

Mourning Dove

Population Status, 2021



MOURNING DOVE POPULATION STATUS, 2021

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Abstract: This report summarizes information collected annually in the U.S. on survival, recruitment, abundance and harvest of mourning doves. Absolute abundance estimates based on band recovery and harvest data are reported, and harvest and hunter activity are estimated from the Migratory Bird Harvest Information Program (HIP). Estimates of absolute abundance are available since 2003 and indicate that there were approximately 194 million doves in the U.S. as of 1 September 2020. Abundance (in millions of birds) varied among management units in 2020: EMU 52.9 (SE=2.7); CMU 107.5 (SE=7.0); and WMU 33.7 (SE=2.8). HIP estimates for mourning dove total harvest, active hunters, and total days afield in the U.S. in 2020 were 11,727,200 (SE=378,100) birds, 748,900 hunters, and 2,195,600 (SE=86,800) days afield. In 2020 harvest and hunter activity at the management unit level were: EMU, 4,648,300 (SE=196,225) birds, 293,800 hunters, and 792,700 (SE=31,500) days afield; CMU, 5,885,700 (SE=318,100) birds, 368,200 hunters, and 1,171,000 (SE=79,800) days afield; and WMU, 1,193,100 (SE=57.100) birds, 86,800 hunters, and 231,800 (SE=13,200) days afield.

The mourning dove (*Zenaida macroura*) is one of the most abundant bird species in North America, and is familiar to millions of people. Authority and responsibility for management of this species in the U.S. is vested in the Secretary of the Interior. This responsibility is conferred by the Migratory Bird Treaty Act of 1918 which, as amended, implements migratory bird treaties between the U.S. and other countries. Mourning doves are included in the treaties with Great Britain (for Canada) and Mexico (U.S. Department of the Interior 2013). These treaties recognize sport hunting as a legitimate use of a renewable migratory bird resource.

Maintenance of dove populations in a healthy, productive state is a primary management goal. Management activities include population assessment, harvest regulation, and habitat management. Each year, tens of thousands of doves are banded and thousands of wings from harvested doves are analyzed to estimate annual survival, harvest rates, recruitment, and abundance. The resulting information is used by wildlife managers in setting annual hunting regulations (USFWS 2017). Past federal frameworks for hunting mourning doves in the U.S. are in Appendix A.

DISTRIBUTION

Mourning doves breed from southern Canada throughout the U.S. into Mexico, Bermuda, the Bahamas and Greater Antilles, and in scattered locations in Central America (Peterjohn et al. 1994, Fig. 1). Although mourning doves winter throughout much of their breeding range, the majority winter in the southern U.S., Mexico, and south through Central America to western Panama (Aldrich 1993, Mirarchi and Baskett 1994).

POPULATION MONITORING

Within the U.S., three zones contain mourning dove populations that are largely independent of each other (Kiel 1959; Fig. 2). These zones encompass the principal breeding, migration, and U.S. wintering areas for each population. As suggested by Kiel (1959), these three zones were established as separate management units in 1960 (Kiel 1961). Since that time, management decisions have been made within the boundaries of the Eastern (EMU), Central (CMU), and Western (WMU) Management Units (Fig. 2). The EMU was further

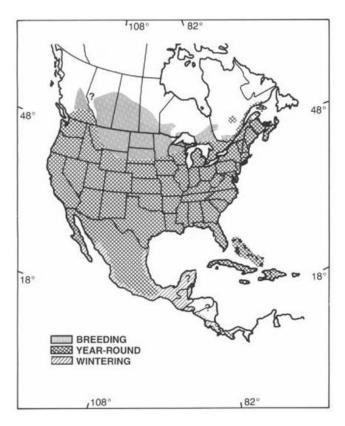


Figure 1. Breeding and wintering ranges of the mourning dove (adapted from Mirarchi and Baskett 1994).

divided into two groups of states for some analyses: states permitting dove hunting were combined into one group (hunt) and those prohibiting dove hunting into another (non-hunt). Additionally, some states were grouped to increase sample sizes. Maryland and Delaware were combined; Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, and Rhode Island, and Vermont were combined to form a North Atlatnic group. Even though Rhode Island is a hunt state, due to its small size and geographic location its data was included in this non-hunt group of states for analysis.

Breeding Bird Survey

The North American Breeding Bird Survey (BBS; Robbins et al. 1986) was not completed in 2020 due to COVID-19 restriction. BBS results for mourning doves from previous years can be found in the 2020 status report (Seamans 2020).

Banding Program

A national banding program was initiated in 2003 to improve our understanding of mourning dove population biology and to help estimate the effect of harvest on mourning dove populations. Doves are banded in July and August in most of the lower 48 states. Band recoveries occur almost exclusively during the U.S. hunting seasons which occur between 1 September and 31 January (Appendix A).

Banding goals for each state (specified by Bird Conservation Region [BCR]) are based on a power analysis that estimated sample sizes necessary to achieve a desired precision in estimates of population growth rate at the management unit level (Otis 2009). A weighting factor based on the median BBS index during 1966–2008 was used to determine banding goals for each state within the management units. Within states, the amount of area in each BCR and associated median BBS indices were used to determine sample size allocation. Placement of banding stations is left to the judgment of each state's dove banding coordinator.

Harvest Survey

The Harvest Information Program (HIP) was cooperatively developed by the U.S. Fish and Wildlife Service (USFWS) and state wildlife agencies to provide reliable annual estimates of hunter activity and harvest for all migratory game birds (Elden et al. 2002). The HIP sampling frame consists of all migratory game bird hunters. Under this program, state wildlife agencies collect the name, address, and additional information from each migratory bird hunter in their state, and send that information to the USFWS. The USFWS then selects stratified random samples of those hunters and asks them to voluntarily provide detailed information about their hunting activity. For example, hunters selected for the mourning dove harvest survey are asked to complete a daily diary about their mourning dove hunting and harvest during the current year's hunting Their responses are then used to develop nationwide mourning dove harvest estimates. HIP survey estimates of mourning dove harvest have been available since 1999. Although estimates from 1999-2002 have been finalized, the estimates from 2003-20 should be considered preliminary as refinements are still being made in the sampling frame and estimation techniques.



Figure 2. Mourning dove management units with 2019–21 hunt and non-hunt states.

Parts Collection Survey

Age of individual doves can be determined by examination of their wings (Ruos and Tomlinson 1967, Braun 2014). Mourning dove wings are obtained during the hunting season and provide estimates of recruitment (number of young per adult in the population), which can be used to inform harvest management. From 2005–2009 some states collected wings for use in estimating age ratios in the fall populations. In 2007, the USFWS initiated the national Mourning Dove Parts Collection Survey, which expanded the geographical scope of the earlier state-based surveys.

The survey design for mourning dove wing collection follows that of waterfowl (Raftovich et al. 2020). The sampling frame is defined by hunters who identify themselves as dove hunters when purchasing a state hunting license and who were active dove hunters the previous year.

An in-person wingbee could not be held in 2020 due to COVID-19 restrictions. Wings were mailed to a subset of state and federal biologists that have annually attended the wingbee prior to 2020. Wings of harvested mourning doves are classified as juveniles (hatch-year birds [HY]) or adults (after-hatch-year birds [AHY]). A significant portion of wings are classified as unknown age where molt has progressed to a late stage. These

harvest age ratios (HY/AHY) are used to estimate recruitment (population age ratio) after accounting for uncertainty related to unknown-age wings and agespecific vulnerability to harvest (Miller and Otis 2010).

Call-count Survey

The Mourning Dove Call Count Survey (CCS) was conducted from 1966 to 2013. The CCS was developed to provide an annual index of abundance specifically for mourning doves (Dolton 1993). The CCS was discontinued because the harvest strategy adopted for mourning doves in 2013 does not make use of data from the CCS, but rather relies on estimates of absolute However, state and federal biologists abundance. conducted a national study from 2015 to 2017 using a subset of the historical CCS routes to determine if point count surveys that use distance sampling methods (Buckland et al. 2001) can produce absolute abundance estimates. Those interested in historic CCS information can access the 2013 status report for mourning doves (available online at: https://www.fws.gov /migratorybirds/pdf/surveys-and-data/Populationstatus/MourningDove/MourningDovePopulationStatus 13.pdf).

METHODS

Estimating Survival, Harvest, Recruitment Rates, and Absolute Abundance

Band recovery models were used to estimate annual survival. A Seber parameterization (Seber 1970) with both direct and indirect dead recoveries was used to estimate survival rates. To estimate harvest rates only direct recoveries (bands recovered during the hunting season immediately following banding) were used and data were adjusted for band—reporting rate (Sanders and Otis 2012) prior to analysis.

Age-specific harvest and survival rates were estimated by state and management unit. Many states lacked sufficient sample sizes of banded birds to estimate annual survival rates; therefore, data were pooled over years to obtain mean annual estimates. Harvest rate for a year in a given state was only estimated when the number of banded birds in an age-class was >75. Annual harvest rates for management units were based on state-weighted harvest rate estimates. Each state's weight was the product of its habitat area (area within state presumed to be dove habitat) and average dove abundance estimated by the CCS index of doves heard during 2009-2013 (the CCS was discontinued after 2013). It should be possible to update the CCS portion of the weighting factor once analysis of the 2015–2017 CCS-distance sampling study is complete (see "Call-Count Survey" above).

For estimating survival rates, a model was formulated that allowed recovery rate to vary by state with an additive age effect (HY vs. AHY), and allowed survival to vary by state and age. This model was used for inference regarding age and state-specific survival rates.

The approach of Miller and Otis (2010) was used to estimate annual recruitment rates. Samples were limited to wings collected during the first two weeks of September to minimize the proportion of unknown age wings and maximize the proportion of local birds in samples. Unknown age wings were assigned to an age-class based on previously estimated probabilities that adults will be in late stages of molt (Miller and Otis 2010). Band recovery data was used to adjust age-ratio estimates for differential vulnerability to harvest.

A simple Lincoln-type estimator was used to estimate abundance from annual harvest and harvest rates (Otis 2006). Abundance for each year was estimated at the management unit level separately for juvenile and adult doves by dividing age-specific total harvest (from the USFWS Harvest Information Program [Table 2] and Parts Collection Survey [Table 5]) by age-specific harvest rates estimated from direct (first hunting season after banding) recoveries of banded birds.

RESULTS

Harvest Survey

Preliminary results of mourning dove harvest and hunter activity from HIP for the 2019–20 and 2020–21 hunting seasons are presented in Tables 1 and 2, respectively. Current (2020–21) HIP estimates indicate that in the U.S. about 12 million mourning doves were harvested by about 750 thousand hunters who spent about 2.2 million days afield. The EMU and CMU total harvest represented 40% and 50%, respectively, of the national harvest of doves while the WMU represented 10% (Table 2). In all management units mourning dove harvest and hunter activity (days afield) increased in 2020–21 from the previous year (Fig. 3; Tables 1 and 2).

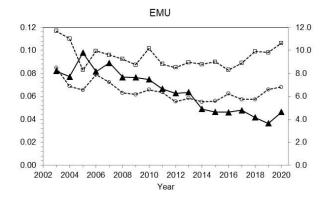
Additional information about HIP, survey methodology, and results can be found in annual reports located at: https://www.fws.gov/birds/surveys-and-data/reports-and-publications/hunting-activity-and-harvest.php.

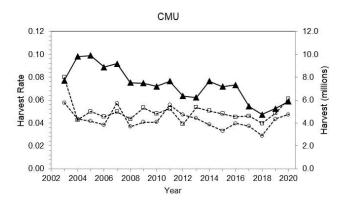
Survival and Harvest Rates

During July and August over the past 18 years 336,736 known age doves were banded in the EMU, 291,937 in the CMU, and 138,745 in the WMU (Table 3). There have been 19,759, 14,253, and 4,991 recoveries of known-age banded birds in the EMU, CMU, and WMU, respectively.

Mean annual HY survival was similar between the CMU and EMU but higher in the WMU (Table 4). AHY survival was higher in CMU compared to the EMU, and survival in the WMU was intermediate.

Mean annual harvest rate was higher for HY individuals compared to AHY individuals in all the management





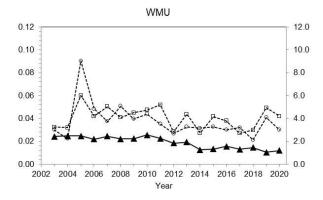


Figure 3. Estimated mourning dove harvest (▲) and harvest rates (hatch-year=□ and after-hatch-year=□) by dove management unit, 2003–2020.

units (Fig. 3, Table 4). This relationship was more pronounced in the EMU (HY harvest rate 50% greater than AHY harvest rate) than the CMU (29% greater) and WMU (17% greater). Mean annual harvest rates by age-class (HY and AHY) were greater in the EMU than in the other management units (Table 4). Within the EMU, the harvest rate of birds banded in the North Atlantic states (predominantly non-hunt states) was much lower than that of most hunt states (Table 4).

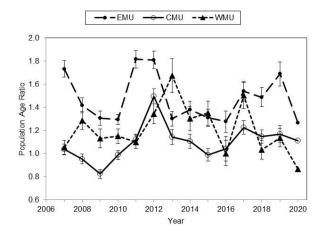


Figure 4. Estimated mourning dove fall population age ratios for each management unit, 2007–2020. Error bars represent 95% confidence intervals.

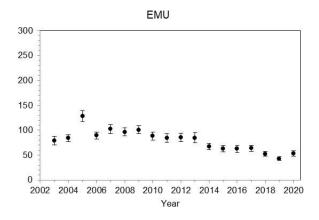
Recruitment

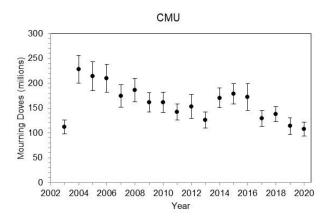
A total of 227,693 wings were obtained from 2007 to 2020 from birds harvested prior to September 15th. Overall recruitment rates were highest in the east and northwest and lowest in the Great Plains states and the southwest (Table 5). At the management unit scale, the EMU typically had higher average annual recruitment compared to the CMU and WMU (Fig. 4). In 2020, age ratio in the EMU was lower-than-average, in the CMU near the long-term average, and in the WMU below the long-term average (Table 5).

Mean population age ratios for all states and years are provided in Table 5. There was great variation in the sample sizes for individual states. However, sample sizes were sufficient to calculate precise estimates of recruitment for all states. Age ratios for Florida are not estimated because hunting seasons there do not start until late September each year. At this late date most wings cannot be aged due to molt progression, precluding accurate estimates of age ratio.

Absolute Abundance

Estimates of absolute abundance are available since 2003 (Fig. 5, Table 6). Estimates during the first 1 or 2 years may be biased in association with startup of the national mourning dove banding program when coordinators were gaining experience and some states were not yet participants. In addition, age ratio





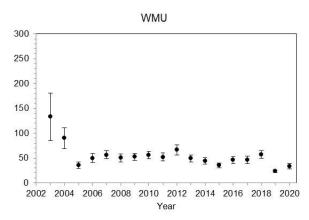


Figure 5. Estimates and 95% confidence intervals of mourning dove absolute abundance by management unit and year, 2003–2020. Estimates based on band recovery and harvest data.

information was not available for the first 4 years (the annual averages from later years were used for estimating abundance during this period). The most recent estimates indicate that there were 194 million mourning doves in the U.S. immediately prior to the

2020–21 hunting season. Abundance estimates were higher in EMU and WMU in 2020 compared to 2019, and were lower in the CMU.

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Table 1. Preliminary estimates and their standard errors (SE) of mourning dove harvest and hunter activity during the 2019–20 hunting season^a. Data rounded to nearest 100.

Management Unit	На	rvest	Active h	unters	Hunter day	/s afield	Harvest per h	nunter ^b
State	Estimate	SE	Estimate	SE	Estimate	SE	Estimate	SE
Eastern	3,656,800	136,700	242,200°	†°	643,500	42,800	†°	†°
AL	512,800	59,000	28,600	2,000	61,700	5,900	17.9	2.4
DE	20,700	3,700	1,200	200	4,000	600	17.3	3.9
FL	113,000	24,900	7,400	1,600	24,200	4,800	15.2	4.7
GA	713,600	58,600	33,400	2,200	93,300	7,100	21.3	2.2
IL	148,800	21,700	11,300	1,300	25,900	3,400	13.2	2.4
IN	112,600	16,200	8,600	1,200	21,100	2,800	13.1	2.6
KY	223,300	14,500	11,200	1,000	32,800	3,100	19.9	2.2
LA	63,800	17,200	6,100	1,400	11,200	2,500	10.5	3.8
MD	66,200	9,100	6,200	900	18,400	5,200	10.7	2.1
MS	193,400	20,900	12,700	1,200	28,400	3,500	15.2	2.2
NC	336,600	35,100	33,300	3,700	61,000	6,300	10.1	1.5
OH	93,000	17,100	10,200	1,300	25,000	3,400	9.1	2.0
PA	98,500	18,100	12,200	1,800	75,400	37,600	8.1	1.9
RI	300	100	100	<100	300	100	2.8	1.3
SC	493,200	80,500	22,400	2,500	60,900	8,000	22.0	4.4
TN	228,700	26,700	17,100	2,000	46,300	9,400	13.4	2.2
VA	186,000	15,400	13,600	1,100	33,600	3,000	13.7	1.6
WI		9,800	5,300	1,100	17,200	4,500	7.8	2.4
WV	41,400							
VVV	10,900	1,700	1,100	100	2,700	400	9.5	1.9
Central	5,266,400	335,500	337,700a	†°	986,800	50,800	†°	†°
AR	328,100	74,800	14,200	2,200	37,500	7,100	23.0	6.3
CO	106,300	9,500	10,700	800	22,800	2,000	10.0	1.2
IA	29,900	4,700	3,600	400	11,000	1,800	8.2	1.5
KS	389,800	64,200	22,300	1,900	64,800	8,500	17.5	3.3
MN	40,200	11,800	3,900	1,400	9,400	2,300	10.4	4.8
MO	268,000	28,400	21,100	1,500	47,100	3,800	12.7	1.6
MT	16,600	4,600	1,600	400	3,600	800	10.1	3.6
NE	137,700	14,100	10,700	1,000	24,500	2,500	12.8	1.8
NM	125,400	22,000	8,300	700	28,800	4,100	15.0	2.9
ND	75,000	19,500	4,100	500	11,900	2,000	18.5	5.4
OK	247,900	26,700	14,800	1,200	38,000	4,200	16.7	2.2
SD	103,300	19,100	4,700	600	15,500	2,700	22.0	4.9
TX	3,385,000	315,600	216,300	13,100	669,000	48,800	15.7	1.7
WY	13,200	2,200	1,300	200	2,800	500	10.5	2.4
Western	1,060,200	45,800	83,000ª	†°	207,200	8,700	†°	†°
AZ	235,400	15,300	13,100	500	36,500	2,000	17.9	1.3
CA							14.4	
ID	641,600 48,600	37,400 15,700	44,500 6,700	2,200 1,500	112,000	6,800 3,300	7.2	1.1 2.8
NV	,		,	500	13,400	,	7.2 8.5	
	25,300	8,400	3,000		6,200	1,200		3.1
OR	24,200	7,800	3,300	600	8,400	1,800	7.3	2.7
UT	38,700	6,300	7,600	800	17,600	2,500	5.1	1.0
WA	46,400	7,000	4,800	500	13,100	2,100	9.7	1.8
United States	9,983,500	365,100	662,900ª	†°	1,837,400	67,000	†°	†°

^aHunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance is inestimable.

^bSeasonal harvest per hunter.

^c No estimate available.

Table 2. Preliminary estimates and their standard errors (SE) of mourning dove harvest and hunter activity during the 2020–21 hunting season^a. Data rounded to nearest 100.

Management Unit	Ha	rvest	Active h	unters	Hunter day	s afield	Harvest per hunter ^b		
State	Estimate	SE	Estimate	SE	Estimate	SE	Estimate	SE	
Eastern	4,648,300	196,200	293,800a	†°	792,700	31,500	†°	†°	
AL	617,800	88,100	36,200	2,200	97,700	11,700	17.1	2.7	
DE	8,700	2,300	1,700	300	4,800	1,600	5.2	1.7	
FL	149,300	57,000	8,700	1,900	31,900	10,400	17.1	7.5	
GA	856,500	79,600	39,300	2,800	112,400	11,100	21.8	2.6	
IL	171,500	33,500	14,200	2,300	30,900	4,800	12.0	3.0	
IN	177,300	30,800	11,400	1,400	30,700	4,600	15.6	3.3	
KY	282,200	32,200	13,300	1,700	37,900	4,300	21.2	3.7	
LA	183,700	33,000	10,000	1,700	23,500	3,700	18.4	4.5	
MD	77,800	10,800	5,700	700	15,900	3,300	13.6	2.5	
MS	214,600	24,000	15,300	1,400	28,400	2,700	14.0	2.0	
NC	573,800	74,400	42,400	4,600	106,400	14,200	13.5	2.3	
OH	132,200	23,400	10,500	1,400	41,200	7,400	12.6	2.8	
PA	110,400	18,700	14,000	2,200	44,800	8,200	7.9	1.8	
RI	400	100	100	<100	400	100	3.0	1.4	
SC	353,200	53,700	21,500	2,800	48,400	6,400	16.5	3.3	
TN	467,200	79,500	26,000	2,900	69,400	10,100	17.9	3.6	
VA	213,500	22,900	16,200	1,500	42,500	5,800	13.2	1.8	
WI	50,400	10,600	6,300	1,300	22,900	5,000	8.0	2.3	
WV	7,900	1,300	,	1,300	•	500		1.7	
VVV			1,000		2,600		8.0		
Central	5,885,700	318,100	368,200 a	†°	1,171,000	79,800	†°	†°	
AR	320,300	44,600	20,000	2,300	47,600	7,300	16.1	2.9	
CO	124,600	11,800	12,700	1,000	27,200	2,500	9.8	1.2	
IA	104,600	9,000	9,700	700	25,000	2,400	10.8	1.2	
KS	366,000	60,100	22,800	2,500	62,800	9,000	16.0	3.2	
MN	63,100	28,400	7,000	2,200	23,800	7,700	9.0	5.0	
MO	318,400	39,900	24,300	1,700	63,600	6,900	13.1	1.9	
MT	32,900	13,100	2,200	500	6,600	1,900	14.9	6.8	
NE	159,900	15,900	12,400	1,200	33,600	4,300	12.9	1.8	
NM	147,400	16,600	10,600	700	37,000	3,400	13.9	1.8	
ND	75,400	11,400	4,500	600	13,900	2,800	16.8	3.3	
OK	339,600	39,300	19,000	1,800	58,200	8,800	17.9	2.7	
SD	92,800	14,800	6,000	700	14,500	1,600	15.5	3.1	
TX	3,729,300	300,600	216,100	14,000	754,800	77,400	17.3	1.8	
WY	11,300	2,300	1,000	200	2,300	500	10.8	3.1	
Western	1,170,100	56,400	83,600 a	†°	226,100	13,100	†°	†°	
AZ	355,900	19,600	17,400	600	54,100	2,600	20.4	1.3	
CA	684,500	51,600	47,800	2,400	117,900	7,700	14.3	1.3	
ID	32,700	7,500	800	100	1,900	500	10.0	3.2	
NV	7,600	2,100	4,000	900	7,700	1,900	7.6	2.9	
OR	19,500	4,000	3,100	600	17,200	9,500	6.2	1.7	
UT	26,400	4,100	6,300	800	13,300	2,200	4.2	0.9	
WA	43,500	6,400	4,400	500	11,700	1,600	10.0	1.8	
United States	11,704,100	378,000	745,600°a	†°	2,189,800	86,700	†°	+c	

^aHunter number estimates at the management unit and national levels may be biased high, because the HIP sample frames are state specific; therefore hunters are counted more than once if they hunt in >1 state. Variance is inestimable.

^bSeasonal harvest per hunter.

^c No estimate available.

Table 3. Number of mourning doves banded in each management unit, state, and year, 2003–2020. Only known-age birds banded in July or August are included in the table and used in analysis of survival and harvest rates.

Eastern	Mgmt Unit State	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
AL												
DE		,	,		,		,				,	,
FL 830 960 916 858 773 1,027 799 865 736 968 805 GA 1,424 1,161 1,336 1,136 1,234 1,489 1,258 IL 6 6 47 1,163 1,267 1,378 1,877 1,833 2,034 1,501 1,276 IN 6 1,175 1,211 1,253 1,261 963 1,008 1,312 1,162 1,418 1,312 KY 1,444 1,566 1,454 1,637 1,608 1,867 2,391 2,232 1,786 1,299 1,553 LA 1,205 655 2,412 2,581 3,516 2,347 1,955 1,826 1,738 1,622 1,729 1,650 MI 30 2 6 2 4 0 2 10 0 0 1 0 2 10 0 0 1 1,725 1,866 1,729<		,	,					,	,		,	,
GA 1.424 1,161 1,396 1,1396 1,1396 1,139 1,332 1,450 1,670 1,244 1,498 1,258 IL		-	-	-	-	-						-
IL												
IN		,				,		,				
KY 1,444 1,566 1,454 1,637 1,608 1,867 2,391 2,232 1,786 1,299 1,553 LA 1,205 655 2,412 2,581 3,516 2,347 1,955 1,826 1,738 1,362 1,729 MD 472 482 719 571 708 322 334 312 377 346 366 MI 39 26 0 2 6 2 4 0 2 10 0 0 MS 1,071 994 1,008 656 690 822 928 448 462 605 666 North Atl.* 20 4 19 34 12 12 460 1,176 1,286 967 974 NC 1,283 1,539 1,662 1,299 1,307 1,736 1,885 1,198 795 1,847 1,734 OH 1,984 2,712 2,020 1,976 1,993 1,958 2,007 955 1,264 1,393 1,300 PA 1,564 1,590 1,668 1,838 1,748 942 903 899 827 899 1,007 RI 0 0 2 0 0 0 0 0 14 22 0 0 0 13 SC 1,041 863 1,484 1,461 1,761 1,720 1,875 1,953 1,911 1,795 1,902 TN 938 1,277 1,154 1,275 866 1,199 653 854 635 651 785 VA 474 546 804 585 642 603 599 554 496 522 420 WV 714 768 626 603 600 321 348 369 339 303 388 Central 10,491 12,562 10,960 11,355 10,499 16,230 19,595 17,380 18,710 18,219 18,868 AR 782 975 1,085 914 822 710 154 1,094 2,191 2,458 1,099 877 1,094 1,284 3,494 1,490 2,191 2,458 1,099 877 1,094 3,494 3,494 2,192 2,297 70 712 111 20 467 753 670 953 984 900 1,264 1,412 1,457 1,099 987 1,694 1,238 1,078 2,216 2,089 1,649 MN 0 4 0 0 363 529 700 1,164 853 1,026 1,385 MM 0 1,426 1,412 1,457 1,099 987 1,694 1,238 1,078 2,216 2,089 1,649 NM 0 1,983 2,063 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 4 0 0 363 529 700 1,164 853 1,026 1,393 MN 0 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 1 4,426 1,421 1,457 1,099 2,377 3,388 2,453 3,211 3,385 3,739 MN 0 1 4,426 1,421 1,457 1,099 2,377 3,388 2,453 3,211 3,385 3,739 MN 0 1 4,426 1,421 1,457 1,099 2,377 3,388 2,453 3,211 3,385 3,739 MN 0 1 4,426 1,421 1,457 1,099 2,377 3,388 2,453 3,211 3,353 1,360 1,266 1,393 MN 0 1 44 0 0 363 529 700 1,164 853 1,026 1,393 MN 0 1 44 0 40 0 363 529 700 1,164 853 1,026 1,393 MN 0 1 44 0 528 715 826 1,513 2,746 1,520 0 0 69 1,488 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,606 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,606 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,606 1,303												
LA 1,205 655 2,412 2,581 3,516 2,347 1,955 1,826 1,738 1,362 1,729 MD 472 482 719 571 708 322 334 312 377 346 366 MI 39 26 0 2 6 6 2 4 0 0 2 10 0 0 MS 1,071 994 1,008 656 690 822 928 448 462 605 666 North Atl.* 20 4 19 34 12 12 460 1,176 1,286 967 974 NC 1,283 1,539 1,662 1,299 1,307 1,736 1,685 1,198 795 1,847 1,734 OH 1,984 2,712 2,020 1,976 1,993 1,958 2,007 955 1,264 1,393 1,300 PA 1,564 1,590 1,658 1,838 1,748 942 903 899 827 899 1,007 RI 0 0 2 0 0 0 0 0 0 14 22 0 0 0 13 SC 1,041 863 1,484 1,461 1,761 1,720 1,875 1,953 1,911 1,795 1,902 TN 993 1,277 1,154 1,275 866 1,199 653 854 635 651 785 VA 474 546 804 585 642 603 559 554 496 522 420 WI 7 18 561 973 836 725 761 838 807 926 895 WV 714 768 626 603 600 321 348 369 380 807 926 895 WV 714 768 626 603 600 321 348 369 330 303 3888 Central 10,491 12,562 10,960 11,355 10,499 16,230 19,595 17,380 18,710 18,219 18,868 AR 782 975 1,085 914 822 711 514 0 424 222 297 CO 7 12 11 20 467 753 670 953 984 940 1,254 IA 1,940 2,191 2,458 1,099 987 1,694 KS 1,230 1,230 1,426 1,412 1,457 1,099 987 1,694 1,238 1,078 2,216 2,089 1,694 KS 1,230 1,426 1,412 1,457 1,099 987 1,694 1,238 1,078 2,216 2,089 1,694 KS 1,230 1,426 1,245 1,457 1,099 987 1,694 1,238 1,078 2,216 2,089 1,694 KS 1,230 1,426 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,454 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 463 1,059 625 114 717 829 NM 3 11 14 4 0 464 643 1,059 625 114 717 829 NM 3 11 14 4 0 464 645 1,050 625 114 717 829 NM 3 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1		-										
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North Att. 20 4 19 34 12 12 460 1,176 1,286 967 974 NC 1,283 1,539 1,662 1,299 1,307 1,736 1,685 1,198 795 1,847 1,734 OH 1,984 2,712 2,020 1,976 1,993 1,958 2,007 955 1,264 1,393 1,300 PA 1,564 1,590 1,658 1,838 1,748 942 903 899 827 899 1,007 RI 0 0 2 0 0 0 0 0 14 22 0 0 0 13 SC 1,041 863 1,484 1,461 1,761 1,720 1,875 1,953 1,911 1,795 1,902 TN 938 1,277 1,154 1,275 866 1,199 653 854 635 651 7,865 VA 474 546 804 585 642 603 599 554 496 522 420 WI 7 18 561 973 836 725 761 838 807 926 895 WV 714 768 666 603 600 321 348 369 339 303 388 Central 10,491 12,562 10,960 11,355 10,499 16,230 19,595 17,380 18,710 18,219 18,868 AR 782 975 1,085 914 822 711 514 0 422 22 297 CO 7 12 11 20 467 753 670 953 984 940 1,254 IA 1,940 2,191 2,458 1,099 897 1,694 1,238 1,076 2,216 2,089 1,649 KS 1,230 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 0 0 0 0 322 270 296 2,23 NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,136 1,454 1,345 NM 3 11 14 4 0 463 63 1,599 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,136 1,454 1,345 NM 3 11 14 4 0 463 63 1,599 625 114 717 1,356 1,430 1,370 ND 745 1,293 1,072 976 703 782 1,136 1,454 1,345 NM 3 11 14 4 0 463 1,237 2,078 2,575 1,936 2,268 1,430 1,370 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,148 1,145 1,345 NM 3 11 14 4 0 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,143 1,345 1,345 NM 3 11 14 4 0 4 0 463 1,599 625 114 717 1,356 1,430 1,370 ND 745 1,293 1,576 1,596 6,253 9,309 3,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 NV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				-				-	-			-
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Central	WI	7	18	561	973	836		761	838	807	926	895
AR 782 975 1,085 914 822 711 514 0 424 222 297 CO 7 12 11 20 467 753 670 953 984 940 1,254 IA 1,940 2,191 2,458 1,099 987 1,694 1,238 1,078 2,216 2,089 1,649 KS 1,230 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 4 0 0 363 529 700 1,164 853 1,026 1,390 MO 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 0 0 363 529 700 1,164 853 1,026 1,390 MO 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 0 363 529 700 1,164 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 0 11 48 2 0 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 3,555 677 511 NV 0 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759	WV	714	768	626	603	600	321	348	369	339	303	388
CO 7 12 11 20 467 753 670 953 984 940 1,254 IA 1,940 2,191 2,458 1,099 987 1,694 1,238 1,078 2,216 2,089 1,649 KS 1,230 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 4 0 0 363 529 700 1,164 853 1,026 1,390 MO 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 0 0 0 322 270 296 223 NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 111 14 4 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759												
IA	AR	782	975	1,085	914	822	711	514	0	424	222	297
KS 1,230 1,426 1,412 1,457 1,099 2,377 3,388 2,445 3,211 3,385 3,739 MN 0 4 0 0 363 529 700 1,164 853 1,026 1,390 MO 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 0 0 0 322 270 296 223 NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United	CO	7	12	11	20	467	753	670	953	984	940	1,254
MN	IA	1,940	2,191	2,458	1,099	987	1,694	1,238	1,078	2,216	2,089	1,649
MO 1,983 2,063 1,739 2,219 1,729 2,512 2,861 2,903 2,296 2,168 2,453 MT 0 0 0 0 0 0 322 270 296 223 NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430	KS	1,230	1,426	1,412	1,457	1,099	2,377	3,388	2,445	3,211	3,385	3,739
MT 0 0 0 0 0 0 322 270 296 223 NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 <t< td=""><td>MN</td><td>0</td><td>4</td><td>0</td><td>0</td><td>363</td><td>529</td><td>700</td><td>1,164</td><td>853</td><td>1,026</td><td></td></t<>	MN	0	4	0	0	363	529	700	1,164	853	1,026	
NE 926 1,237 721 753 799 1,057 1,014 997 1,316 1,454 1,345 NM 3 11 14 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658	MO	1,983	2,063	1,739	2,219	1,729	2,512	2,861	2,903	2,296	2,168	2,453
NM 3 11 14 4 0 463 1,059 625 114 717 829 ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 11 48 2 0 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United	MT	0	0	0	0	0	0	0		270	296	223
ND 745 1,293 1,072 976 703 782 1,135 1,666 1,741 1,433 1,344 OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 0 11 48 2 0 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759	NE	926	1,237	721	753	799	1,057	1,014	997	1,316	1,454	1,345
OK 391 447 528 715 826 1,513 2,746 1,520 1,661 1,488 1,182 SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 0 11 48 2 0 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 730 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United	NM	3	11	14	4	0	463	1,059	625	114	717	829
SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 173 245 219 243 319	ND	745	1,293	1,072	976	703	782	1,135	1,666	1,741	1,433	1,344
SD 1,506 1,303 851 1,768 1,456 1,713 1,693 1,771 1,356 1,430 1,370 TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 173 245 219 243 319	OK	391	447	528	715	826	1,513	2,746	1,520	1,661	1,488	1,182
TX 978 1,600 1,069 1,430 1,237 2,078 2,575 1,936 2,268 1,502 1,702 WY 0 0 0 0 111 48 2 0 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759	SD	1,506	1,303	851	1,768	1,456		1,693		1,356	1,430	
WY 0 0 0 0 11 48 2 0 0 69 91 Western 3,261 3,658 4,494 4,559 6,495 6,253 9,059 9,348 7,552 8,634 8,961 AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 233 722 398 685<	TX		1.600	1.069	1.430		2.078	2.575				
AZ 1,653 1,574 1,582 2,436 2,562 2,544 3,831 3,599 3,818 3,362 3,718 CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759			,	,	,	,	,	,	,			
CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759	Western	3,261	3,658	4,494	4,559	6,495	6,253	9,059	9,348	7,552	8,634	8,961
CA 252 157 819 1,160 1,870 1,706 2,693 3,468 1,422 2,458 2,269 ID 440 854 837 730 615 594 466 453 355 677 511 NV 0 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759	AZ								3,599			
ID							,			,		
NV 0 0 0 0 0 0 120 431 488 642 729 200 OR 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United												
OR 0 0 0 0 0 173 245 219 243 319 734 UT 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United		-										
UT 0 0 0 233 722 398 685 553 323 319 770 WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United												
WA 916 1,073 1,256 0 726 718 708 568 749 770 759 United		_	-	_	-							
		_	-	_								
	United											
	States	29,404	33,674	35,596	36,776	38,711	41,944	49,963	47,203	45,208	46,378	47,240

^aCombined total for North Atlantic non-hunt states: CT, NH, ME, MA, NJ, NY, and VT.

Table 3 (continued).

Eastern	Mgmt Unit	0044	0045	0040	0047	0040	0040	0000	
AL 1,149 987 1,133 942 1,010 1,323 1,347 DE 202 38 94 92 30 169 109 FL 906 772 759 642 716 689 759 GA 954 1,336 1,152 1,132 1,466 1,650 1,810 IL 1,988 2,048 1,810 2,211 2,039 1,538 2,338 IN 1,237 977 663 1,171 982 689 764 KY 1,430 1,759 1,324 1,516 1,321 1,100 1,158 LA 1,066 1,769 1,596 1,232 1,759 1,346 1,761 MD 279 306 221 283 361 348 336 MI 0 0 0 0 0 0 0 0 0 0 0 0 0 MS 791 675 448 666 546 564 591 North Atl.3 141 118 159 191 10 3 6 NC 1,326 1,163 1,199 1,004 1,023 1,367 1,421 OH 1,336 1,312 1,316 1,314 1,072 1,300 921 PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,205 84 431 NE 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 WY 435 328 384 567 740 791 966 2,201 1,878 2,058 1,312 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,600 1,647 1,685 614 1,356 1,312 WY 435 328 384 567 741 739 486 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 D 756 770 685 657 646 657 662 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 31 3 55 306	State	2014	2015	2016	2017	2018	2019	2020	
DE								,	
FL 906 772 759 642 716 689 759 GA 954 1,336 1,152 1,132 1,466 1,650 1,810 IL 1,988 2,048 1,810 2,211 2,039 1,538 2,338 IN 1,237 977 653 1,171 982 689 764 KY 1,430 1,759 1,324 1,516 1,321 1,100 1,158 LA 1,066 1,769 1,596 1,232 1,759 1,346 1,761 MD 279 306 221 283 361 348 336 MI 0 0 0 0 0 0 0 0 0 0 0 0 0 MS 791 675 448 666 546 564 591 North Atl.* 141 118 159 191 10 3 6 NC 1,326 1,163 1,199 1,004 1,023 1,367 1,421 OH 1,336 1,312 1,316 1,314 1,072 1,300 921 PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 2255 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,242 1,294 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 3587 3388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,035 3,585 3,877 2,384 1,811 ID 756 770 685 657 646 657 662 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 31 35 52 306								•	
GA 954 1,336 1,152 1,132 1,466 1,650 1,810 IL 1,988 2,048 1,810 2,211 2,039 1,538 2,338 IN 1,237 977 653 1,171 982 689 764 KY 1,430 1,759 1,324 1,516 1,321 1,100 1,158 LA 1,066 1,769 1,596 1,232 1,759 1,346 1,761 MD 279 306 221 283 361 348 336 MI 0 0 0 0 0 0 0 0 0 0 0 0 MS 791 675 448 666 546 564 591 North Atl. 141 118 159 191 10 3 6 NC 1,326 1,163 1,199 1,004 1,023 1,367 1,421 OH 1,336 1,312 1,316 1,314 1,072 1,300 921 PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 MN 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 667 665 NV 600 401 448 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 552 306									
IL									
IN									
KY 1,430 1,759 1,324 1,516 1,321 1,100 1,158 LA 1,066 1,769 1,596 1,232 1,759 1,346 1,761 MD 279 306 221 283 361 348 336 MI 0 0 0 0 0 0 0 MS 791 675 448 666 546 564 591 North Atl.* 141 118 159 191 10 3 6 NC 1,326 1,163 1,199 1,004 1,023 1,367 1,421 OH 1,336 1,312 1,316 1,314 1,072 1,300 921 PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484									
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OH 1,336 1,312 1,316 1,314 1,072 1,300 921 PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017	North Atl.a	141	118	159	191	10	3	6	
PA 993 795 737 824 808 784 812 RI 0 55 0 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,31 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	NC	1,326	1,163	1,199		1,023	1,367	1,421	
RI 0 55 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,1197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	OH	1,336	1,312	1,316	1,314	1,072	1,300	921	
RI 0 55 0 0 0 15 29 SC 1,831 1,990 1,918 1,566 1,484 967 1,115 TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,1197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	PA	993	795	737	824	808	784	812	
TN 677 611 540 609 530 730 769 VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	RI		55	0	0	0	15	29	
VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 3	SC	1,831	1,990	1,918	1,566	1,484	967	1,115	
VA 525 580 442 492 555 540 446 WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 3	TN	677	611	540	609	530	730	769	
WI 789 800 887 746 798 873 773 WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718				442				446	
WV 373 357 384 378 366 228 235 Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682								773	
Central 21,545 19,516 19,982 18,357 15,417 16,379 15,552 AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,311 866 765 ND 1,675 1,620 1,									
AR 342 300 359 413 233 280 521 CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306									
CO 1,335 1,011 1,419 923 1,017 1,125 1,329 IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	Central	21,545	19,516	19,982	18,357	15,417	16,379	15,552	
IA 1,960 2,027 1,906 2,201 1,878 2,058 1,970 KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 </td <td>AR</td> <td>342</td> <td>300</td> <td>359</td> <td>413</td> <td>233</td> <td>280</td> <td>521</td> <td></td>	AR	342	300	359	413	233	280	521	
KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	CO	1,335	1,011	1,419	923	1,017	1,125	1,329	
KS 3,233 3,332 2,868 3,403 2,451 2,457 2,478 MN 782 388 357 490 327 604 24 MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	IA	1,960	2,027	1,906	2,201	1,878	2,058	1,970	
MO 2,997 1,966 1,983 1,465 1,635 1,242 1,294 MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 <td< td=""><td>KS</td><td>3,233</td><td>3,332</td><td></td><td>3,403</td><td>2,451</td><td>2,457</td><td>2,478</td><td></td></td<>	KS	3,233	3,332		3,403	2,451	2,457	2,478	
MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 <td< td=""><td>MN</td><td>782</td><td>388</td><td>357</td><td>490</td><td>327</td><td>604</td><td>24</td><td></td></td<>	MN	782	388	357	490	327	604	24	
MT 417 439 283 330 330 549 431 NE 1,505 1,357 1,718 1,458 1,101 1,094 1,207 NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 <td< td=""><td>MO</td><td>2,997</td><td>1,966</td><td>1,983</td><td>1,465</td><td>1,635</td><td>1,242</td><td>1,294</td><td></td></td<>	MO	2,997	1,966	1,983	1,465	1,635	1,242	1,294	
NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498	MT	417	439	283	330	330	549	431	
NM 661 701 682 855 1,131 866 765 ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498	NE	1,505	1,357	1,718	1,458	1,101	1,094	1,207	
ND 1,675 1,620 1,647 1,685 614 1,356 1,312 OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 7								•	
OK 1,561 1,604 1,402 1,154 740 971 688 SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306			1.620						
SD 1,872 2,052 2,329 1,278 1,197 916 1,038 TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306								•	
TX 2,770 2,391 2,645 2,115 2,022 2,123 1,999 WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306									
WY 435 328 384 587 741 739 496 Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306								,	
Western 10,139 10,951 9,110 9,098 10,195 8,529 7,733 AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306		,		,	,	,	,	,	
AZ 3,319 2,983 3,032 3,388 3,532 3,445 2,987 CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306									
CA 3,510 4,535 3,293 3,265 3,877 2,384 1,811 ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	Western	10,139	10,951	9,110	9,098	10,195	8,529	7,733	
ID 756 770 685 657 646 657 652 NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	AZ	3,319	2,983	3,032	3,388	3,532	3,445	2,987	
NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	CA	3,510	4,535	3,293	3,265	3,877	2,384	1,811	
NV 600 401 498 415 458 636 444 OR 1,122 1,057 737 697 886 860 961 UT 349 282 59 73 13 52 306	ID	756	770	685	657	646	657	652	
UT 349 282 59 73 13 52 306	NV	600	401	498	415	458		444	
UT 349 282 59 73 13 52 306	OR	1,122	1,057	737	697	886	860	961	
WA 483 923 806 603 783 495 572	WA	483	923	806	603	783	495	572	
United	United								
States 49,677 48,915 45,864 43,524 42,488 41,133 40,785				45,864	43,524	42,488		40,785	

^aCombined total for North Atlantic non-hunt states: CT, NH, ME, MA, NJ, NY, and VT.

Table 4. Estimates of mean annual survival and harvest rate of mourning doves by management unit and state that banded doves, 2003–2020. Estimates by age-class: hatch-year (HY) and after-hatch-year (AHY). Standard errors are in parentheses.

Management Unit		Annual				Annual Har		
State		(SE)	AHY			(SE)	AHY (
Eastern	0.269	(0.006)	0.409	(0.004)	0.090	(0.001)	0.061	(0.001)
AL	0.274	(0.019)	0.399	(0.017)	0.103	(0.007)	0.067	(0.005)
DE-MD ^a	0.283	(0.024)	0.370	(0.020)	0.127	(0.009)	0.091	(0.007)
FL	0.275	(0.032)	0.442	(0.023)	0.040	(0.006)	0.034	(0.005)
GA	0.276	(0.016)	0.409	(0.013)	0.132	(0.004)	0.083	(0.005)
IL	0.277	(0.017)	0.374	(0.017)	0.073	(0.003)	0.050	(0.004)
IN	0.251	(0.023)	0.397	(0.014)	0.086	(0.007)	0.078	(0.005)
KY	0.323	(0.019)	0.413	(0.012)	0.067	(0.004)	0.054	(0.004)
LA	0.306	(0.011)	0.443	(0.014)	0.112	(0.005)	0.059	(0.007)
MS	0.207	(0.016)	0.407	(0.018)	0.155	(800.0)	0.090	(0.005)
North Atlb	0.316	(0.089)	0.570	(0.067)	0.005	(800.0)	0.004	(0.003)
NC	0.204	(0.014)	0.378	(0.013)	0.101	(0.007)	0.065	(0.004)
ОН	0.265	(0.020)	0.385	(0.015)	0.056	(0.003)	0.041	(0.004)
PA	0.219	(0.022)	0.417	(0.025)	0.046	(0.006)	0.021	(0.004)
SC	0.279	(0.014)	0.422	(0.011)	0.098	(0.005)	0.061	(0.003)
TN	0.203	(0.016)	0.398	(0.017)	0.118	(0.005)	0.080	(0.005)
VA	0.353	(0.038)	0.445	(0.023)	0.031	(0.005)	0.041	(0.004)
WI	0.321	(0.028)	0.475	(0.025)	0.052	(0.005)	0.030	(0.004)
WV	0.419	(0.049)	0.447	(0.043)	0.025	(0.004)	0.021	(0.002)
Central	0.270	(0.007)	0.451	(0.004)	0.066	(0.001)	0.051	(0.001)
AR	0.220	(0.023)	0.411	(0.021)	0.092	(0.012)	0.064	(0.006)
CO	0.528	(0.048)	0.474	(0.026)	0.014	(0.002)	0.029	(0.004)
IA	0.253	(0.016)	0.475	(0.014)	0.043	(0.008)	0.030	(0.007)
KS	0.313	(0.017)	0.468	(0.011)	0.066	(0.005)	0.059	(0.003)
MN	0.363	(0.036)	0.549	(0.025)	0.025	(0.003)	0.014	(0.003)
MO	0.157	(800.0)	0.373	(0.009)	0.155	(0.009)	0.129	(0.007)
MT	0.292	(0.069)	0.523	(0.061)	0.020	(0.005)	0.014	(0.003)
ND	0.440	(0.032)	0.575	(0.019)	0.012	(0.001)	0.008	(0.001)
NE	0.341	(0.031)	0.449	(0.016)	0.023	(0.002)	0.029	(0.002)
NM	0.496	(0.077)	0.582	(0.051)	0.014	(0.003)	0.009	(0.002)
OK	0.256	(0.017)	0.414	(0.018)	0.082	(0.008)	0.064	(0.007)
SD	0.421	(0.019)	0.475	(0.014)	0.029	(0.003)	0.024	(0.003)
TX	0.337	(0.021)	0.473	(0.014)	0.058	(0.004)	0.042	(0.004)
WY	0.311	(0.122)	0.525	(0.071)	0.013	(0.002)	0.009	(0.001)
Western	0.304	(0.013)	0.439	(0.007)	0.042	(0.001)	0.036	(0.001)
AZ	0.304	(0.022)	0.422	(0.016)	0.022	(0.003)	0.016	(0.001)
CA	0.303	(0.018)	0.437	(0.011)	0.061	(0.005)	0.062	(0.006)
ID	0.348	(0.045)	0.491	(0.026)	0.026	(0.003)	0.021	(0.003)
NV	0.276	(0.041)	0.488	(0.034)	0.043	(0.007)	0.036	(0.004)
OR	0.351	(0.042)	0.418	(0.032)	0.031	(0.007)	0.035	(0.004)
UT	0.254	(0.049)	0.452	(0.056)	0.024	(0.005)	0.016	(0.003)
WA	0.297	(0.023)	0.432	(0.024)	0.053	(0.005)	0.038	(0.007)
Data combined for Del			J. 10L	(0.02.1)	0.000	(0.000)	0.000	(5.557)

^aData combined for Delaware and Maryland. ^bData combined for North Atlantic states: CT, NH, ME, MA, NJ, NY, RI, and VT.

Table 5. Estimated age ratios (juveniles per adult) by management unit and state based on the Parts Collection Survey, 2007–2020. Age ratios are corrected for unknown age wings and differential vulnerability. Sample size is the number of wings examined. Standard errors are in parentheses.

Manageme		073			6.5.5				65.		65.	
State		07 ^a	200		200		201		201		201	
Eastern AL	1.73	(0.04)	1.42	(0.03)	1.35	(0.03)	1.30	(0.02)	1.83	(0.04)	1.81	(0.04)
DE	3.79	(2.69)	1.25	(0.17)	1.95	(0.29)	1.35	(0.10)	2.14	(0.19)	2.74	(0.27)
	1.15	(0.16)	1.88	(0.23)	0.89	(0.18)	1.60	(0.24)	3.21	(0.45)	1.47	(0.17)
GA	3.13	(0.40)	1.70	(0.24)	1.43	(0.18)	1.77	(0.20)	3.51	(0.48)	2.09	(0.18)
IL.	1.85	(0.11)	1.21	(80.0)	1.47	(0.11)	1.29	(0.08)	1.51	(0.12)	2.50	(0.21)
IN	1.62	(0.07)	1.80	(0.15)	1.54	(0.11)	1.15	(0.06)	2.00	(0.12)	1.60	(0.12)
KY	1.68	(0.14)	1.18	(0.17)	1.58	(0.17)	1.77	(0.14)	1.65	(0.12)	1.69	(0.14)
LA	1.09	(0.13)	1.61	(0.25)	2.26	(0.31)	2.30	(0.26)	2.94	(0.58)	1.60	(0.25)
MD	2.07	(0.21)	1.52	(0.19)	1.24	(0.13)	1.39	(0.12)	1.45	(0.14)	1.93	(0.15)
MS	1.42	(0.14)	1.57	(0.16)	1.81	(0.17)	1.07	(0.07)	1.38	(0.13)	1.70	(0.24)
NC	1.80	(0.14)	1.67	(0.14)	1.40	(0.09)	1.04	(0.05)	1.73	(0.13)	1.45	(0.09)
ОН	2.06	(0.19)	2.26	(0.29)	1.42	(0.16)	0.87	(0.07)	1.75	(0.15)	2.36	(0.29)
PA	1.35	(0.14)	1.03	(0.11)	0.93	(0.10)	1.03	(0.11)	1.91	(0.24)	1.62	(0.18)
RI⁵												
SC	1.91	(0.12)	1.39	(0.09)	1.17	(80.0)	1.55	(0.09)	2.37	(0.16)	1.50	(0.10)
TN	1.82	(0.28)	1.34	(0.20)	1.13	(0.11)	1.51	(0.14)	2.13	(0.21)	3.25	(0.36)
VA	1.79	(0.11)	1.23	(0.07)	0.88	(0.07)	1.19	(0.06)	1.38	(80.0)	1.58	(80.0)
WI	1.00	(0.18)	1.58	(0.17)	1.24	(0.18)	2.04	(0.23)	1.27	(0.19)	2.04	(0.27)
WV	1.93	(0.24)	2.56	(0.58)	1.16	(0.19)	1.62	(0.25)	2.09	(0.32)	1.39	(0.22)
Central	1.04	(0.02)	0.95	(0.02)	0.84	(0.02)	0.99	(0.02)	1.13	(0.02)	1.50	(0.03)
AR	1.09	(0.10)	2.77	(0.35)	1.27	(0.11)	1.19	(0.10)	1.52	(0.14)	2.54	(0.27)
CO	1.12	(0.06)	1.09	(0.07)	0.83	(0.06)	1.43	(0.09)	1.37	(0.10)	1.12	(0.11)
IA	†°	t	†	†	†	†	†	†	2.07	(0.59)	1.54	(0.16)
KS	1.32	(0.07)	0.99	(0.07)	0.89	(0.07)	1.11	(0.07)	1.10	(0.07)	1.46	(0.11)
MN	1.26	(0.90)	0.54	(0.33)	2.51	(0.72)	6.41	(3.83)	0.98	(0.10)	2.06	(0.18)
MO	1.62	(0.12)	0.93	(0.07)	0.94	(0.06)	1.21	(0.10)	1.58	(0.11)	1.96	(0.13)
MT	1.30	(0.16)	0.68	(0.09)	1.45	(0.23)	1.49	(0.17)	1.85	(0.26)	1.27	(0.16)
ND	1.07	(0.15)	0.92	(0.11)	1.39	(0.26)	0.65	(0.09)	0.99	(0.10)	1.56	(0.16)
NE	0.68	(0.04)	0.83	(0.06)	0.80	(0.09)	1.02	(0.07)	0.82	(0.05)	1.49	(0.11)
NM	0.55	(0.08)	0.35	(0.04)	0.48	(0.04)	0.59	(0.04)	0.71	(0.07)	0.68	(0.06)
OK	1.41	(0.17)	1.35	(0.10)	1.15	(0.07)	1.05	(0.06)	1.76	(0.14)	1.72	(0.16)
SD	1.07	(0.09)	0.89	(0.07)	1.08	(0.11)	1.05	(0.10)	1.18	(0.11)	1.73	(0.15)
TX	0.78	(0.05)	1.24	(0.07)	0.67	(0.04)	0.86	(0.04)	1.21	(0.05)	1.47	(0.07)
WY	1.32	(0.16)	0.90	(0.10)	0.75	(0.10)	1.68	(0.16)	1.51	(0.14)	1.05	(0.13)
Western	1.05	(0.03)	1.29	(0.04)	1.17	(0.04)	1.15	(0.03)	1.11	(0.03)	1.34	(0.04)
AZ	0.52	(0.03)	0.85	(0.04)	0.72	(0.04)	0.74	(0.04)	0.74	(0.04)	0.72	(0.05)
CA	1.22	(0.08)	1.45	(0.08)	1.23	(0.10)	1.15	(0.06)	1.15	(0.06)	1.35	(0.07)
ID	1.12	(0.10)	0.88	(0.17)	1.52	(0.16)	1.56	(0.18)	1.45	(0.25)	1.56	(0.15)
NV	1.13	(0.11)	1.09	(0.21)	0.97	(0.13)	0.96	(0.08)	1.14	(0.11)	1.28	(0.13)
OR	1.75	(0.29)	1.42	(0.60)	1.10	(0.18)	2.24	(0.28)	0.98	(0.16)	0.98	(0.13)
UT	1.19	(0.16)	0.73	(0.09)	0.69	(0.14)	0.79	(0.09)	1.17	(0.11)	1.36	(0.19)
WA	1.50	(0.10)	1.62	(0.12)	1.55	(0.15)	1.41	(0.12)	1.53	(0.13)	1.66	(0.15)

^a Standard errors for estimates only incorporate sampling error for the proportion of young in the sample and do not incorporate additional uncertainty from correction factors for unknown age wings and differential vulnerability.

^b Insufficient data to estimate age ratio for RI in most years.

^c lowa did not have a hunting season until 2011.

Table 5 (continued).

Manageme	ent Unit											
State		13ª	201	4	201	15	201		20	17	201	18
Eastern	1.33	(0.03)	1.42	(0.04)	1.31	(0.04)	1.31	(0.05)	1.54	(0.04)	1.49	(0.04)
AL	1.67	(0.18)	1.10	(0.10)	1.56	(0.17)	1.86	(0.26)	1.57	(0.23)	1.62	(0.23)
DE	1.97	(0.37)	1.30	(0.21)	0.42	(0.11)	0.96	(0.26)	29.34	(18.61)	1.28	(0.44)
GA	1.45	(0.11)	1.70	(0.16)	1.30	(0.12)	1.69	(0.16)	1.63	(0.12)	1.70	(0.13)
IL	1.36	(0.11)	1.48	(0.12)	1.15	(0.12)	0.93	(0.12)	1.28	(0.13)	1.70	(0.16)
IN	1.49	(0.12)	1.28	(0.12)	1.05	(0.09)	0.93	(0.13)	1.41	(0.14)	2.21	(0.21)
KY	1.23	(0.10)	1.41	(0.12)	1.18	(0.15)	1.29	(0.18)	1.49	(0.12)	1.46	(0.13)
LA	1.82	(0.29)	1.01	(0.76)	5.29	(2.89)	0.86	(0.26)	1.28	(0.28)	1.47	(0.23)
MD	1.64	(0.18)	1.78	(0.25)	1.69	(0.29)	2.76	(0.58)	2.50	(0.40)	1.82	(0.29)
MS	1.19	(0.12)	1.38	(0.15)	1.50	(0.18)	0.96	(0.18)	1.96	(0.23)	0.79	(0.11)
NC	1.12	(0.08)	1.01	(0.09)	0.97	(80.0)	0.83	(0.10)	1.81	(0.16)	1.58	(0.16)
ОН	1.35	(0.15)	2.14	(0.22)	0.95	(0.10)	1.59	(0.26)	1.40	(0.18)	1.92	(0.31)
PA	1.27	(0.17)	1.30	(0.23)	1.57	(0.26)	1.04	(0.19)	0.93	(0.14)	1.28	(0.18)
RI^b			0.76	(0.76)			0.67	(0.61)				
SC	1.28	(0.12)	1.88	(0.18)	1.94	(0.23)	2.85	(0.35)	1.80	(0.19)	1.23	(0.12)
TN	1.38	(0.16)	2.01	(0.25)	1.36	(0.16)	1.19	(0.31)	1.44	(0.20)	1.82	(0.25)
VA	0.98	(0.09)	1.16	(0.15)	2.35	(0.31)	0.92	(0.11)	1.55	(0.19)	1.11	(0.12)
WI	1.64	(0.20)	1.39	(0.19)	2.78	(0.55)	3.14	(0.84)	1.34	(0.28)	2.35	(0.45)
WV	0.95	(0.32)	3.98	(1.19)	2.74	(0.71)	0.94	(0.23)	1.13	(0.17)	0.89	(0.17)
Central	1.16	(0.03)	1.12	(0.03)	0.99	(0.03)	1.07	(0.05)	1.23	(0.03)	1.15	(0.03)
AR	1.51	(0.15)	0.82	(0.10)	1.27	(0.15)	1.15	(0.17)	1.21	(0.16)	0.99	(0.15)
CO	1.62	(0.15)	1.48	(0.14)	0.92	(0.07)	1.09	(0.17)	1.35	(0.12)	0.84	(0.06)
IA	1.26	(0.21)	1.16	(0.13)	0.78	(0.09)	0.88	(0.19)	1.38	(0.10)	1.37	(0.15)
KS	1.37	(0.20)	1.50	(0.13)	1.00	(80.0)	1.00	(0.17)	1.32	(0.09)	1.25	(0.11)
MN	1.24	(0.16)	1.45	(0.25)	1.05	(0.21)	1.15	(0.41)	1.57	(0.36)	2.11	(0.53)
MO	1.07	(0.12)	1.93	(0.26)	2.41	(0.31)	1.17	(0.23)	1.42	(0.11)	2.19	(0.15)
MT	1.40	(0.26)	1.42	(0.26)	0.98	(0.12)	0.53	(0.14)	1.62	(0.22)	0.78	(0.10)
ND	1.23	(0.13)	1.24	(0.13)	1.32	(0.11)	1.00	(0.23)	2.12	(0.22)	1.28	(0.10)
NE	0.82	(0.08)	0.77	(0.10)	0.81	(0.09)	1.21	(0.23)	1.17	(0.11)	0.73	(0.06)
NM	0.52	(0.07)	0.41	(0.06)	0.77	(0.14)	0.84	(0.21)	0.46	(0.06)	0.61	(0.10)
OK	1.75	(0.19)	0.89	(0.10)	1.32	(0.15)	1.78	(0.29)	1.81	(0.20)	1.84	(0.30)
SD	1.07	(0.10)	0.93	(0.08)	0.91	(0.09)	0.97	(0.20)	1.15	(0.13)	1.29	(0.10)
TX	1.40	(0.11)	1.56	(0.10)	1.14	(0.10)	1.22	(0.16)	0.99	(0.06)	1.32	(0.09)
WY	2.06	(0.33)	0.89	(0.10)	0.81	(0.08)	2.27	(1.74)	1.03	(0.15)	0.71	(0.12)
Western	1.72	(0.08)	1.33	(0.06)	1.35	(0.05)	1.03	(0.06)	1.50	(0.06)	1.03	(0.04)
AZ	1.38	(0.13)	0.75	(0.05)	0.97	(0.06)	0.79	(0.06)	1.03	(0.06)	0.65	(0.05)
CA	1.62	(0.16)	1.54	(0.12)	1.41	(0.12)	1.44	(0.20)	1.71	(0.14)	1.30	(0.10)
ID	1.64	(0.17)	1.58	(0.17)	1.68	(0.21)	1.06	(0.15)	1.61	(0.18)	0.91	(0.12)
NV	1.30	(0.23)	0.93	(0.15)	1.57	(0.23)	0.58	(0.26)	1.17	(0.18)	0.85	(0.11)
OR	1.52	(0.18)	1.77	(0.39)	1.43	(0.26)	1.35	(0.34)	1.07	(0.27)	2.06	(0.42)
UT	1.27	(0.21)	1.70	(0.25)	0.85	(0.12)	0.76	(0.20)	1.85	(0.33)	1.71	(0.30)
WA	2.20	(0.26)	2.30	(0.48)	1.87	(0.25)	0.68	(0.16)	2.37	(0.27)	1.12	(0.15)

^a Standard errors for estimates only incorporate sampling error for the proportion of young in the sample and do not incorporate additional uncertainty from correction factors for unknown age wings and differential vulnerability.
^b Insufficient data to estimate age ratio for RI in most years.

Table 5 (continued).

						2007–2020		
Managemer	nt Unit				Sample			•
State	2019) ^a	20	20	Size	Mean	SE	
Eastern	1.69	(0.05)	1.27	(0.04)	95,537	1.48	(0.01)	
AL	2.06	(0.35)	1.12	(0.30)	4,373	1.65	(0.05)	
DE	3.71	(1.89)	1.32	(0.25)	2,086	1.50	(0.07)	
GA	2.01	(0.18)	0.90	(0.10)	6,538	1.70	(0.04)	
IL	1.72	(0.19)	1.21	(0.18)	8,491	1.46	(0.03)	
IN	1.47	(0.15)	1.66	(0.18)	10,655	1.51	(0.03)	
KY	2.45	(0.23)	1.60	(0.14)	7,284	1.55	(0.04)	
LA	1.29	(0.26)	0.71	(0.18)	2,034	1.63	(0.07)	
MD	2.60	(0.48)	1.79	(0.29)	4,295	1.69	(0.05)	
MS	1.46	(0.22)	1.37	(0.20)	5,070	1.33	(0.04)	
NC	1.89	(0.22)	1.00	(0.12)	9,238	1.31	(0.03)	
ОН	0.95	(0.29)	1.26	(0.21)	4,625	1.48	(0.04)	
PA	0.85	(0.18)	1.56	(0.22)	3,405	1.18	(0.04)	
RI⁵		`		`	35	4.29	(1.85)	
SC	1.89	(0.19)	1.22	(0.17)	9,220	1.63	(0.04)	
TN	1.36	(0.23)	1.12	(0.26)	3,776	1.62	(0.05)	
VA	1.15	(0.11)	1.14	(0.12)	10,049	1.28	(0.03)	
WI	2.07	(0.36)	2.35	(0.56)	2,594	1.63	(0.07)	
WV	1.29	(0.23)	0.85	(0.18)	1,804	1.42	(0.07)	
		(/		(/	,		(/	
Central	1.17	(0.04)	1.11	(0.04)	86,977	1.09	(0.01)	
AR	1.85	(0.47)	1.38	(0.25)	4,581	1.36	(0.04)	
CO	1.12	(0.10)	1.05	(0.11)	9,219	1.14	(0.02)	
IA	1.10	(0.11)	1.05	(0.10)	3,286	1.16	(0.04)	
KS	1.05	(0.14)	0.91	(0.12)	8,922	1.15	(0.02)	
MN	0.90	(0.20)	1.57	(0.26)	2,012	1.31	(0.06)	
MO	1.46	(0.13)	1.09	(0.12)	8,208	1.43	(0.03)	
MT	1.72	(0.27)	1.44	(0.26)	2,844	1.20	(0.05)	
ND	1.43	(0.14)	1.14	(0.14)	4,782	1.24	(0.04)	
NE	0.94	(0.09)	1.13	(0.10)	7,996	0.89	(0.02)	
NM	0.59	(0.10)	0.53	(0.10)	4,472	0.55	(0.02)	
OK	0.94	(0.12)	0.77	(80.0)	6,785	1.29	(0.03)	
SD	1.73	(0.17)	1.17	(0.13)	6,440	1.13	(0.03)	
TX	1.25	(0.12)	1.09	(0.11)	13,966	1.09	(0.02)	
WY	2.40	(0.61)	1.58	(0.30)	3,464	1.14	(0.04)	
	2.10	(0.01)	1.00	(0.00)	0, 10 1		(0.01)	
Western	1.14	(0.04)	0.87	(0.04)	45,179	1.20	(0.01)	
AZ	0.75	(0.04)	0.52	(0.04)	15,298	0.70	(0.01)	
CA	1.38	(0.08)	1.03	(80.0)	12,527	1.31	(0.02)	
ID	0.81	(0.16)	2.27	(0.82)	3,819	1.37	(0.04)	
NV	1.40	(0.27)	c	(0.02)	3,181	1.10	(0.04)	
OR	2.19	(0.48)	1.36	(0.28)	1,955	1.48	(0.07)	
UT	0.88	(0.14)	1.26	(0.25)	2,688	1.07	(0.04)	
WA	2.26	(0.14)	1.74	(0.28)	5,711	1.62	(0.04)	

^a Standard errors for estimates only incorporate sampling error for the proportion of young in the sample and do not incorporate additional uncertainty from correction factors for unknown age wings and differential vulnerability.
^b Insufficient data to estimate age ratio for RI in most years.
^c Insufficient data to estimate age ratio for NV in 2020.

Table 6. Estimates of absolute abundance of mourning doves on 1 September each year based on band recovery and harvest data by year and management unit in the U.S., 2003–2020.

			Manageme	nt Unit				
	Easte	rn	Centr	al	West	ern	Total (United	d States)
Year	N	SE	N	SE	N	SE	N	SE
2003	79,154,321	4,211,498	111,609,299	7,008,965	133,009,176	24,632,880	323,772,795	25,954,597
2004	84,356,096	3,544,909	228,169,691	14,444,029	89,904,924	10,890,758	402,430,711	18,433,799
2005	128,683,065	5,408,749	213,977,992	14,768,189	35,704,697	3,144,598	378,365,754	16,038,780
2006	89,319,596	3,610,640	210,108,740	14,289,538	49,884,911	4,707,174	349,313,247	15,472,075
2007	102,135,753	4,593,250	174,153,485	11,633,609	56,002,423	4,141,996	332,291,660	13,175,543
2008	96,646,892	3,980,309	186,193,535	12,070,199	50,214,812	4,222,236	333,055,240	13,392,529
2009	100,752,349	4,139,379	161,096,503	9,848,875	52,489,867	3,673,152	314,338,719	11,297,205
2010	88,459,897	4,095,716	161,028,300	10,378,064	55,760,146	3,947,119	305,248,344	11,834,646
2011	84,263,204	4,378,879	142,122,321	8,085,318	51,789,619	4,120,782	278,175,143	10,076,100
2012	85,521,639	4,356,184	153,308,876	12,614,214	66,538,068	5,238,038	305,368,583	14,336,379
2013	84,801,646	5,359,551	126,037,083	8,402,230	49,178,051	3,703,235	260,016,780	10,631,849
2014	67,357,105	3,430,438	170,391,830	10,186,979	43,886,035	3,235,750	281,634,970	11,225,530
2015	63,209,108	3,284,388	178,422,372	10,376,261	35,115,690	2,408,306	276,747,170	11,146,925
2016	62,451,100	3,525,377	171,715,772	13,739,721	45,857,068	3,491,498	280,023,939	14,608,175
2017	63,543,969	3,246,544	129,128,203	8,270,852	46,075,465	3,893,183	238,747,638	9,700,717
2018	52,476,017	2,547,076	137,763,546	7,738,722	57,176,994	3,805,201	247,416,558	8,991,940
2019	42,920,053	2,032,488	113,561,181	8,550,527	23,282,277	1,560,732	179,763,511	8,926,276
2020	52,929,476	2,681,780	107,536,524	7,009,523	33,664,084	2,788,402	194,130,084	8,006,281

Appendix A. Federal framework dates, season length, and daily bag limit for mourning dove hunting in the U.S. by management unit, 1918–2021.

				Manageme	nt Unit				
	Easte	rn		Centra	al	-	Wester	n	
Year	Dates ^a	Days	Bag	Dates	Days	Bag	Dates	Days	Bag
1918	Sep 1-Dec 31	107	25	Sep 1–Dec 15	106	25	Sep 1-Dec 15	106	25
1919–22	Sep 1–Jan 31	108	25	Sep 1–Dec 15	106	25	Sep 1–Dec 15	106	25
1923-28	Sep 1-Jan 31	108	25	Sep 1–Dec 31	106	25	Sep 1-Dec 15	106	25
1929	Sep 1–Jan 31	106	25	Sep 1–Dec 31	106	25	Sep 1-Dec 15	106	25
1930	Sep 1–Jan 31	108	25	Sep 1–Dec 15	106	25	Sep 1-Dec 15	106	25
1931	Sep 1–Jan 31	106	25	Sep 1–Dec 15	106	25	Sep 1-Dec 15	106	25
1932-33	Sep 1–Jan 31	106	18	Sep 1-Dec 15	106	18	Sep 1-Dec 15	106	18
1934	Sep 1–Jan 31	106	18	Sep 1-Jan 15	106	18	Sep 1–Dec 15	106	18
1935	Sep 1–Jan 31	107	20	Sep 1–Jan 16	106	20	Sep 1–Jan 05	107	20
1936	Sep 1–Jan 31	77	20	Sep 1-Jan 16	76	20	Sep 1–Nov 15	76	20
1937⁵	Sep 1–Jan 31	77	15	Sep 1-Nov 15	76	15	Sep 1-Nov 15	76	15
1938	Sep 1–Jan 31	78	15	Sep 1-Nov 15	76	15	Sep 1-Nov 15	76	15
1939	Sep 1–Jan 31	78	15	Sep 1–Jan 31	77	15	Sep 1-Nov 15	76	15
1940	Sep 1–Jan 31	77	12	Sep 1–Jan 31	76	12	Sep 1-Nov 15	76	12
1941	Sep 1–Jan 31	62	12	Sep 1–Oct 27	42	12	Sep 1–Oct 12	42	12
1942	Sep 1–Oct 15	30	10	Sep 1–Oct 27	42	10	Sep 1–Oct 12	42	10
1943	Sep 1–Dec 24	30	10	Sep 1–Dec 19	42	10	Sep 1–Oct 12	42	10
1944	Sep 1-Jan 20	58	10	Sep 1–Jan 20	57	10	Sep 1–Oct 25	55	10
1945	Sep 1–Jan 31	60	10	Sep 1–Jan 31	60	10	Sep 1–Oct 30	60	10
1946	Sep 1–Jan 31	61	10	Sep 1–Jan 31	60	10	Sep 1–Oct 30	60	10
1947–48°	Sep 1–Jan 31	60	10	Sep 1–Dec 3	60	10	Sep 1–Oct 30	60	10
1949	Sep 1–Jan 15	30	10	Sep 1–Nov 14	45	10	Sep 1–Oct 35	45	10
1950	Sep 1–Jan 15	30	10	Sep 1–Dec 3	45	10	Sep 1–Oct 15	45	10
1951	Sep 1–Jan 15	30	8	Sep 1- Dec 24	42	10	Sep 1–Oct 15	45	10
1952	Sep 1–Jan 10	30	8	Sep 1–Nov 6	42	10	Sep 1–Oct 13	42	10
1952	Sep 1–Jan 10	30	8	Sep 1–Nov 9	42	10	Sep 1–Oct 12	42	10
1953 1954 ^d	Sep 1–Jan 10	40	8	Sep 1–Nov 9 Sep 1–Nov 9	40	10	Sep 1–Oct 12	40	10
1955	•	45		•	45	10	Sep 1–Dec 31	45	10
1955 1956°	Sep 1 Jan 10	45 55	8 8	Sep 1–Nov 28	45 55	10	•	50	
	Sep 1–Jan 10			Sep 1–Jan 10			Sep 1–Jan 10		10
1957	Sep 1–Jan 10	60 65	10	Sep 1–Jan 10	60 65	10	Sep 1–Jan 10	50 50	10
1958–59	Sep 1–Jan 15	65 700	10	Sep 1–Jan 15	65	10	Sep 1–Jan 15	50	10
1960–61 ^f	Sep 1–Jan 15	70 ^g	12	Sep 1–Jan 15	60	15	Sep 1–Jan 15	50	10
1962	Sep 1–Jan 15	70 ⁹	12	Sep 1–Jan 15	60	12	Sep 1–Jan 15	50	10
1963	Sep 1–Jan 15	70 ⁹	10	Sep 1–Jan 15	60	10	Sep 1–Jan 15	50	10
1964–67	Sep 1–Jan 15	70 ⁹	12	Sep 1–Jan 15	60	12	Sep 1–Jan 15	50	12
1968	Sep 1–Jan 15	70 ⁹	12	Sep 1–Jan 15	60	12	Sep 1–Jan 15	50	10
1969–70	Sep 1–Jan 15	70 ^g	18 ^h	Sep 1–Jan 15	60	10	Sep 1–Jan 15	50	10
1971–79	Sep 1–Jan 15	70 ^g	12	Sep 1–Jan 15	60	10	Sep 1–Jan 15	50	10
1980	Sep 1–Jan 15	70	12	Sep 1–Jan 15	60	10	Sep 1–Jan 15	70 ^j	10 ^k
1981	Sep 1–Jan 15	70	12	Sep 1–Jan 15 ⁱ	45 ¹	15 ¹	Sep 1–Jan 15	70 ^j	10 ^k
1982	Sep 1-Jan 15	45 ^m	15 ^m	Sep 1–Jan 15 ⁱ	45 ^m	15 ^m	Sep 1–Jan 15	45 ^m	15 ^m
1983–86	Sep 1–Jan 15	60 ^m	15 ^m	Sep 1–Jan 15 ¹	60 ^m	15 ^m	Sep 1–Jan 15	60 ^m	15 ^m
1987–07 ⁿ	Sep 1–Jan 15	60 ^m	15 ^m	Sep 1–Jan 15 ⁱ	60 ^m	15 ^m	Sep 1–Jan 15	60°	10
2008	Sep 1–Jan 15	70	15	Sep 1–Jan 15 ⁱ	60 ^m	15 ^m	Sep 1-Jan 15	60°	10
2009-13	Sep 1–Jan 15	70	15	Sep 1–Jan 15 ⁱ	70	15	Sep 1-Jan 15	60°	10
2014	Sep 1–Jan 15	90	15	Sep 1–Jan 15 i	70	15	Sep 1–Jan 15	60°	15
2015	Sep 1–Jan 15	90	15	Sep 1–Jan 15	70	15	Sep 1–Jan 15	60	15 ^p
2016-17	Sep 1–Jan 15	90	15	Sep 1–Jan 15 ⁱ	90	15	Sep 1–Jan 15	60	15 ^p
2018-20	Sep 1–Jan 31	90	15	Sep 1–Jan 15 ⁱ	90	15	Sep 1–Jan 15	60	15 ^p

^a From 1918–1947, seasons for doves and other "webless" species were selected independently and the dates were the earliest opening and latest closing dates chosen. Dates were inclusive. There were different season lengths in various states with some choosing many fewer days than others. Only bag and possession limits, and season dates were specified.

^b Beginning in 1937, the bag and possession limit included white-winged doves in selected states.

[°] From 1948–1953, states permitting dove hunting were listed by waterfowl flyway. Only bag and possession limits, and season dates were specified.

d In 1954–1955, states permitting dove hunting were listed separately. Only bag and possession limits, and season dates were specified.

Appendix A. Continued.

- ^e From 1956–1959, states permitting dove hunting were listed separately. Framework opening and closing dates for seasons (but no maximum days for season length) were specified for the first time along with bag and possession limits.
 - f In 1960, states were grouped by management unit for the first time. Maximum season length was specified for the first time.
 - g Half days.
 - ^h More liberal limits allowed in conjunction with an Eastern Management Unit hunting regulations experiment.
 - The framework extended to January 25 in Texas.
 - ¹ 50-70 days depending on state and season timing.
 - ^k Arizona was allowed 12.
 - ¹ States had the option of a 60-day season and daily bag limit of 12.
 - ^m States had the option of a 70-day season and daily bag limit of 12.
- ⁿ Beginning in 2002, the limits included white-winged doves in all states in the Central Management Unit. Beginning in 2006, the limits included white-winged doves in all states in the Eastern Management Unit.
 - ° 30-60 days depending on state (30 in Idaho, Nevada, Oregon, Utah, Washington; 60 in Arizona and California).
- ^p In Idaho, Nevada, Oregon, and Utah daily limit is 15 mourning and white-winged doves in the aggregate. In Arizona and California daily limit is 15 mourning and white-winged doves in the aggregate, of which no more than 10 can be white-winged doves.

Mourning Dove Population Status, 2021

U.S. Fish and Wildlife Service Division of Migratory Bird Management Branch of Assessment and Decision Support 11510 American Holly Drive Laurel, MD 20708-4002

August 2021

Cover photograph: Adult mourning dove. Photo by John Brunjes.

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