. 3 75 1 - 1 147 3,098 3,682 3 1 Mat. 3 75 1 - 1 24 64 9,010 - Naby 237 1 1 - 1 147 3,098 3,682 3 1 Mat. 3 75 1 - 9 217 4,728 4,911 - Kant. 3 75 1 - 4 10 1 2,253 2,006 - Kant. 3 75 1 - 4 10 1 2,253 2,006 - Kant. 3 75 1 - 1 134 2,151 2,468 - 1017 3,688 N. 24 144 3 - 2 103 2,054 2,070 - 1 1 M.C. 28 691 3 - 2 13 22 507 5,246 153,411 150,281 107 3,68 Va. 10 412 4 14 66 630 13,805 14,264 9 35 16 28 Va. 10 412 4 14 56 643 0 13,805 14,264 9 35 16 28 Va. 10 412 4 14 56 6430 13,805 14,264 9 35 1,25 Min. 27 57 1 2 - 2 1 5 77 NA 15,503 18,398 NA 27 1,10 M.C. 28 691 3 - 2 11 219 702 21,879 21,407 6 26 Va. 10 412 4 14 55 18,452 16,495 14,407 5 21 Ga. 15 511 4 2 1 6 228 7,421 6,495 14,221 10 41 M.S.CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ky. 1 1 341 2 1 4 72 4 41,251 12 8 28 Ky. 1 1 341 2 1 4 72 4 407 6,36 1,571 8 29,658 1,55 77 Mas. 8 275 2 1 4 - 8 355 9,995 11,421 10 41 M.S.CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 5 Mas. 8 275 2 1 4 - 1 20 10 200 14,601 15,712 8 28 Mas. 1 155 14 4 - 1 - 3 59 901 1,221 - 10 Mas. 3 195 32 - 4 - 14 216 6,055 2,861 35 1,35 5 T	MID. ATLANTIC	119	2.830	1	2	55	1	32	2.035	66,424	66,429	96	2,355	2,314	46
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Upstate N.Y.	37	572	-	-	8	-	12	406	12,436	10,843	17	202	158	22
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	N.Y. City	34	997	L	1	24	-	2	680	25,161	26,516	55	1,542	1,582	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ra.	31	598	-	1	11	1	9	251	12,257	11,986	12	287	305	11
E.N.CENTRAL 65 2,457 1 - 21 - 22 3,766 94,586 94,580 233 1,52 3 Ind. 24 451 - 5 - 10 1,220 25,008 26,135 3 23 Ind. 27 885 9 - 6 1,098 29,822 29,034 25 87 Min. 27 885 9 - 6 1,098 29,822 29,034 25 87 Mix. 5 142 - 2 - 1 314 8,999 8,775 4 5 5 142 - 2 - 1 314 8,999 8,775 4 5 MN.CENTRAL 15 648 20 1 21 7 42 1,227 28,572 30,129 7 20 Min. 4 125 1 1 3 - 1 1 1, 3,098 3,682 3 1 Ma. 5 298 17 - 15 6 29 585 12,719 12,873 3 10 Mow 2 58 1 - 1 - 1 11 91 2,259 2,096 - Min. 5 3 1 - 2 2 6 63 1,019 - Max. 5 1 3 1 - 2 2 6 63 1,019 - Max. 5 298 17 - 1 5 6 29 585 12,719 12,873 3 10 M.Dak 1 32 1 - 2 12 6 63 1,019 - Kam. 3 75 - 1 - 9 217 4,728 4,911 - Kam. 3 75 - 1 - 1 191 2,259 2,096 - Kam. 3 75 - 2 1 1 194 2,553 1,019 - Kam. 3 75 - 2 1 1 194 2,553 1,2488 - 1 M. 2 2 58 1,019 - Kam. 3 75 - 2 1 1 194 2,553 16 28 N.V. CENTRAL 18 3,878 9 2 31 32 507 5,246 153,411 150,281 107 3,88 Md. 3 56 1 - 1 194 2,551 2,4488 - 1 Md. 3 56 1 - 1 194 2,553 18 2,488 - 1 Md. 3 56 1 - 1 2 10 46 630 13,805 14,244 9 35 Va. 5 224 3 484 10,762 9,635 16 28 Va. 5 224 3 484 10,765 29,635 16 28 N.V. 4 144 3 - 2 103 2,054 2,070 - 1 N.C. 4 1446 3 - 2 103 2,054 2,070 - 1 Fia. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 Ky. 10 412 4 14 66 630 13,805 14,028 5 2,070 - 1 Fia. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 Ky. 11 341 2 1 6 228 7,421 6,685 29 7 Tam. 10 527 6 2 41 595 18,052 18,833 15 57 Tax. 46 1,164 5 - 28 7 42 4 98 7,444 80,034 160 3,25 Fia. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 MiscENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Fia. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 MiscENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Tax. 46 1,164 5 - 28 - 16 1,877 51,005 52,120 119 2,30 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Min. 10 527 6 2 - 4 100,23 4,995 11,421 10 41 Misc 20 7 1 - 0 - 2 - 4 100 1,056 14,081 33 79 903 1,221 - 1 Now 32 2 - 3 - 1 - 1 - 1 83 4,228 3,935 1 5 PACIFIC 12 3,128		17	663	-	-	12	-	9	698	16,570	17,084	12	324	209	13
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	E.N. CENTRAL	65	2,457	1	-	21	-	22	3,766	94.586	94,802	33	1,527	2,024	644
	Ohio	24	451		-	5	-	10	1,220	25,008	26,135	3	236	395	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ina.	9	254	-	-	-	-	2	223	9,272	8.422	1	119	133	59
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mich	27	885	-	-	9	-	6	1,098	29,832	29,034	25	871	1,139	362
N.N. CENTRAL 15 648 20 1 21 7 42 1,227 28,752 30,129 7 20 Minn 4 128 1 3 - 1 - 16 46,677 5,060 1 7 20 Maa 2 58 1 - 1 - 1 17 3098 3,682 3 1 Maa 2 58 1 - 1 - 1 17 408 508 - 1 109 - 277 3 10 Nabr. - 277 1 - - 1 19 2,259 2,096 - Kam. 3 75 - 1 - 1 134 2,151 2,488 - 1 Mdd. 21 498 2 2 57 NA 15,503 18,398 NA 27 Dc. 5 224 - - 3 - 2 10 1,5763 18,398	Wis.	Ē	125	1	-	2	_	3	911	21,473	22,430	-	242	297	178
W.N. CENTRAL 15 648 20 1 21 7 42 1,227 28,752 30,129 7 20 Minn. 4 125 1 1 3 $-$ 1 - 1 17 3.098 3.682 3 1 Not 2 58 1 - 1 - 1 117 3.098 3.682 3 1 Not 5 298 17 - 15 6 29 585 12,719 12,873 3 10 Not 5 298 17 - 1 - 2 22 863 1.019 - Not 33 - 1 1 2 2 22 863 1.019 - Not 33 - 1 - 2 22 863 1.019 - Not 33 1 - 2 22 863 1.019 - Not 33 75 - 1 1 - 9 217 4.728 4.911 - SATLANTIC 118 3.878 9 2 31 32 507 5.246 153,411 150,281 107 3.688 Dal. 3 56 - 1 1 - 1 1 34 2.151 2.4488 - 1 1 Md. 21 498 2 - 2 5 57 NA 15,503 18,398 NA 27 DC. 5 224 - 3 4 84 10,762 9.635 16 28 Va. 10 412 - 4 14 66 630 13,805 14,264 9 35 N.C. 4 144 - 3 - 2 103 2.054 2.070 - 1 N.C. 4 144 - 3 - 2 103 2.054 2.070 - 1 N.C. 4 144 3 - 2 103 2.054 2.070 - 1 N.C. 4 144 3 - 2 120 661 14,695 14,081 5 21 Fa. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1.34 ES.CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,43 Fa. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1.34 ES.CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,43 Fa. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1.34 ES.CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,43 Fa. 15 511 4 2 1 6 228 7,421 6,895 2 9 7 ran. 10 527 6 2 4 1 595 18,052 18,833 15 57 Fa. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1.34 ES.CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,43 Fa. 10 527 6 2 4 1 595 18,052 18,833 15 57 Fa. 8 275 2 1 4 - 8 355 9,995 11,421 10 41 W.S.CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ja. 5 358 1 570 14,396 14,081 33 79 Okia. 7 191 15 - 3 7 51 285 7,884 7,528 - 5 Tax. 46 1,164 5 - 28 - 16 1,877 51,005 52,120 119 2,30 MOUNTAIN 4 458 17 1 1 18 - 12 905 23,924 24,554 2 39 Mont 18 4 - 1 - 3 59 903 1,221 - 2 Not 642 5 1 4 - 1 - 140 1,056 1,066 - 2 Cola 10 290 14,601 33 79 Sta 642 5 1 4 - 1 - 140 1,056 1,066 - 2 Cola 10 3 2 41 03,256 1,066 - 2 Cola 10 3 2 41 03,256 1,066 - 2 Cola 10 3 183 4,228 3,935 1 5 PACIFIC 112 3,128 4 8 78 - 4 2,911 103,256 102,345 96 3,164 PACIFIC 112 3		2	142	-	-	2	-	1	214	0,777	4,775	-	,,		1.0
$\begin{array}{llllllllllllllllllllllllllllllllllll$	W.N. CENTRAL	15	648	20	1	21	7	42	1,227	28,752	30,129	7	206	205	1,363
	Minn.	- 4	125	1	1	3	-	-	176	4,677	5.040	1	74	54	146
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mo	2	58	1	-	1	-	1	117	3,098	3,682	3	12	26	268
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	N, Dak	5	298	17	-	15	6	29	585	12,719	12:8/3		101	94	298
Nubr. - 27 1 - - 1 1 01 2,255 2,056 - Kani. 3 75 - - 1 - 9 217 4,728 4,911 - SATLANTIC 118 3,878 9 2 31 32 507 NA 150,246 153,411 150,281 107 3,88 Dal. 3 56 - 1 - 1 134 2,151 2,488 - 1 Md. 21 498 2 - 2 5 57 NA 15,503 18,398 NA 27 D.C. 5 224 - - 3 - 2 103 2,054 2,070 - 1 N.Va. 4 144 - - 3 2 120 661 14,695 14,081 5 7 N.Va. 10 1,576	S. Dak.		33	-	_	1	_	2	22	863	1.019	-	2	ī	295
Kan. 3 75 - - 1 - 9 217 4,728 4,911 - SATLANTIC 118 3,878 9 2 31 32 507 5,246 153,411 150,281 107 3,88 Md. 21 498 2 - 2 577 NA 15,503 18,398 NA 27 D.C. 5 224 - - 3 - - 484 10,762 9,635 16 28 W.a. 10 4144 - - 3 - 2 103 2.054 2,070 - 1 N.C. 28 691 3 - 2 11219 702 21.879 21.407 6 26 S.C. 8 358 - - 3 1.219 702 21.879 21.407 6 24 90.439.199 44 1.34 Fia. 15 511 4 - - - 38 1.135 1.408	Nebr.	-	27	1	-	-	1	ī	91	2,259	2,096	-	6	2	78
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Kans.	3	75	-	-	1	-	9	217	4,728	4,911	-	8	26	120
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	& ATLANTIC	118	3,878	9	2	31	32	507	5,246	153,411	150,281	107	3,888	3,650	305
D.C. 21 476 2 - 2 5 51 44 10,162 9,635 16 28 14 24 9 Va. 10 412 4 14 66 630 13,805 14,264 9 35 W.Va. 4 144 3 - 2 103 2.054 2,070 - 1 N.C. 28 691 3 - 2 11 219 702 21.879 21,407 6 26 S.C. 8 358 3 2 120 661 14,695 14,081 5 21 Ga. 15 511 4 38 1,178 29,658 28,739 27 1,10 Fla. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 E.S. CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,35 Ky. 11 341 2 1 6 228 7,421 6,895 2 9 Tenn. 10 527 6 2 41 595 18,052 18,833 15 57 Aa. 11 4,31 - 2 1 6 228 7,421 6,895 2 9 Tenn. 10 527 6 2 41 595 18,052 18,833 15 57 Aa. 11 4,575 2 1 4 - 8 355 9,995 11,421 10 41 W.S. CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 14 216 6,059 6,305 8 9 La. 5 358 1 570 14,396 14,081 33 79 Okta. 5 358 1 570 14,396 14,081 33 79 Okta. 5 358 1 6 1,817 51,005 52,120 119 2,300 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont 18 4 - 1 - 3 59 903 1,221 - Vata. 7 191 15 - 3 7 51 285 7,884 7,528 - 5 Tex. 46 1,164 5 - 28 - 16 1,817 51,005 52,120 119 2,300 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont 18 4 - 1 - 3 59 903 1,221 - Vata. 7 191 15 - 3 7 51 285 7,884 7,528 - 57 Mount 18 4 - 1 - 3 59 903 1,221 - Vata 16 3 2 46 1,005 52,120 119 2,300 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont 18 4 - 1 - 3 59 903 1,221 - Vata 16 3 2 46 1,055 4,066 - 2 Vyo 16 3 2 46 1,055 4,066 - 2 NMax 62 5 1 4 - 1 271 6,420 6,467 - 10 NMax 62 5 1 4 - 1 271 6,420 6,467 - 10 NMax 20 1 2 - 4 105 2,957 3,104 - 6 Vata 3 197 1 - 7 170 6,521 6,851 - 12 New 20 1 2 - 4 105 2,957 3,104 - 6 Vata 12 - 14 - 1 271 6,420 6,467 - 10 Nemat 20 1 183 4,228 3,935 1 5 PACIFIC 112 3,128 4 8 78 - 4 2,911 103,256 102,345 96 3,160 Nat 20 1	Md	3	56	-	-	1	-	= 1	134	2,151	2:488		275	18	- 1
Va. 10 412 - - 4 14 66 630 13,805 14,264 935 N.C. 2 14 4 14 - 3 - 2 10 2,054 2,070 - 1 N.C. 28 691 3 - 2 11 219 702 21,879 21,407 6 26 SC. 8 358 - - 3 2 120 661 14,695 14,081 5 21 Ga. 15 511 4 - - - 120 661 14,695 14,081 5 7 1,1354 42,904 39,199 44 1,355 Fann. 10 527 6 - 2 4 6 228 7,421 6,895 2 9 Ala 11 433 - 2 1 6 228 7,421 6,805 8 9 14,401 15,712 8 28 Miss. 8 27	D.C.	21 5	224	-	-	2	-		484	10.762	9.635	16	249	240	
W. Va. 4 144 3 - 2 103 2.054 2.070 - 1 N.C. 28 691 3 - 2 11 219 70 2.1.879 21.407 6 26 S.C. 8 358 3 2 120 661 14.695 14.081 5 21 Ga. 15 511 4 38 1.178 29.658 28.739 27 1.10 Fia. 24 984 - 2 13 - 4 1.354 42.904 39.199 44 1.34 E.S. CENTRAL 40 1.576 8 1 8 3 65 1.468 50.069 52.861 35 1.455 Ky. 11 341 - 2 1 6 228 7.421 6.895 2 9 Tenn. 10 527 6 - 2 2 41 595 18.052 18.833 15 57 Ala. 11 433 - 2 - 10 290 14.601 15.712 8 28 Miss. 8 275 2 1 4 - 8 355 9.995 11.421 10 421 W.S. CENTRAL 61 1.908 52 - 35 7 82 2.948 79.344 80.034 160 3.25 Ark. 3 195 32 - 4 - 14 216 6.059 6.305 8 9 La. 5 358 1 570 14.396 14.081 33 79 Okta. 7 191 15 - 3 7 51 285 7.884 7.528 - 55 Tax. 46 1.164 5 - 28 - 16 1.677 51.005 52.120 119 2.300 MOUNTAIN 4 458 17 1 18 - 12 905 23.924 24.594 2 39 Mont 18 4 - 1 - 3 59 903 1.221 - Viaha 1 27 16 - 2 - 10 240 14.005 1.22 - Viaha 1 2 - 2 - 10 245 23.924 24.594 2 39 Mont 18 4 - 1 - 3 59 903 1.221 - Viaha 1 91 7 - 7 - 171 6.521 6.105 52.120 119 2.300 MOUNTAIN 4 458 17 1 18 - 12 905 23.924 24.594 2 39 Mont 18 4 - 1 - 3 59 903 1.221 - Viaha 1 91 7 - 7 - 171 6.521 6.4651 - 22 MOUNTAIN 4 458 17 1 18 - 12 905 23.924 24.594 2 39 Mont 18 4 - 1 - 3 59 903 1.221 - Viaha 1 91 91 7 - 7 - 171 6.521 6.4651 - 22 MOUNTAIN 4 458 17 1 18 - 12 905 23.924 24.594 2 39 Mont 18 4 - 1 - 3 59 903 1.221 - Viaha 1 91 91 - 7 170 6.521 6.4651 - 12 Mox 91 - 2 - 4 105 2.957 3.104 - 6 Aviz 91 2 - 4 105 2.957 3.104 - 10 NMax 91 2 - 4 105 2.957 3.104 - 10 NMax 91 2 - 4 105 2.957 3.104 - 10 New 32 2 - 3 - 1 6 1.137 1.7272 1 1 New 20 1	Va.	ιó	412	-	-	4	14	66	630	13,805	14,264	. 9	358	308	9
N.C. 28 691 3 - 2 11 219 702 21,879 21,407 6 26 Ga. 15 511 4 - - 38 1,178 29,658 28,739 27 1,10 Fla. 24 984 - 2 13 - 4 1,354 42,904 39,199 44 1,34 ES. CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,35 Ky. 11 341 - - 2 1 6 228 7,421 6,895 2 9 Tenn. 10 527 6 - - 2 41 595 18,052 18,833 15 57 Aa. 11 433 - - 2 948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 18 355 9,995 11,421 10 <t< td=""><td>W.Va.</td><td>4</td><td>144</td><td>-</td><td>-</td><td>3</td><td>-</td><td>2</td><td>103</td><td>2,054</td><td>2,070</td><td>-</td><td>15</td><td>41</td><td>14</td></t<>	W.Va.	4	144	-	-	3	-	2	103	2,054	2,070	-	15	41	14
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	N.C. S.C	28	691	3	-	2	11	219	702	21.879	21,407	6	269	305	11
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ga	8	358	-	-	3	2	120	661	14,695	14,081	5	217	182	44
ES CENTRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1,35 Ky, 11 341 2 1 6 228 7,421 6,895 2 9 Tenn. 10 527 6 2 41 595 18,052 18,833 15 57 Ala. 11 4341 2 - 10 290 14,601 15,712 8 28 Miss. 8 275 2 1 4 - 8 355 9,995 11,421 10 41 W.S. CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 14 216 6,059 6,305 8 9 La. 5 358 1 570 14,396 14,081 33 79 Ckia. 5 195 2 - 37 51 285 7,884 7,528 - 55 Tex. 46 1,164 5 - 28 - 16 1,877 51,005 52,120 119 2,300 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont - 18 4 - 1 - 3 59 903 1,221 - Vidaho 1 22 1 - 1 - 1 40 1,056 1,006 - 2 Wyo 16 3 2 46 7,026 4,007 - Wax 62 5 1 4 - 1 271 6,420 6,467 - 10 NMax 62 5 1 4 - 1 271 6,420 6,467 - 10 NMax 20 1 2 4 105 2,957 3,104 - 6 Viabo 1 22 1 - 1 - 1 105 2,16 1,056 1,066 - 2 Cola 16 3 2 16 7,02 6,521 6,851 - 12 NMax 20 1 2 - 4 105 2,957 3,104 - 6 Viabo 2 - 3 - 16 1,137 1,272 1 1 New 20 1 2 - 4 105 2,957 3,104 - 6 Viabo 2 - 20 1 2 - 4 105 2,957 3,104 - 6 Viabo 2 - 20 1	Fla,	24	211	1	-	1.2	-	36	1,170	47.904	28,139	44	1,348	1,267	55
La CENIRAL 40 1,576 8 1 8 3 65 1,468 50,069 52,861 35 1;35 Ky. 11 341 - - 2 1 6 228 7,421 6,895 2 9 Tenn. 10 527 6 - - 2 41 595 18,052 18,833 15 57 Ala 11 433 - - 2 -10 290 14,4601 15,712 8 28 Miss. 8 275 2 1 4 - 8 355 9,995 11,421 10 41 W.S. CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 14 216 6,059 6,305 8 9 La. 5 358 - - - 1 50 7,884 7,528 - 5	FS one	24	304	_	2	.,			11334	421704	371177			.,	
Tann. 10 527 6 - 2 1 6 228 $7,421$ $6,833$ 2 37 Ala. 11 433 - - 2 - 10 290 $14,601$ $15,712$ 8 288 Miss. 8 275 2 1 4 - 8 355 $9,995$ $11,421$ 10 41 W.S. CENTRAL 61 $1,908$ 52 - 35 7 82 $2,948$ $79,344$ $80,034$ 160 $3,25$ Ark. 3 195 32 - 4 - 14 216 $6,059$ $6,305$ 8 9 La. 5 358 - - - 1570 $14,396$ $14,081$ 33 79 Okta. 7 191 15 - 37 51.205 73.84 7528 -5512 192 192 30 Mount 4 458 17 188	Kv.	40	1,576	8	1	8	3	65	1,468	50,069	52,861	35	1,357	993	227
Ala. 10 921 0 - 2 41 333 10 933 13 14 15 15 15 15 15 15 15 15 11 14 14 14 16 16 16 16 16 16 16 16 16	Tenn.	10	541	-	-	2	- 1	41	228	10 052	01843	15	573	421	07
Miss. 8 275 2 1 4 - 8 355 9,995 11,421 10 41 W.S. CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 14 216 6,059 6,305 8 9 Ja. 5 358 - - - 1 570 14,396 14,081 33 79 Okta. 7 191 15 - 3 7 51 285 7,884 7,528 - 57 Tex. 46 1,164 5 - 28 - 16 1,877 51,005 52,120 119 2,30 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont. - 184 - 1 - 39 903 1,221 - 1 </td <td>Ala.</td> <td>11</td> <td>433</td> <td>-</td> <td>-</td> <td>,</td> <td>-</td> <td>10</td> <td>290</td> <td>14.601</td> <td>15.712</td> <td>- 13</td> <td>282</td> <td>186</td> <td>28</td>	Ala.	11	433	-	-	,	-	10	290	14.601	15.712	- 13	282	186	28
W.S. CENTRAL 61 1,908 52 - 35 7 82 2,948 79,344 80,034 160 3,25 Ark. 3 195 32 - 4 - 14 216 6,059 6,305 8 9 La. 5 358 - - - 14 216 6,059 6,305 8 9 Okta. 5 358 - - - 1 570 14,396 14,081 33 79 Okta. 7 191 15 - 3 7 51 285 7,884 7,528 - 5 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Mont. - 18 - 1 - 3 59 903 1,221 - Viao - 12 1 - 1 40 1,056 1,066 2 Viao - 122 <td< td=""><td>Miss.</td><td>8</td><td>275</td><td>2</td><td>1</td><td>4</td><td>-</td><td>8</td><td>355</td><td>9,995</td><td>11,421</td><td>10</td><td>411</td><td>284</td><td>3 .</td></td<>	Miss.	8	275	2	1	4	-	8	355	9,995	11,421	10	411	284	3 .
Ark 31 1,903 52 - 35 7 82 2,948 79,944 30,034 130 130 120 La 3 195 32 - 4 - 14 216 6,059 6,305 8 9 La 5 358 - - - 1 570 14,396 14,081 33 79 Okia 7 191 15 - 3 7 51,205 7,884 7,528 - 5 Tax. 46 1,164 5 - 28 - 16 1,877 51,005 52,120 119 2,30 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 Moint - 18 4 - 1 - 3 59 903 1,221 - Wyo. - 16 3 - - 2 16 702 678 - Colo. 6,46	W.S. CENTRAL	4.1	1 000			76	-		3 6/8	70 344	90 034	140	3 764	2.726	1.040
La. 5 152 - - 1 170 14,396 14,081 33 79 Okta. 7 191 15 - 3 7 51 285 7,884 7,528 - 5 Tox. 46 1,164 5 - 28 - 16 1,877 51.005 52,120 119 2,30 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 MOUNTAIN 4 458 17 1 18 - 12 905 23,924 24,594 2 39 MOUNTAIN - 18 4 - 1 - 3 59 903 1,221 - Vidato 1 21 - 1 - 1 40 1,056 1,066 - 2 Wyo. - 16 3 - - 2 16 702 678 - 10 NMax. - </td <td>Ark.</td> <td>2</td> <td>105</td> <td>32</td> <td>-</td> <td>20</td> <td></td> <td>14</td> <td>2,948</td> <td>6.059</td> <td>6,305</td> <td>100</td> <td>96</td> <td>93</td> <td>133</td>	Ark.	2	105	32	-	20		14	2,948	6.059	6,305	100	96	93	133
Okla. 7 191 15 $-$ 3 7 51 285 7,884 7,528 $-$ 5 Tex. 46 1,164 5 $-$ 28 $-$ 16 1,877 51,005 52,120 119 2,30 MOUNTAIN 4 458 17 1 18 $-$ 12 905 23,924 24,594 2 39 Mont $-$ 18 $-$ 1 $-$ 12 905 23,924 24,594 2 39 Mont $-$ 18 $-$ 1 $-$ 12 905 903 1,221 $-$ Vatao 1 22 1 $-$ 1 $-$ 140 1,056 1,066 $-$ 2 Colo. $-$ 16 3 $ -$ 2 16 702 678 $-$ N. Max. $-$ 91 $ -$ 2 $-$ 4 105 2,957 3,104 $-$ 6 Nex	La.	5	358	-	_	-	_	- 17	570	14,396	14.081	33	794	665	
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Okia.	7	191	15	-	3	7	51	285	7,884	7,528	-	59	56	178
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	rex.	46	1,164	5	-	28	-	16	1,877	51,005	52,120	119	2,305	1,921	722
	MOUNTAIN	4	458	17	1	18	_	12	905	23.924	24.594	2	398	288	156
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mont	_	18	4	-	1	_	3	59	903	1,221		1	7	30
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	ruaho	1	22	1	-	1	-	1	40	1,056	1,066	-	23	19	1
N. Max. - 62 5 1 4 - 1 2711 $6,420$ $6,4467$ - 10 Ariz. - 91 - 2 - 4 105 $2,957$ $3,104$ - 6 Ariz. 3 197 1 - 7 - - 170 $6,521$ $6,851$ - 12 Utah - 32 2 - 3 - 1 61 $1,137$ $1,272$ 1 1 New. - 20 1 - - - 183 $4,228$ $3,935$ 1 5 PACIFIC 112 $3,128$ 4 8 78 - 4 $2,911$ $103,256$ $102,345$ 96 $3,16'$ Wash. 11 281 - 2 - - NA $7,782$ $4,921$ NA 57	Colo	-	16	3	-	-	-	2	16	702	678	-		5	-8
Ariz. $ -$ <t< td=""><td>N. Mex.</td><td>-</td><td>62</td><td>5</td><td>1</td><td>4</td><td>-</td><td>1</td><td>271</td><td>6,4Z0 2,957</td><td>6,467</td><td>-</td><td>E01</td><td>61 67</td><td>36</td></t<>	N. Mex.	-	62	5	1	4	-	1	271	6,4Z0 2,957	6,467	-	E01	61 67	36
Utah - - - - - - - - - - - - - 1 61 1,137 1,272 1 1 Nev. - - 1 61 1,137 1,272 1 1 Nev. - - 1 61 1,137 1,272 1 1 Nev. - 1 1,272 1 1 N 1 1 1 <th< td=""><td>Ariz.</td><td>5</td><td>107</td><td>1</td><td>-</td><td>4</td><td>-</td><td>-</td><td>105</td><td>6.521</td><td>6.851</td><td>12</td><td>129</td><td>84</td><td>2 Y 4 R</td></th<>	Ariz.	5	107	1	-	4	-	-	105	6.521	6.851	12	129	84	2 Y 4 R
New. - 20 1 - - - 183 4,228 3,935 1 5 PACIFIC 112 3,128 4 8 78 - 4 2,911 103,256 102,345 96 3,16' Wash. 11 2,81 - 2 - - NA 7,782 8,921 NA 15'	Utah		32	2	_	à	_	1	61	1.137	1,272	1	ĩi	3	3
PACIFIC 112 3,128 4 8 78 - 4 2,911 103,256 102,345 96 3,16 Wash. 11 281 - 2 3 - NA 7,782 8,921 NA 150	Nev.	-	20	ī	-	-	-	-	183	4,228	3,935	1	55	52	1
11 281 - 2 3 - NA 7.782 A.921 NA 154	PACIFIC	112	3,128	4	8	78	-	4	2,911	103,256	102,345	96	3,169	2,749	403
Orea 11 201 - 2 3 NA 11102 01921 NA 13-	Trash.	11	281	-	2	3	-	-	NA	7,782	8,921	NA	154	144	
Calif. 4 107 1 - 9 - 1 162 7,016 6,455 1 6	Calif.	4	107	1	-	9	-	1	162	7,016	6,455	1	66	112	3
Alaska 96 2,647 2 6 66 - 3 2,623 83,888 81,824 95 2,83	Alaska	96	2,647	2	6	66	-	3	Z, 623	888,68	81,824	42	2,833	2,410	356
Hawaii $1 = 52 = 70 = 2,470 = 3,273 = $	Hawaii		4L 52	1	-	-	-		70	2,490	1.890	=	108	67	1.4

NA NA NA

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62 1,537

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Pac. Trust Terr. NA: Not available.

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NΔ All delayed reports and corrections will be included in the following week's cumulative totals.

NA NA NA

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NA NA NA

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MMWR

TABLE IV. Deaths in 121 U.S. cities,* week ending August 16, 1980 (33rd week)

REPORTING AREA ALL ADES >65 45.44 <1			ALL CAUSE	S, BY AGE	(YEARS)				T	ALL CAUS	ES, BY AG	E (YEARS)		
New KORLAND 03 8. ATLANTIC 1.13 6.74 3.02 8.9 5.1 3.5 Bidingsport, Com. 51 3.6 11 3 1 4 Batimore, Md. 166 160 52 16 15 14 Bidingsport, Com. 3.8 2.0 8 2 1 - 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P&I** TOTAL	REPORTING AREA	ALL AGES	>65	45-64	25-44	<1	P & I** Total
Bartor, Mar. 201 110 4 4 16 9 12 Attern, Ga. 122 68 35 11 1 1 9 4 Attern, Ga. 122 68 35 11 1 1 9 4 Attern, Ga. 130 10 55 16 15 3 15 4 15 4 5 1 1 1	NEW ENGLAND	638	419	146	35	16	33	S. ATLANTIC	1,183	679	302	89	53	35
 Langapor, Lonn. Langapor, Langapor, L	Boston, Mass.	201	119	48	16	9	12	Atlanta, Ga.	122	68	35	11	1	:
	Cambridge Mass	26	16	.,	í		3	Charlotta N.C.	62	38	16	10	12	3
Hardtord, Conn. 38 26 8 2 1 2 Minin, Fia. 133 80 40 9 1 4 Lorel, Mas. 19 14 4	Fall River, Mass.	23	20	3	-	<u> </u>	-	Jacksonville, Fla.	81	47	21	3	- 4	1
Landell, Maz. 19 14 4 7 Norfolk, Va. 70 42 22 1 1 1 7 1 1 7 1 8 Rahmad, Va. 63 81 12 2 1 1 1 7 1 8 Rahmad, Va. 63 81 12 2 2 1 1 1 2 1 8 Rahmad, Va. 63 81 12 2 2 1 1 1 2 1 8 Rahmad, Va. 63 81 12 2 2 1 1 1 2 1 8 Rahmad, Va. 64 81 12 2 1 2 1 2 1 2 1 7 1 8 Rahmad, Va. 64 81 12 2 1 2 1 2 1 2 1 2 1 2 1 7 1 8 1 2 1 7 1 8 1 2 1 7 1 8 1 2 1 7 1 8 1 2 1 7 1 8 1 2 1 7 1 8 1 1 2 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	Hartford, Conn.	38	26	8	2	1	2	Miami, Fla.	133	80	40	9	1	4
Lynn, Mats. Lynn, Mats. <thlynn, mats.<="" th=""> <thlynn, mats.<="" th=""></thlynn,></thlynn,>	Lowell, Mass.	18	14		-	-	-	Norfolk, Va.	70	42	22	1	1	1
New Hom, Conn. 42 42 10 4 1 - Somewiden, Conn. 42 42 10 4 1 - Somewiden, Max. 7 7 Witheritary, Con. 22 2 7 1 - 1 Witheritary, Con. 22 2 7 1 - 1 MID. ATLANTIC 2.603 1.636 610 194 76 118 Chartaroog, Tan. 4 2 2 10 2 - 4 Albary, N. 5 3 2 1 3 1 ES. CENTRAL 707 410 187 45 23 33 Birling, N. 7 5 2 2 1 3 1 Karage (S. K. S. C. K. S.	Lynn, Mass. New Redford More	4	'7	1	÷	-	-	Richmond, Va.	69	35	11		- 1	ź
Providence, R.I., 47 35 25 3 2 6 7	New Haven, Conn.	62	42	10	4	1	-	St. Petersburg, Fla.	100	79	13	ź	5	3
Somewrite, Max. 7 7 - - - - Withington, D.C. L70 92 42 1 10 3 Withington, Com. 32 22 6 1 - 1 Withington, Del. 66 20 16 15 2 2 Withington, Com. 32 22 6 1 - 1 Withington, Del. 66 20 16 15 2 2 33 Withington, N. 53 7 2 - - 1 16 17 40 12 0 2 1 2 1 3 1 - - 1 Lowingtin, Atla. 13 1 2 1 2 1	Providence, R.I.	67	35	25	3	2	6	Tampa, Fla.	78	54	15	4	3	6
Springflad, Mas. 32 5 2 3 7 3 2 1 Weinstein, Mas. 45 3 3 7 3 2 1 MID. ATLANTIC 2:603 1:636 610 194 76 116 Alloritown, Mas. 45 3 3 4 8 3 Jamma Mas. 14 63 33 4 8 3 Jamma Mas. 12 5 2 1 3 1 Hitadaphi, N.A. 132 6 8 1 4 2 Jamma Mas. 135 79 34 10 5 4 Jamma Mas. 12 6 12 Penton, N.J. 37 23 71 3 3 - Penton, N.J. 37 23 71 3 3 - Penton, N.J. 37 23 71 3 2 - Penton, N.J. 37 23 71 7 3 - Penton, N.J. 37 23 71 7 3 - Penton, N.J. 37 23 71 7 - Penton, N.J. 37 24 71 7 - Balan, Fax. 1440 9 51 20 2 3 Baton Fong, La. 43 26 12 5 Pathalaphi, Par. 7 8 46 24 2 4 3 Corpus Christi, Fax. 144 9 9 51 20 2 3 Baton Fong, La. 43 26 12 5 Pathalaphi, Par. 7 8 46 22 20 2 3 22 Jamma Mas. 122 6 1 El Lizaket, N.Y. 80 52 20 2 3 22 Jamma Mas. 122 7 1 7 - 8 1 Environ, N.J. 29 10 4 4 Total, N.Y. 20 15 3 - 1 1 Strangeort, La. 36 54 56 2 2 2 Jamma Mas. 123 74 82 11 - 1 Strangeort, La. 36 47 32 19 Jamma Mas. 124 6 1 Baton Fong, La. 43 85 45 6 2 2 Jamma Mas. 124 6 1 Jamma Mas. 124 6 1 - 2 Jamma Mas. 124 6 1 Jamma Mas. 125 7 3 12 6 - Jamma Mas. 127 7 3 1 1 3 Jamma Mas. 127 7 1 1 3 3 1 2 Jamma Mas. 127 7 1 1 3 3 1 2 Jamma Mas. 128 7 1 3 1 2 Jamma Mas. 128 7 1 1 3 1 3 Jamma Mas. 128 7 1 1 3 1 3 Jamma Mas. 128 7 1 1 3 1 3	Somerville, Mass.		7	-	-	-	-	Washington, D.C.	170	92	42	15	10	3
Internation, Mark. 45 33 7 3 2 2 MID. ATLANTIC 2:603 1:636 610 194 76 118 114 63 33 4 8 5 Albart, N.Y. 53 29 10 5 5 - Knazville, Tenn. 34 21 0 2 - 1 Albart, N.Y. 30 17 6 12 - Lawin, Iamony, Tenn. 12 64 42 14 12 14 14 14 12 12 13 13 13 13 14 14 12 16 12 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	Springfield, Mass.	32	27	8	1	-	1	Wilmington, Del.	66	20	16	15	z	-
MID. ATLANTIC 2+603 1-636 610 194 76 118 Chattancoog, Tenn. 65 33 4 8 5 Albent, N.Y. 53 29 10 5 - - Louisville, Tenn. 65 37 18 4 1 Albent, N.M. 17 16 2 - - Louisville, Tenn. 65 37 18 4 1 2 2 - 1 Louisville, Tenn. 13 61 2 1 2 16 16 1 2 12 2 1 1 - - Netwille, Tenn. 135 79 34 14 2 12 2 1 1 4 2 12 12 14 14 16 <td>Worcester, Mass.</td> <td>45</td> <td>33</td> <td>7</td> <td>3</td> <td>2</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Worcester, Mass.	45	33	7	3	2	2							
$ \begin{array}{c} \text{MID. ATLANTIC} & 2+603 & 1+636 & 610 & 194 & 76 & 16 & 76 & 76 & 76 & 76 & 77 & 76 & 16 & 76 & 7$								E.S. CENTRAL	707	410	187	45	23	33
MID. ATLANTIC 2-10-3 1-2-5 0-10 194 7-6 118 Chartancoog, Tenn. 65 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 37 18 4 1 27 3 4 1 2 4 4 1 2 4 37 18 4 1 2 4 37 18 4 1 2 4 38 18 4 1 2 1 36 18 12 2 12 13 136 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100								Birmingham, Ala.	114	63	33	- 4	8	5
$ \begin{array}{c} \text{Automics } p_{\text{a}} & 16 & 16 & 12 & - & - & - & - & - & - & - & - & - & $	MID. ATLANTIC	2,003	1,030	610	194	/6 5	118	Chattanooga, Tenn.	65	37	18	4	1	ĩ
Durffe, N.Y. 97 60 27 5 3 8 Memphis, Tam. 152 8 40 13 2 12 Graden, N.J. 25 21 3 1 - - Montgomery, Ala. 41 26 8 1 4 2 4 3 3 3 3 7 Montgomery, Ala. 41 12 4 3	Allentown Pa.	18	16	2		-	-	Knoxville, Lenn.	94	61	20	ś	2	4
Camden, N.J. 30 17 8 1 2 Mobin, Aia. 72 34 24 6 1 2 Erie, Pa.t. 22 17 2 2 - Nahville, Tenn. 135 79 34 10 5 4 Brenze, Ciry, N.J. 46 26 16 3 1 - Austin, Tex. 52 28 10 5 3 35 Philosophia, Pa.t. 440 264 108 27 25 31 -<	Buffalo, N.Y.	97	60	27	5	3	8	Memphis, Tenn.	152	88	40	13	2	12
Elizateri, N.J., 25 21 3 1 $ -$ Montgommy, Ala, 41 26 8 1 4 4 4 4 1 $-$ Montgommy, Ala, 41 26 8 1 4 4 4 $ -$ 1 Montgommy, Ala, 41 26 8 1 4 $ -$ Montgommy, Ala, 41 26 8 1 4 $ -$ Montgommy, Ala, 41 26 8 1 4 $ -$ Montgommy, Ala, 41 26 8 1 4 $ -$ Montgommy, Ala, 41 26 8 1 $ -$ Montgommy, Ala, 41 26 8 1 $ -$	Camden, N.J.	30	17	8	1	2	-	Mobile, Ala.	72	34	24	6	1	2
Ling, PLL 4 2 4 1 5 1 2 PRAVINE, 197 3 6 10 3 N.Y. City, N.Y. 1, 361 660 309 119 28 51 N.Y. City, N.Y. 1, 361 660 309 119 28 51 N.Y. City, N.Y. 1, 361 660 309 119 28 51 Philadelphia, Pa.t 440 264 106 27 25 33 Philadelphia, Pa.t 78 46 24 2 4 3 Consuct Aprix, N.Y. 113 77 27 7 6 Reading, Pa. 30 22 6 2 - 1 Schenetizedy, N.Y. 32 18 11 1 - 1 Schenetizedy, N.Y. 21 18 5 1 - 2 Hukouton, Tax. 254 101 76 42 13 3 Syracus, N.Y. 20 15 3 - 1 1 Schenetizedy, N.Y. 21 14 6 1 - 2 Norkers, N.Y. 21 14 6 1 - 2 Schenetizedy, N.Y. 20 15 3 - 1 1 Schenetizedy, N.Y. 21 14 6 1 - 2 Schenetizedy, N.Y. 21 14 5 1 - 1 Tulas, Okla 69 46 10 6 5 3 Schenetizedy, N.Y. 21 14 5 16 1 - 2 Acron, Okio 44 32 5 22 5 1 6 Akron, Okio 45 25 123 41 14 72 Canton, Okio 130 76 36 9 21 10 Construction 130 76 36 9 21 10 Construction 130 76 36 9 21 10 Data Vizo New, 72 42 15 8 4 4 Construction 130 76 36 9 21 10 Data Vizo New, 72 42 15 8 4 4 Construction 130 76 36 9 21 10 Data Vizo New, 73 2 18 5 Totako, Okio 130 76 35 6 21 1 Data Vizo New, 73 2 18 5 Continue, Okio 130 76 35 6 2 1 2 Dation, Okio 130 76 35 7 1 6 4 3 Gary, Ind. 25 77 18 4 3 Construction, Calif. 51 33 11 5 Honoluty, Hawaii 15 7 5 00 15 7 4 3 2 1 Construction, Calif. 15 1 33 11 5 Honoluty, Hawaii 15 7 5 10 2 5 7 1 1 3 Data Vizo New, 64 37 20 1 4 2 2 Son Jong Calif. 113 7 2 3 1 1 Data New, CeNTRAL 79 500 15 9 43 2 2 3 Son Jong Calif. 130 10 5 7 1 2 Son Jong Calif. 130 10 7 2 3 8 12 4 12 Son Jong Calif. 130 10 7 2 3 8 1 4 1 1 Data Managolis, Ind. 133 80 14 1 2 5 Son Jong Calif. 130 7 2 28 8 4 1 1 1 Data Managolis,	Elizabeth, N.J.	25	21	3	1	-	-	Montgomery, Ala.	41	26	8	1	- 4	4
Navner, N.J. 49 26 12 8 1 3 3 Pathron, N.J. 37 23 7 3 3 - Aurtin, Tex. 52 28 10 5 3 3 Pathron, N.J. 37 23 7 3 3 - Aurtin, Tex. 52 28 10 5 3 3 Pathron, N.J. 78 26 26 12 5	Jersev City, N.J.	46	24	16	3	1	ź.	Nashville, Tenn.	133	19	34	10	2	-
N.Y. City, N.Y. 1, 361 660 309 119 28 51 W.S. CENTRAL 1, 217 656 318 125 43 36 Philadelphia, Pa. 1 78 46 24 2 43 Aurtin, Tex. 52 28 105 3 3 Philadelphia, Pa. 1 78 46 24 2 43 Aurtin, Tex. 52 28 105 5 3 3 Baton Rouge, La. 43 26 12 5 Dallas, Tex. 217 15 8 2 1 - Dallas, Tex. 217 15 8 2 1 - Dallas, Tex. 217 15 8 2 1 - Dallas, Tex. 44 09 51 20 2 3 Saranton, Pa. 1 22 16 5 1 - 2 Houston, Tex. 44 00 13 6 2 3 Fort Worth, Tax. 95 56 21 9 5 3 - 2 Houston, Tex. 256 101 74 42 13 3 Saranton, PA. 20 15 3 - 1 1 Now Orlant, La 143 85 45 6 2 2 3 Saranton, N.Y. 21 14 6 1 - 1 San Antonio, Tez. 194 117 44 16 7 13 2 10 San Antonio, Tez. 194 117 44 16 7 13 2 Now Orlant, La 143 85 45 6 2 2 1 5 3 1 San Antonio, Tez. 194 117 44 16 7 13 2 Now Orlant, La 143 67 46 10 6 5 3 Canton, Ph.Y. 21 14 6 1 - 4 Now Orlant, La 143 85 45 6 2 2 0 6 - 1 1 Tuls, OKla 66 46 10 6 5 3 Canton, Ohio 64 32 22 5 4 Alburguergue, N.M.X. 72 4 15 8 4 4 Alburguergue, N.M.X. 72 4 15 8 4 4 Alburguergue, N.M.X. 72 4 15 8 4 4 Colo. Spring, Colo. 123 71 25 9 10 6 Candon 10 16 5 23 6 2 1 2 4 Sarantonio, Taz. 128 78 29 11 3 2 4 Colorspin, Ohio 130 76 32 6 2 1 2 4 Saranton, Calit. 15 9 5 10 6 Candon 10 16 5 23 6 2 1 2 4 Sarantonio, Taz. 128 78 29 11 3 2 4 Colorspin, Ohio 130 76 32 6 2 1 2 5 Saranton, Calit. 15 9 5 1 2 Phoenix, Ariz. 128 78 29 11 3 2 3 - 5 Candon 10 16 5 23 6 2 1 2	Newark, N.J.	49	26	12	8	ī	3							
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$ \begin{array}{c} \text{Cartanuch, Pic.} & 22 & 13 & 3 & 1 & - & 2 \\ \text{Tremton, N.L.} & 29 & 19 & 4 & 4 & - & - & - \\ \text{New Orleans, La.} & 143 & 85 & 45 & 6 & 2 & 2 \\ \text{Little Reck, Ark.} & 60 & 29 & 18 & 7 & 3 & 2 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{San Antonio, Tex.} & 194 & 117 & 44 & 16 & 7 & 13 \\ \text{Cartanuchio} & 43 & 25 & 13 & 1 & 2 & - & \\ \text{Atron, Ohio} & 64 & 32 & 225 & 13 & 1 & 2 & - & \\ \text{Abron, Ohio} & 43 & 25 & 13 & 1 & 2 & - & \\ \text{Chicago, III} & 492 & 285 & 123 & 41 & 14 & 8 \\ \text{Calumbus, Ohio} & 117 & 71 & 29 & 8 & 2 & 12 \\ \text{Cartanuchio} & 182 & 113 & 38 & 18 & 11 & 3 \\ \text{Cartanuchio} & 182 & 113 & 38 & 18 & 11 & 3 \\ \text{Cartanuchio} & 101 & 65 & 23 & 6 & 2 & 1 \\ \text{Dervis, Ohio} & 101 & 65 & 23 & 6 & 2 & 1 \\ \text{Dervis, Ohio} & 101 & 65 & 23 & 6 & 2 & 1 \\ \text{Dervis, Ohio} & 101 & 65 & 27 & 18 & 4 & 3 & 4 \\ \text{Indianapolis, Ind.} & 133 & 80 & 34 & 10 & 4 & 2 \\ \text{Darbait, Mich.} & 268 & 150 & 69 & 29 & 11 & 6 \\ \text{Darbait, Mich.} & 268 & 150 & 69 & 29 & 11 & 6 & 1 & 2 \\ \text{Darbait, Mich.} & 133 & 80 & 34 & 10 & 4 & 2 \\ \text{Paradiso, Wis.} & 150 & 94 & 40 & 8 & 4 & 2 \\ \text{Freend, Calif.} & 19 & 11 & 3 & 2 & 3 & - & - \\ \text{Fordway Calif.} & 19 & 11 & 3 & 2 & 3 & - & - & - \\ \text{Rockind, III} & 41 & 25 & 11 & 3 & 1 & - & - & - & - & - & - & - & - & -$	Schenectady, N.Y.	32	18	11	1	-	ļ	Fort Worth, Tex.	95	56	21	9	5	2
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	Wichita, Kans.	36	28	7	-	, <u>s</u>	3	· - <i>·</i> ··•		2				

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included. *Prevenonia and influenza

tBecause of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

11 Data not available this week. Figures are estimates based on average percent of regional totals.

Formaldehyde Exposure - Continued

- Bourne H, Seferian S. Formaldehyde in wrinkle-proof apparel processes. tears for my lady. Industrial Medicine and Surgery 1959;28: 232-3.
- 4. Kerfoot E, Mooney T. Formaldehyde and paraformaldehyde study in funeral homes. American Industrial Hygiene Association Journal 1975;36:533-7.
- 5. Bureau of National Affairs. Occupational Safety and Health Reporter, October 18, 1979:471.

^AThis article was developed from NIOSH Health Hazard Evaluation Report #70-146-670. A summary of that report, as well as all Health Hazard Evaluation and Technical Assistance Reports since December 1979, is now available in a new quarterly publication called "Health Hazard Evaluation Summaries." It is available from NIOSH by writing or calling: Ms. Vivian Morgan, NIOSH, Publications Dissemination, 4676 Columbia Parkway, Cincinnati, Ohio, 45226; Phone: 513-684-8323.

Current Trends

Mortality due to Malignant Neoplasms - Florida

In the state of Florida in 1978, the age-adjusted rate for deaths due to malignant neoplasms (cancer) was 132.1 per 100,000 population, which equalled the previous high in 1972 (Table 1). Provisional data for 1979 indicate a 3.7% increase in the number of Cancer deaths.§

Data were classified into 4 groups: white males; white females; males, all other races; and females, all other races. White males continued to have the highest cancer mortality among the 4 groups, both in the number of deaths and in the unadjusted rates (Table 1).

			DEATHS					RAT	res		e Female 0 94.4 9 104.6 0 105.0 5 100.2 2 104.1					
YEAD	Total	IAIL	vitor	All	other		Unadjusted									
· can		Total		r:	aces	Age-	Tetel	W	hite	All other races						
		Male	Female	Male	Female		Total	Male	Female	Male	Female					
1950 1960	3,661 7,789	1,634 3,920	1,438 2,849	292 544	297 476	115.3 119.8	129.8 155.7	149.4 193.8	129.0 136.5	98.0 123.9	94.4 104.6					
1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979+	12,047 12,809 13,716 14,449 15,953 16,581 17,767 18,387 19,500 20,200 21,639	6,292 6,662 7,081 7,556 8,292 9,226 9,451 10,155 10,242 11,066	4,377 4,779 5,130 5,354 6,036 6,274 6,835 7,126 7,472 7,918 8,522 9,946	807 812 913 950 979 1,037 1,100 1,160 1,235 1,261	571 556 583 614 666 724 669 707 712 800 783	122.3 123.8 127.8 126.5 132.1 128.0 125.8 122.5 129.3 129.1 132.1	185.6 191.2 200.1 202.9 214.4 211.4 215.4 216.7 228.0 231.7 241.3	238.5 244.5 253.9 260.7 273.6 268.2 268.9 268.8 287.5 284.6 297.9	156.0 164.3 171.6 171.3 183.6 179.3 186.6 187.6 194.3 201.7 210.6	160.0 158.5 177.2 175.8 176.9 180.0 189.2 200.1 209.7 220.4 222.4 222.4	105.0 100.2 104.1 107.4 113.6 121.6 110.1 114.1 114.9 126.5 122.6					

TABLE 1. Malignant neoplasm (cancer) deaths and death rates per 100,000 population, by race and sex, Florida, 1950, 1960, and 1968-1978

^{*}Age-adjusted to U.S. 1940 standard population. [†]Provisional data. ±Not available.

§ The age-adjusted rate for 1979 is not yet available.

Malignant Neoplasms - Continued

Males of all other races have the second highest rate followed by white females, then females of all other races. This pattern has persisted since 1973. All 4 groups continued to show increases in number, but the rates for whites may be leveling off. For the category "all other races," the rates are the highest ever reported in the state.

There has been a recent, sharp increase in the age-adjusted cancer mortality rate among males of all other races but white (Figure 1). The gap in age-adjusted rates between these males and the other groups has widened considerably over the past 10 years. During the same period, the age-adjusted rates for the other 3 groups have shown a very gradual increase. These relative positions and trends are approximately the same for the United States as a whole, except that age-adjusted rates in Florida for all other races but white are a little higher than those for the nation.

The cancer death rate is generally increased among the older age groups and decreased among the younger age groups. Since 1970, the death rate has decreased 26% for those under 15 years of age, and decreased 9% for those 15-24 years of age. There has been an increase of 11% in the mortality rate for those 25-34 years of age, but a decrease of 15% for those 35-44, and 1% for those 45-54. Increases have occurred among the 3 oldest age groups, 55-64 (2%), 65-74 (10%), and 75+ (11%).

Cancer of the respiratory system increased at a greater rate than cancers of other sites and was the only site showing a fairly consistent increase from 1970 through 1977. The

FIGURE 1. Age-adjusted* cancer mortality rates per 100,000 population, by race and sex, Florida, 1960-1978.



*Adjusted to U.S. 1940 standard population.

August 22, 1980

MMWR

Malignant Neoplasms - Continued

^{age-}adjusted mortality rates for cancer of the genital organs and leukemia have declined somewhat since 1970. No real trend is discernible for the age-adjusted mortality rates for cancer of the digestive system, which is lower than it was in 1970, and breast cancer, which is higher than it was in 1970.

Reported by RT Downes, BA, GA Purcell, BS, RA Gunn, MD, State Epidemiologist, the Florida Dept of Health and Rehabilitative Services, in the Monthly Vital Statistics Report, January-October, 1970; Chronic Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: The leading cause of death in Florida and the nation is heart disease. Cancer is the second leading cause. In Florida, cancer represented 22.8% of all deaths reported during 1979 and was responsible for more than twice as many deaths as stroke, the third leading cause of death.

Comparing Florida to the United States as a whole, the age-adjusted rates show that the U.S. rate for cancer mortality was 2% higher in 1970, 3% higher in 1977, and 1% higher in 1978. Florida's lower rates are probably due to an over-64 population that is relatively more affluent than the national average, a fact which might be expected to result in more-accessible medical care. In addition, Florida is probably more oriented towards the medical problems of the elderly, since the state's over-64 population is 17.5% of the total, compared with 11.0% nationally.

Incorrect Drug Dosage in the FDA Drug Bulletin

The July issue of the Food and Drug Administration (FDA) Drug Bulletin contains a serious error in the pediatric dosage of vancomycin to be used in the prophylaxis of bacterial endocarditis in patients allergic to penicillin. The incorrect dosage is 200 mg/kg intravenously as a single dose. The correct dosage is 20 mg/kg intravenously as a single dose.

Reported at the request of the FDA.

The Morbidity and Mortality Weekly Report, circulation 91,840, is published by the Center for Disease Control, Atlanta, Georgia. The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; ^{compiled} data on a national basis are officially released to the public on the succeeding Friday.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn: Distribution Services, GSO 1-SB-419, Atlanta, Georgia 30333. Or call 404-329-3219. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

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