

**UPDATE No. 1 to
Natural Resource Report
NPS/NRSS/NSNSD/NRR—2018/1694**

**Reporting Information for
Commercial Air Tour Operations over Units of
the National Park System**

2017 Annual Report

National Park Service
NRSS / Natural Sounds & Night Skies Division / Overflights Program
Fort Collins, Colorado

September 27, 2018

U.S. Department of the Interior
National Park Service
Natural Resource Stewardship and Science
Fort Collins, Colorado

In August 2018, the National Park Service, Natural Resource Stewardship and Science office in Fort Collins, Colorado, published *Reporting Information for Commercial Air Tour Operations over Units of the National Park System: 2017 Annual Report* (Natural Resource Report NPS/NRSS/NSNSD/NRR—2018/1694).

That 2017 annual report provides a summary of the data received from commercial air tour operators regarding their activity over units of the national park system. As mentioned in the annual report, data are subject to change pending receipt of additional reports. This update is being released in order to provide additional reporting information that was received after publication of the initial 2017 annual report.

Both the initial report as well as this update are available in digital format from the [Natural Resource Publications Management website](#) and the [Natural Sounds and Night Skies Division website](#).

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1. Introduction

In August 2018, the National Park Service, Natural Resource Stewardship and Science office in Fort Collins, Colorado, published *Reporting Information for Commercial Air Tour Operations over Units of the National Park System: 2017 Annual Report* (Natural Resource Report NPS/NRSS/NSNSD/NRR—2018/1694).

The 2017 annual report provides a summary of the data received from commercial air tour operators regarding their activity over units of the national park system. As mentioned in the annual report, data are subject to change pending receipt of additional reports. This update is being released in order to provide additional information that was received after publication of the initial 2017 annual report. The additional information includes:

1. The number of third quarter tours by one operator flying over Great Smoky Mountains National Park.
2. Confirmation by one operator that no tours were flown in 2017 by that operator over Hawai'i Volcanoes National Park.

As a result of this new information:

1. Third quarter tours at Great Smoky Mountains National Park are now 292 and the total annual tours at that park unit are now 838.
2. Third quarter tours system-wide are now 19,467, and total annual tours system-wide are now 58,692 (up from 58,400).
3. Of the 194 reports that NPS anticipates for 2017, operators have now submitted 177 reports, which is 92% of the anticipated number (up from 90%).

The tables and figures in this update reflect the new information and are presented in the same order found in the initial annual report. Please refer to the initial report for narrative and context associated with the table and figures. If reports are received after release of this update, the new information will again be made publicly available.

2. Updated Tables and Figures

Table E1. Reported Commercial Air Tours in 2017 (Highest to Lowest Reported Tours)

Unit of the National Park System	Number of Air Tours ^A	Interim Operating Authority
Hawai'i Volcanoes National Park (HAVO)	16,520 ^B	26,664
National Parks of New York Harbor Management Unit (NPNH)	11,006	35,532
Lake Mead National Recreation Area (LAKE)	8,735	36,819
Haleakalā National Park (HALE)	4,839	25,827
Glen Canyon National Recreation Area (GLCA)	4,243	8,159
Mount Rushmore National Memorial (MORU)	3,749	5,608
Golden Gate National Recreation Area (GOGA)	2,588	5,090
Rainbow Bridge National Monument (RABR)	1,316	10,160
Badlands National Park (BADL)	1,194	4,117
Muir Woods National Monument (MUWO) ^C	1,173 ^C	5,090
Great Smoky Mountains National Park (GRSM)	838	1,920
Bryce Canyon National Park (BRCA)	480	3,131
Canyonlands National Park (CANY)	420	665
Arches National Park (ARCH)	395	566
Biscayne National Park (BISC)	138	200
Point Reyes National Seashore (PORE)	124	5,090
Glacier National Park (GLAC)	109 ^B	1,653
Bandelier National Monument (BAND)	101	126

A. Data are subject to change pending receipt of additional reports.

B. At least one missing quarterly or annual report for this park. A zero (0) means some (not all) reports were submitted and there were no reported tours on submitted reports. At Yellowstone, IOA associated with missing reports is sufficient for the park to potentially exceed 50 tours. At Grand Teton, associated IOA is not sufficient for the park to exceed 50 tours.

C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

D. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA are working with the operator to resolve ambiguity in reporting.

Table E1 (continued). Reported Commercial Air Tours in 2017 (Highest to Lowest Reported Tours)

Unit of the National Park System	Number of Air Tours ^A	Interim Operating Authority
Natural Bridges National Monument (NABR)	84	145
Big Cypress National Preserve (BICY)	81	972
Everglades National Park (EVER)	74	674
Olympic National Park (OLYM)	68	76
Chaco Culture National Historical Park (CHCU)	49	147
Big Bend National Park (BIBE)	48	55
Aztec Ruins National Monument (AZRU)	41	83
Canyon de Chelly National Monument (CACH)	38	175
Mesa Verde National Park (MEVE)	38	63
Acadia National Park (ACAD)	33	60
Hovenweep National Monument (HOVE)	24	92
Navajo National Monument (NAVA)	23	267
Petroglyph National Monument (PETR)	20	45
El Malpais National Monument (ELMA)	19	43
Zion National Park (ZION)	16	684
El Morro National Monument (ELMO)	9	43
Pecos National Historical Park (PECO)	8	32
Fort Union National Monument (FOUN)	8	32
Capulin Volcano National Monument (CAVO)	6	13
Petrified Forest National Park (PEFO)	6	60

- A. Data are subject to change pending receipt of additional reports.
- B. At least one missing quarterly or annual report for this park. A zero (0) means some (not all) reports were submitted and there were no reported tours on submitted reports. At Yellowstone, IOA associated with missing reports is sufficient for the park to potentially exceed 50 tours. At Grand Teton, associated IOA is not sufficient for the park to exceed 50 tours.
- C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.
- D. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA are working with the operator to resolve ambiguity in reporting.

Table E1 (continued). Reported Commercial Air Tours in 2017 (Highest to Lowest Reported Tours)

Unit of the National Park System	Number of Air Tours ^A	Interim Operating Authority
Hubbell Trading Post National Historic Site (HUTR)	6	27
Black Canyon Of The Gunnison National Park (BLCA)	5	7
Yosemite National Park (YOSE)	4	115
Sunset Crater Volcano National Monument (SUCR)	4	94
Colorado National Monument (COLM)	4	57
Yellowstone National Park (YELL)	3 ^B	103
Wupatki National Monument (WUPA)	3	60
Capitol Reef National Park (CARE)	2	284
Carlsbad Caverns National Park (CAVE)	0	18
Casa Grande Ruins National Monument (CAGR)	0	6
Cedar Breaks National Monument (CEBR)	0	66
Coronado National Memorial (CORO)	0	5
Death Valley National Park (DEVA)	0	37
Devils Tower National Monument (DETO)	0	22
Dinosaur National Monument (DINO)	0	9
Dry Tortugas National Park (DRTO)	0	100
Fort Bowie National Historic Site (FOBO)	0	5
Fort Davis National Historic Site (FODA)	0	5
Gila Cliff Dwellings National Monument (GICL)	0	26
Golden Spike National Historic Site (GOSP)	0	11

A. Data are subject to change pending receipt of additional reports.

B. At least one missing quarterly or annual report for this park. A zero (0) means some (not all) reports were submitted and there were no reported tours on submitted reports. At Yellowstone, IOA associated with missing reports is sufficient for the park to potentially exceed 50 tours. At Grand Teton, associated IOA is not sufficient for the park to exceed 50 tours.

C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

D. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA are working with the operator to resolve ambiguity in reporting.

Table E1 (continued). Reported Commercial Air Tours in 2017 (Highest to Lowest Reported Tours)

Unit of the National Park System	Number of Air Tours ^A	Interim Operating Authority
Grand Teton National Park (GRTE)	0 ^B	29
Great Sand Dunes National Park and Preserve (GRSA)	0	16
Guadalupe Mountains National Park (GUMO)	0	18
Hohokam Pima National Monument (PIMA)	0	5
Mojave National Preserve (MOJA)	0	15
Montezuma Castle National Monument (MOCA)	0	180
Mount Rainier National Park (MORA)	0	34
North Cascades National Park (NOCA)	0	2
Organ Pipe Cactus National Monument (ORPI)	0	5
Pipe Spring National Monument (PISP)	0	26
Rio Grande Wild and Scenic River (RIGR)	0	5
Saguaro National Park (SAGU)	0	18
Salinas Pueblo Missions National Monument (SAPU)	0	17
Sequoia and Kings Canyon National Parks (SEKI)	0	10
Timpanogos Cave National Monument (TICA)	0	254
Tumacacori National Historical Park (TUMA)	0	5
Tuzigoot National Monument (TUZI)	0	57
Walnut Canyon National Monument (WACA)	0	48
Yucca House National Monument (YUHO)	0	63
San Francisco Maritime National Historical Park (SAFR)	— ^D	5,090
Total	58,692	187,132

A. Data are subject to change pending receipt of additional reports.

B. At least one missing quarterly or annual report for this park. A zero (0) means some (not all) reports were submitted and there were no reported tours on submitted reports. At Yellowstone, IOA associated with missing reports is sufficient for the park to potentially exceed 50 tours. At Grand Teton, associated IOA is not sufficient for the park to exceed 50 tours.

C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

D. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA are working with the operator to resolve ambiguity in reporting.

Table E2. Reported Commercial Air Tours at High-Activity Units of the National Park System, 2017

Unit of the National Park System	Number of Air Tours	Percent of All Air Tours	Number of Operators ^A
Hawai'i Volcanoes National Park (HAVO)	16,520 ^B	28.1%	6
National Parks of New York Harbor Management Unit (NPNH)	11,006	18.8%	2
Lake Mead National Recreation Area (LAKE)	8,735	14.9%	4
Haleakalā National Park (HALE)	4,839	8.2%	5
Glen Canyon National Recreation Area (GLCA)	4,243	7.2%	5
Mount Rushmore National Memorial (MORU)	3,749	6.4%	3
Golden Gate National Recreation Area (GOGA)	2,588	4.4%	2
Rainbow Bridge National Monument (RABR)	1,316	2.2%	4
Badlands National Park (BADL)	1,194	2.0%	2
Muir Woods National Monument (MUWO)	1,173 ^C	2.0%	1
All Others	3,329	5.7%	–
Total	58,692	100%	n/a

A. This is the number of operators who reported at least one air tour.

B. At least one missing report for this park.

C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

Table 1. Reported Commercial Air Tours in 2017 ^{A, B} (Highest to Lowest Reported Tours)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Hawai'i Volcanoes National Park (HAVO)	Pacific West	Hawaii	5,523	3,682	3,710	3,605 ^D	16,520 ^D	26,664	10
National Parks of New York Harbor Management Unit (NPNH)	Northeast	New York, New Jersey	1,657	2,943	3,251	3,155	11,006	35,532	3
Lake Mead National Recreation Area (LAKE)	Pacific West	Arizona, Nevada	2,095	2,553	2,497	1,590	8,735	36,819	7
Haleakalā National Park (HALE)	Pacific West	Hawaii	1,135	1,132	1,443	1,129	4,839	25,827	6
Glen Canyon National Recreation Area (GLCA)	Intermountain	Arizona, Utah	196	1,395	1,665	987	4,243	8,159	9
Mount Rushmore National Memorial (MORU)	Midwest	South Dakota	1	1,130	2,615	3	3,749	5,608	3
Golden Gate National Recreation Area (GOGA)	Pacific West	California	321	679	1,030	558	2,588	5,090	2
Rainbow Bridge National Monument (RABR)	Intermountain	Utah	43	483	574	216	1,316	10,160	6
Badlands National Park (BADL)	Midwest	South Dakota	0	182	1,012	0	1,194	4,117	2
Muir Woods National Monument (MUWO)	Pacific West	California	104	325	500	244	1,173 ^E	5,090	2
Great Smoky Mountains National Park (GRSM)	Southeast	Tennessee, North Carolina	115	215	292	216	838	1,920	2
Bryce Canyon National Park (BRCA)	Intermountain	Utah	12	191	205	72	480	3,131	9
Canyonlands National Park (CANY)	Intermountain	Utah	38	129	180	73	420	665	8
Arches National Park (ARCH)	Intermountain	Utah	35	132	169	59	395	566	8
Biscayne National Park (BISC)	Southeast	Florida	28	31	41	38	138	200	2
Point Reyes National Seashore (PORE)	Pacific West	California	18	35	42	29	124	5,090	2
Glacier National Park (GLAC)	Intermountain	Montana	2 ^D	40 ^D	61 ^D	6 ^D	109 ^D	1,653	5
Bandelier National Monument (BAND)	Intermountain	New Mexico	26	15	28	32	101	126	1
Natural Bridges National Monument (NABR)	Intermountain	Utah	8	20	40	16	84	145	5

A. Data are subject to change pending receipt of additional reports.

B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.

C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.

F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 1 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Highest to Lowest Reported Tours)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Big Cypress National Preserve (BICY)	Southeast	Florida	53	18	5	5	81	972	2
Everglades National Park (EVER)	Southeast	Florida	54	16	0	4	74	674	1
Olympic National Park (OLYM)	Pacific West	Washington	7	16	26	19	68	76	1
Chaco Culture National Historical Park (CHCU)	Intermountain	New Mexico	10	2	18	19	49	147	1
Big Bend National Park (BIBE)	Intermountain	Texas	–	–	–	–	48	55	2
Aztec Ruins National Monument (AZRU)	Intermountain	New Mexico	9	2	15	15	41	83	1
Canyon de Chelly National Monument (CACH)	Intermountain	Arizona	8	1	13	16	38	175	4
Mesa Verde National Park (MEVE)	Intermountain	Colorado	8	1	15	14	38	63	1
Acadia National Park (ACAD)	Northeast	Maine	8	7	12	6	33	60	1
Hovenweep National Monument (HOVE)	Intermountain	Utah	–	–	–	–	24	92	3
Navajo National Monument (NAVA)	Intermountain	Arizona	–	–	–	–	23	267	4
Petroglyph National Monument (PETR)	Intermountain	New Mexico	–	–	–	–	20	45	1
El Malpais National Monument (ELMA)	Intermountain	New Mexico	–	–	–	–	19	43	1
Zion National Park (ZION)	Intermountain	Utah	3	7	6	0	16	684	8
El Morro National Monument (ELMO)	Intermountain	New Mexico	–	–	–	–	9	43	1
Pecos National Historical Park (PECO)	Intermountain	New Mexico	–	–	–	–	8	32	1
Fort Union National Monument (FOUN)	Intermountain	New Mexico	–	–	–	–	8	32	1
Capulin Volcano National Monument (CAVO)	Intermountain	New Mexico	–	–	–	–	6	13	1
Petrified Forest National Park (PEFO)	Intermountain	Arizona	–	–	–	–	6	60	3
Hubbell Trading Post National Historic Site (HUTR)	Intermountain	Arizona	–	–	–	–	6	27	1
Black Canyon Of The Gunnison National Park (BLCA)	Intermountain	Colorado	–	–	–	–	5	7	1

- A. Data are subject to change pending receipt of additional reports.
- B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.
- C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.
- D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.
- E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.
- F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 1 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Highest to Lowest Reported Tours)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Yosemite National Park (YOSE)	Pacific West	California	1	3	0	0	4	115	2
Sunset Crater Volcano National Monument (SUCR)	Intermountain	Arizona	–	–	–	–	4	94	4
Colorado National Monument (COLM)	Intermountain	Colorado	–	–	–	–	4	57	1
Yellowstone National Park (YELL)	Intermountain	Idaho, Montana, Wyoming	2 ^D	0 ^D	1 ^D	0 ^D	3 ^D	103	4
Wupatki National Monument (WUPA)	Intermountain	Arizona	–	–	–	–	3	60	3
Capitol Reef National Park (CARE)	Intermountain	Utah	0	1	1	0	2	284	7
Carlsbad Caverns National Park (CAVE)	Intermountain	New Mexico	–	–	–	–	0	18	1
Casa Grande Ruins National Monument (CAGR)	Intermountain	Arizona	–	–	–	–	0	6	1
Cedar Breaks National Monument (CEBR)	Intermountain	Utah	–	–	–	–	0	66	4
Coronado National Memorial (CORO)	Intermountain	Arizona	–	–	–	–	0	5	1
Death Valley National Park (DEVA)	Pacific West	California	0	0	0	0	0	37	4
Devils Tower National Monument (DETO)	Intermountain	Wyoming	–	–	–	–	0	22	1
Dinosaur National Monument (DINO)	Intermountain	Colorado, Utah	–	–	–	–	0	9	1
Dry Tortugas National Park (DRTO)	Southeast	Florida	–	–	–	–	0	100	1
Fort Bowie National Historic Site (FOBO)	Intermountain	Arizona	–	–	–	–	0	5	1
Fort Davis National Historic Site (FODA)	Intermountain	Texas	–	–	–	–	0	5	1
Gila Cliff Dwellings National Monument (GICL)	Intermountain	New Mexico	–	–	–	–	0	26	1
Golden Spike National Historic Site (GOSP)	Intermountain	Utah	–	–	–	–	0	11	1
Grand Teton National Park (GRTE)	Intermountain	Wyoming	–	–	–	–	0 ^D	29	3

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C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

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Table 1 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Highest to Lowest Reported Tours)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Great Sand Dunes National Park and Preserve (GRSA)	Intermountain	Colorado	–	–	–	–	0	16	1
Guadalupe Mountains National Park (GUMO)	Intermountain	Texas	–	–	–	–	0	18	1
Hohokam Pima National Monument (PIMA)	Intermountain	Arizona	–	–	–	–	0	5	1
Mojave National Preserve (MOJA)	Pacific West	California	–	–	–	–	0	15	1
Montezuma Castle National Monument (MOCA)	Intermountain	Arizona	–	–	–	–	0	180	3
Mount Rainier National Park (MORA)	Pacific West	Washington	0	0	0	0	0	34	2
North Cascades National Park (NOCA)	Pacific West	Washington	–	–	–	–	0	2	1
Organ Pipe Cactus National Monument (ORPI)	Intermountain	Arizona	–	–	–	–	0	5	1
Pipe Spring National Monument (PISP)	Intermountain	Arizona	–	–	–	–	0	26	2
Rio Grande Wild and Scenic River (RIGR)	Intermountain	Texas	–	–	–	–	0	5	1
Saguaro National Park (SAGU)	Intermountain	Arizona	–	–	–	–	0	18	2
Salinas Pueblo Missions National Monument (SAPU)	Intermountain	New Mexico	–	–	–	–	0	17	1
Sequoia and Kings Canyon National Parks (SEKI)	Pacific West	California	–	–	–	–	0	10	1
Timpanogos Cave National Monument (TICA)	Intermountain	Utah	–	–	–	–	0	254	1
Tumacacori National Historical Park (TUMA)	Intermountain	Arizona	–	–	–	–	0	5	1
Tuzigoot National Monument (TUZI)	Intermountain	Arizona	–	–	–	–	0	57	2
Walnut Canyon National Monument (WACA)	Intermountain	Arizona	–	–	–	–	0	48	2
Yucca House National Monument (YUHO)	Intermountain	Colorado	–	–	–	–	0	63	1
San Francisco Maritime National Historical Park (SAFR)	Pacific West	California	F	F	F	F	F	5,090	2
Total ^C	n/a	n/a	11,520	15,386	19,467	12,126	58,692 ^C	187,132	n/a

A. Data are subject to change pending receipt of additional reports.

B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.

C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.

F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 2. Reported Commercial Air Tours in 2017 ^{A, B} (Alphabetical by Park Unit)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Acadia National Park (ACAD)	Northeast	Maine	8	7	12	6	33	60	1
Arches National Park (ARCH)	Intermountain	Utah	35	132	169	59	395	566	8
Aztec Ruins National Monument (AZRU)	Intermountain	New Mexico	9	2	15	15	41	83	1
Badlands National Park (BADL)	Midwest	South Dakota	0	182	1,012	0	1,194	4,117	2
Bandelier National Monument (BAND)	Intermountain	New Mexico	26	15	28	32	101	126	1
Big Bend National Park (BIBE)	Intermountain	Texas	–	–	–	–	48	55	2
Big Cypress National Preserve (BICY)	Southeast	Florida	53	18	5	5	81	972	2
Biscayne National Park (BISC)	Southeast	Florida	28	31	41	38	138	200	2
Black Canyon Of The Gunnison National Park (BLCA)	Intermountain	Colorado	–	–	–	–	5	7	1
Bryce Canyon National Park (BRCA)	Intermountain	Utah	12	191	205	72	480	3,131	9
Canyon de Chelly National Monument (CACH)	Intermountain	Arizona	8	1	13	16	38	175	4
Canyonlands National Park (CANY)	Intermountain	Utah	38	129	180	73	420	665	8
Capitol Reef National Park (CARE)	Intermountain	Utah	0	1	1	0	2	284	7
Capulin Volcano National Monument (CAVO)	Intermountain	New Mexico	–	–	–	–	6	13	1
Carlsbad Caverns National Park (CAVE)	Intermountain	New Mexico	–	–	–	–	0	18	1
Casa Grande Ruins National Monument (CAGR)	Intermountain	Arizona	–	–	–	–	0	6	1
Cedar Breaks National Monument (CEBR)	Intermountain	Utah	–	–	–	–	0	66	4
Chaco Culture National Historical Park (CHCU)	Intermountain	New Mexico	10	2	18	19	49	147	1

- A. Data are subject to change pending receipt of additional reports.
- B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.
- C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.
- D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.
- E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.
- F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 2 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Alphabetical by Park Unit)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Colorado National Monument (COLM)	Intermountain	Colorado	–	–	–	–	4	57	1
Coronado National Memorial (CORO)	Intermountain	Arizona	–	–	–	–	0	5	1
Death Valley National Park (DEVA)	Pacific West	California	0	0	0	0	0	37	4
Devils Tower National Monument (DETO)	Intermountain	Wyoming	–	–	–	–	0	22	1
Dinosaur National Monument (DINO)	Intermountain	Colorado, Utah	–	–	–	–	0	9	1
Dry Tortugas National Park (DRTO)	Southeast	Florida	–	–	–	–	0	100	1
El Malpais National Monument (ELMA)	Intermountain	New Mexico	–	–	–	–	19	43	1
El Morro National Monument (ELMO)	Intermountain	New Mexico	–	–	–	–	9	43	1
Everglades National Park (EVER)	Southeast	Florida	54	16	0	4	74	674	1
Fort Bowie National Historic Site (FOBO)	Intermountain	Arizona	–	–	–	–	0	5	1
Fort Davis National Historic Site (FODA)	Intermountain	Texas	–	–	–	–	0	5	1
Fort Union National Monument (FOUN)	Intermountain	New Mexico	–	–	–	–	8	32	1
Gila Cliff Dwellings National Monument (GICL)	Intermountain	New Mexico	–	–	–	–	0	26	1
Glacier National Park (GLAC)	Intermountain	Montana	2 ^D	40 ^D	61 ^D	6 ^D	109 ^D	1,653	5
Glen Canyon National Recreation Area (GLCA)	Intermountain	Arizona, Utah	196	1,395	1,665	987	4,243	8,159	9
Golden Gate National Recreation Area (GOGA)	Pacific West	California	321	679	1,030	558	2,588	5,090	2
Golden Spike National Historic Site (GOSP)	Intermountain	Utah	–	–	–	–	0	11	1

A. Data are subject to change pending receipt of additional reports.

B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.

C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.

F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 2 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Alphabetical by Park Unit)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Grand Teton National Park (GRTE)	Intermountain	Wyoming	–	–	–	–	0 ^D	29	3
Great Sand Dunes National Park and Preserve (GRSA)	Intermountain	Colorado	–	–	–	–	0	16	1
Great Smoky Mountains National Park (GRSM)	Southeast	Tennessee, North Carolina	115	215	292	216	838	1,920	2
Guadalupe Mountains National Park (GUMO)	Intermountain	Texas	–	–	–	–	0	18	1
Haleakalā National Park (HALE)	Pacific West	Hawaii	1,135	1,132	1,443	1,129	4,839	25,827	6
Hawai'i Volcanoes National Park (HAVO)	Pacific West	Hawaii	5,523	3,682	3,710	3,605 ^D	16,520 ^D	26,664	10
Hohokam Pima National Monument (PIMA)	Intermountain	Arizona	–	–	–	–	0	5	1
Hovenweep National Monument (HOVE)	Intermountain	Utah	–	–	–	–	24	92	3
Hubbell Trading Post National Historic Site (HUTR)	Intermountain	Arizona	–	–	–	–	6	27	1
Lake Mead National Recreation Area (LAKE)	Pacific West	Arizona, Nevada	2,095	2,553	2,497	1,590	8,735	36,819	7
Mesa Verde National Park (MEVE)	Intermountain	Colorado	8	1	15	14	38	63	1
Mojave National Preserve (MOJA)	Pacific West	California	–	–	–	–	0	15	1
Montezuma Castle National Monument (MOCA)	Intermountain	Arizona	–	–	–	–	0	180	3
Mount Rainier National Park (MORA)	Pacific West	Washington	0	0	0	0	0	34	2
Mount Rushmore National Memorial (MORU)	Midwest	South Dakota	1	1,130	2,615	3	3,749	5,608	3
Muir Woods National Monument (MUWO)	Pacific West	California	104	325	500	244	1,173 ^E	5,090	2

A. Data are subject to change pending receipt of additional reports.

B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.

C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.

F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 2 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Alphabetical by Park Unit)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
National Parks of New York Harbor Management Unit (NPNH)	Northeast	New York, New Jersey	1,657	2,943	3,251	3,155	11,006	35,532	3
Natural Bridges National Monument (NABR)	Intermountain	Utah	8	20	40	16	84	145	5
Navajo National Monument (NAVA)	Intermountain	Arizona	–	–	–	–	23	267	4
North Cascades National Park (NOCA)	Pacific West	Washington	–	–	–	–	0	2	1
Olympic National Park (OLYM)	Pacific West	Washington	7	16	26	19	68	76	1
Organ Pipe Cactus National Monument (ORPI)	Intermountain	Arizona	–	–	–	–	0	5	1
Pecos National Historical Park (PECO)	Intermountain	New Mexico	–	–	–	–	8	32	1
Petrified Forest National Park (PEFO)	Intermountain	Arizona	–	–	–	–	6	60	3
Petroglyph National Monument (PETR)	Intermountain	New Mexico	–	–	–	–	20	45	1
Pipe Spring National Monument (PISP)	Intermountain	Arizona	–	–	–	–	0	26	2
Point Reyes National Seashore (PORE)	Pacific West	California	18	35	42	29	124	5,090	2
Rainbow Bridge National Monument (RABR)	Intermountain	Utah	43	483	574	216	1,316	10,160	6
Rio Grande Wild and Scenic River (RIGR)	Intermountain	Texas	–	–	–	–	0	5	1
Saguaro National Park (SAGU)	Intermountain	Arizona	–	–	–	–	0	18	2
Salinas Pueblo Missions National Monument (SAPU)	Intermountain	New Mexico	–	–	–	–	0	17	1
San Francisco Maritime National Historical Park (SAFR)	Pacific West	California	F	F	F	F	F	5,090	2
Sequoia and Kings Canyon National Parks (SEKI)	Pacific West	California	–	–	–	–	0	10	1

- A. Data are subject to change pending receipt of additional reports.
- B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.
- C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.
- D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.
- E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.
- F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 2 (continued). Reported Commercial Air Tours in 2017 ^{A, B} (Alphabetical by Park Unit)

Unit of the National Park System	Region	State	January-March	April-June	July-September	October-December	Total Air Tours	Interim Operating Authority	Number of Operators with IOA
Sunset Crater Volcano National Monument (SUCR)	Intermountain	Arizona	–	–	–	–	4	94	4
Timpanogos Cave National Monument (TICA)	Intermountain	Utah	–	–	–	–	0	254	1
Tumacacori National Historical Park (TUMA)	Intermountain	Arizona	–	–	–	–	0	5	1
Tuzigoot National Monument (TUZI)	Intermountain	Arizona	–	–	–	–	0	57	2
Walnut Canyon National Monument (WACA)	Intermountain	Arizona	–	–	–	–	0	48	2
Wupatki National Monument (WUPA)	Intermountain	Arizona	–	–	–	–	3	60	3
Yellowstone National Park (YELL)	Intermountain	Idaho, Montana, Wyoming	2 ^D	0 ^D	1 ^D	0 ^D	3 ^D	103	4
Yosemite National Park (YOSE)	Pacific West	California	1	3	0	0	4	115	2
Yucca House National Monument (YUHO)	Intermountain	Colorado					0	63	1
Zion National Park (ZION)	Intermountain	Utah	3	7	6	0	16	684	8
Total ^C	n/a	n/a	11,520	15,386	19,467	12,126	58,692 ^C	187,132	n/a

A. Data are subject to change pending receipt of additional reports.

B. Cells with a dash indicate the park is exempt from the requirement for operators to submit a quarterly report; therefore, only an annual report is required.

C. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required.

D. At least one missing report for this park. A zero (0) with this footnote means some (not all) reports were submitted and there were no reported tours on those reports.

E. Air tours reported for Muir Woods not likely occurring over the park or within the half-mile boundary. NPS and FAA working with operator to resolve ambiguity in reporting.

F. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA working with operator to resolve ambiguity in reporting.

Table 3. Reported Commercial Air Tours at High-Activity Units of the National Park System, 2017

Unit of the National Park System	January-March	April-June	July-September	October-December	Total Air Tours	Percent of All Air Tours	Number of Operators ^A
Hawai'i Volcanoes National Park (HAVO)	5,523	3,682	3,710	3,605 ^B	16,520 ^B	28.1%	6
National Parks of New York Harbor Management Unit (NPNH)	1,657	2,943	3,251	3,155	11,006	18.8%	2
Lake Mead National Recreation Area (LAKE)	2,095	2,553	2,497	1,590	8,735	14.9%	4
Haleakalā National Park (HALE)	1,135	1,132	1,443	1,129	4,839	8.2%	5
Glen Canyon National Recreation Area (GLCA)	196	1,395	1,665	987	4,243	7.2%	5
Mount Rushmore National Memorial (MORU)	1	1,130	2,615	3	3,749	6.4%	3
Golden Gate National Recreation Area (GOGA)	321	679	1,030	558	2,588	4.4%	2
Rainbow Bridge National Monument (RABR)	43	483	574	216	1,316	2.2%	4
Badlands National Park (BADL)	0	182	1,012	0	1,194	2.0%	2
Muir Woods National Monument (MUWO)	104	325	500	244	1,173 ^C	2.0%	1
All Others	445	882	1,170	639	3,329	5.7%	–
Total ^D	11,520	15,386	19,467	12,126	58,692 ^D	100%	n/a

A. This is the number of operators who reported at least one air tour.

B. At least one missing report for this park.

C. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

D. Grand total exceeds sum of quarterly totals due to exempt parks where only the annual total is required

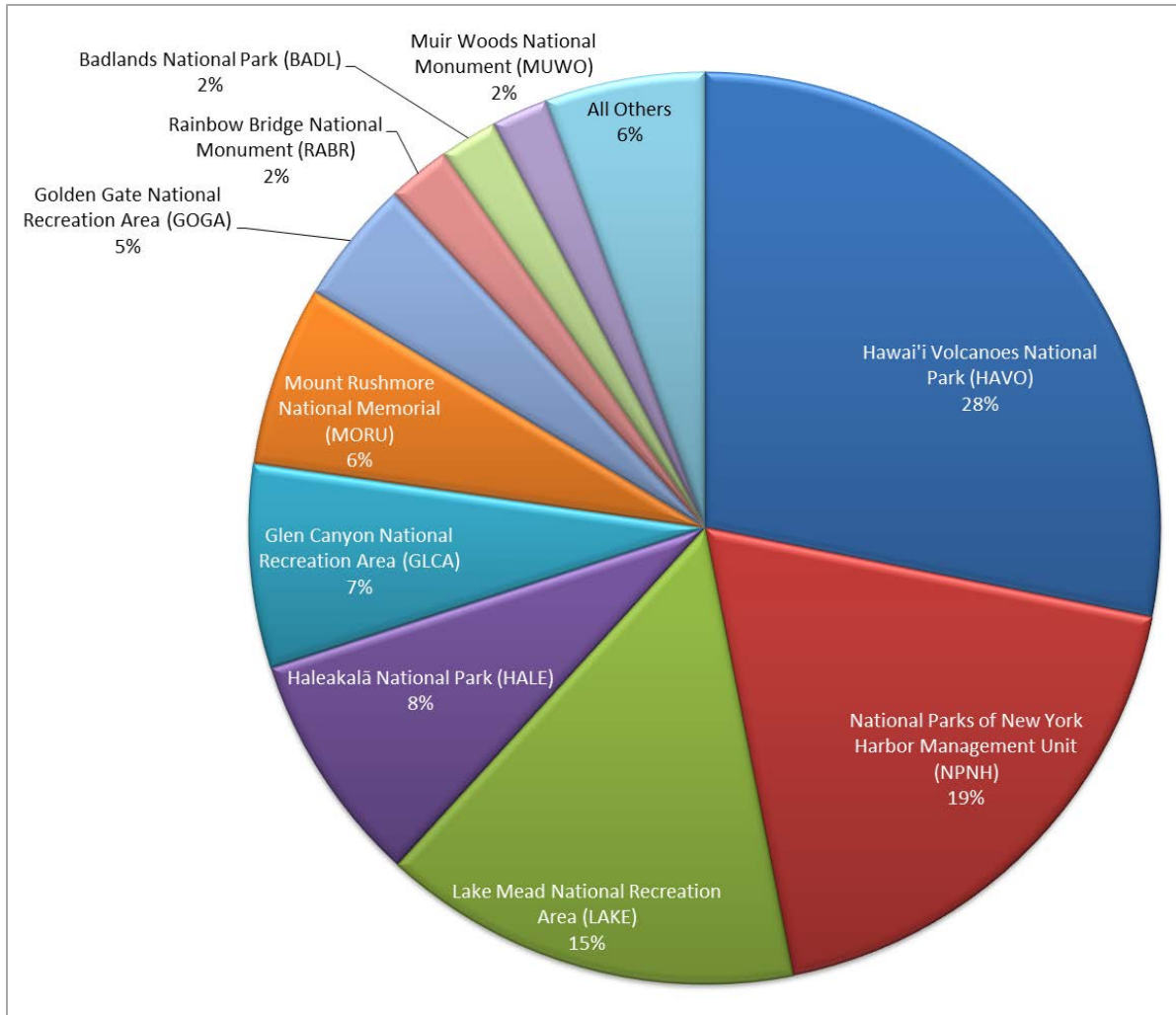


Figure 1. Reported Commercial Air Tours at High-Activity Units of the National Park System, 2017

Table 4. Reported Commercial Air Tours at High-Activity Units of the National Park System, 2013-2017

National Park System Unit	2013	2014	2015	2016	2017
Hawaii Volcanoes National Park (HAVO)	15,410	14,427	14,645	15,489	16,520 ^A
National Parks of New York Harbor Management Unit (NPNH)	34,682	39,797	26,812	18,638	11,006
Lake Mead National Recreation Area (LAKE)	13,218	12,160	10,548	7,530	8,735
Haleakala National Park (HALE)	4,631	4,932	4,543	4,589	4,839
Glen Canyon National Recreation Area (GLCA)	4,437	4,861	4,167	3,820	4,243
Mount Rushmore National Memorial (MORU)	9	3,648	4,363	4,011	3,749
Golden Gate National Recreation Area (GOGA)	1,920	2,003	2,272	2,250	2,588
Rainbow Bridge National Monument (RABR)	2,135	2,399	2,415	2,065	1,316
Badlands National Park (BADL)	962	1,317	1,205	1,330	1,194
Muir Woods National Monument (MUWO)	514	595	754	1,001	1,173 ^B

A. At least one missing report for this park.

B. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.

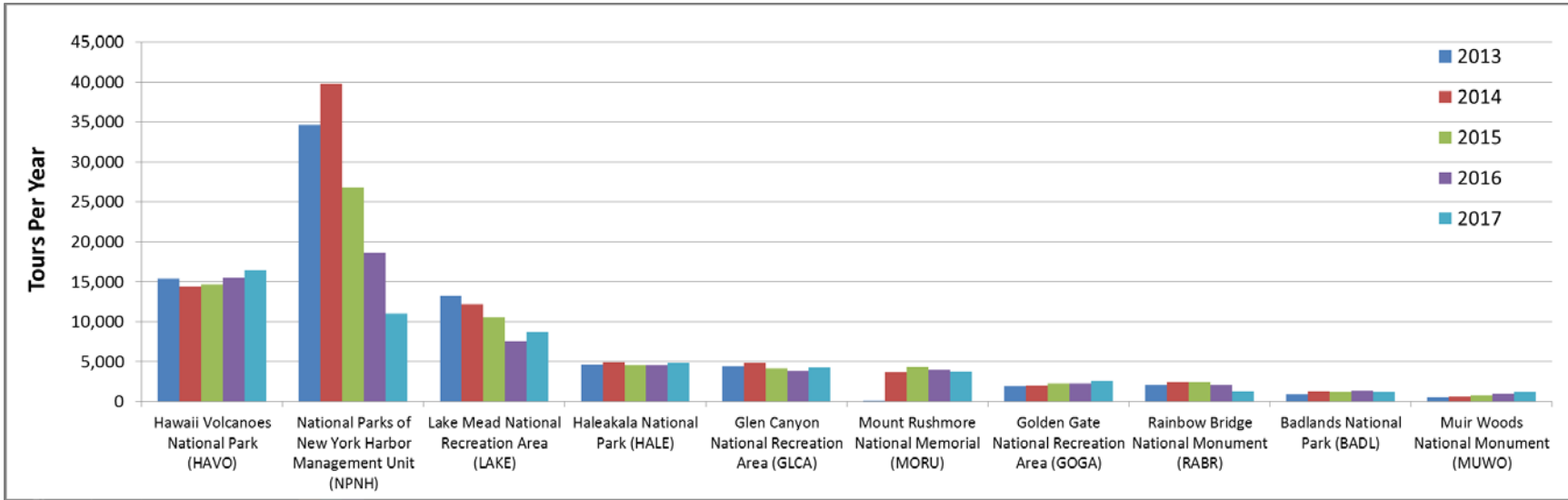


Figure 2. Reported Commercial Air Tours at High-Activity Units of the National Park System, 2013-2017

Table 5. Reported Commercial Air Tours by NPS Region, 2017

Region	Number of Air Tours	Percent of All Air Tours	Number of Park Units with At Least One Tour
Pacific West Region (PWR)	34,051	58%	8
Northeast Region (NER)	11,039	19%	2
Intermountain Region (IMR)	7,528	13%	30
Midwest Region (MWR)	4,943	8%	2
Southeast Region (SER)	1,131	2%	4
Total	58,692	100%	46

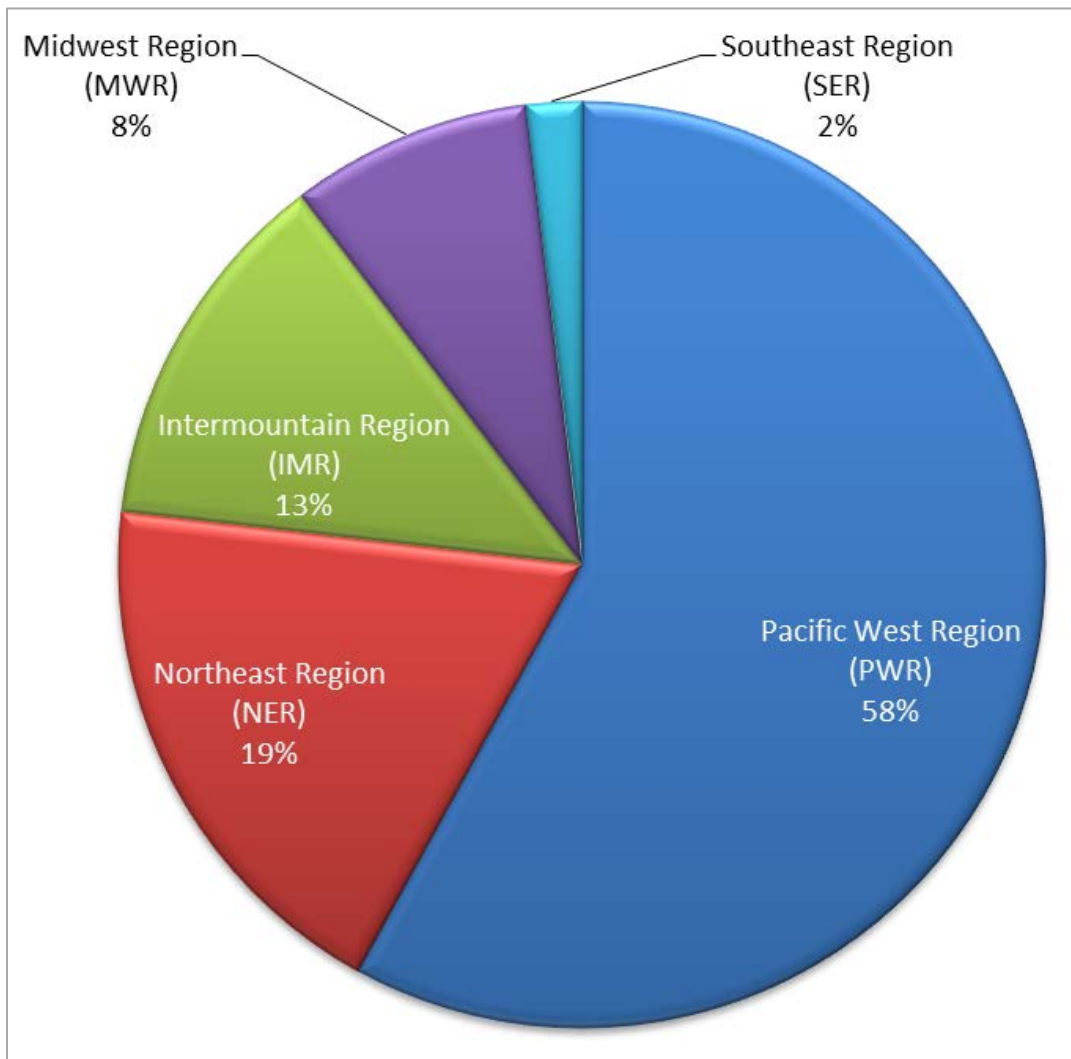


Figure 3. Reported Commercial Air Tours by NPS Region, 2017

Table 6. Reported Commercial Air Tours, 2013-2017

Year	January-March	April-June	July-September	October-December	Total ^A
2013	14,755	22,748	24,200	18,718	80,558
2014	13,548	25,402	30,176	20,450	89,752
2015	13,664	23,441	23,077	14,913	75,300
2016	12,815	15,676	21,715	13,913	64,235
2017	11,520	15,386	19,467	12,126	58,692

A. Annual totals exceed sum of quarterly totals due to exempt parks where only the annual total is required.

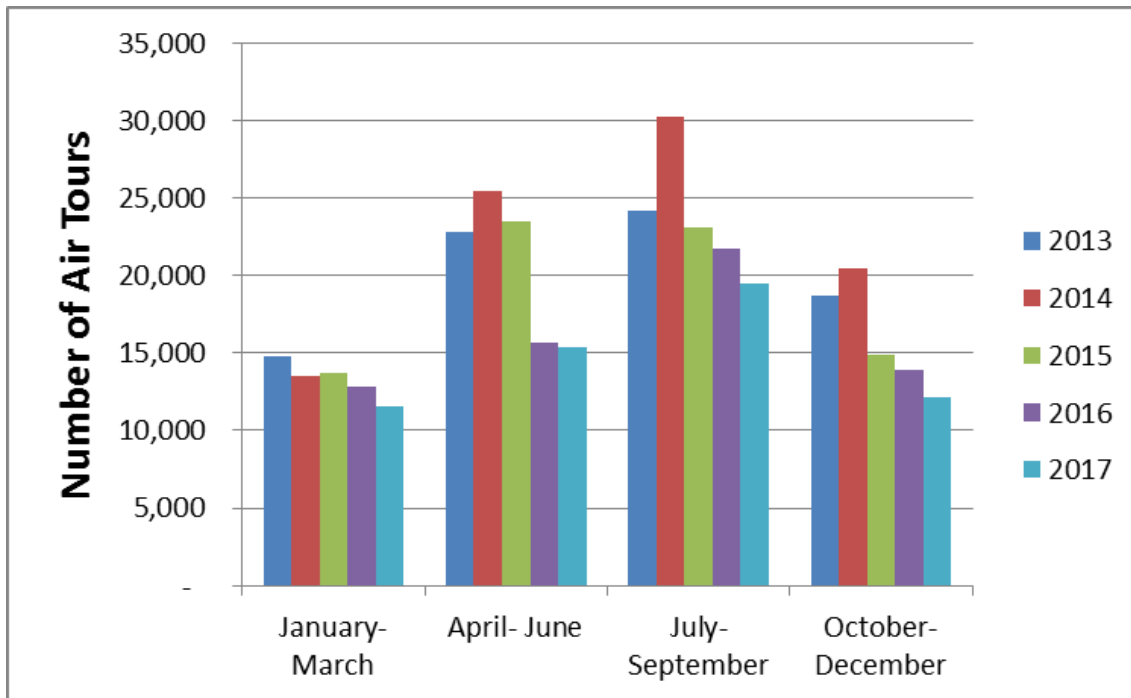


Figure 4. Reported Commercial Air Tours 2013-2017 by Quarter

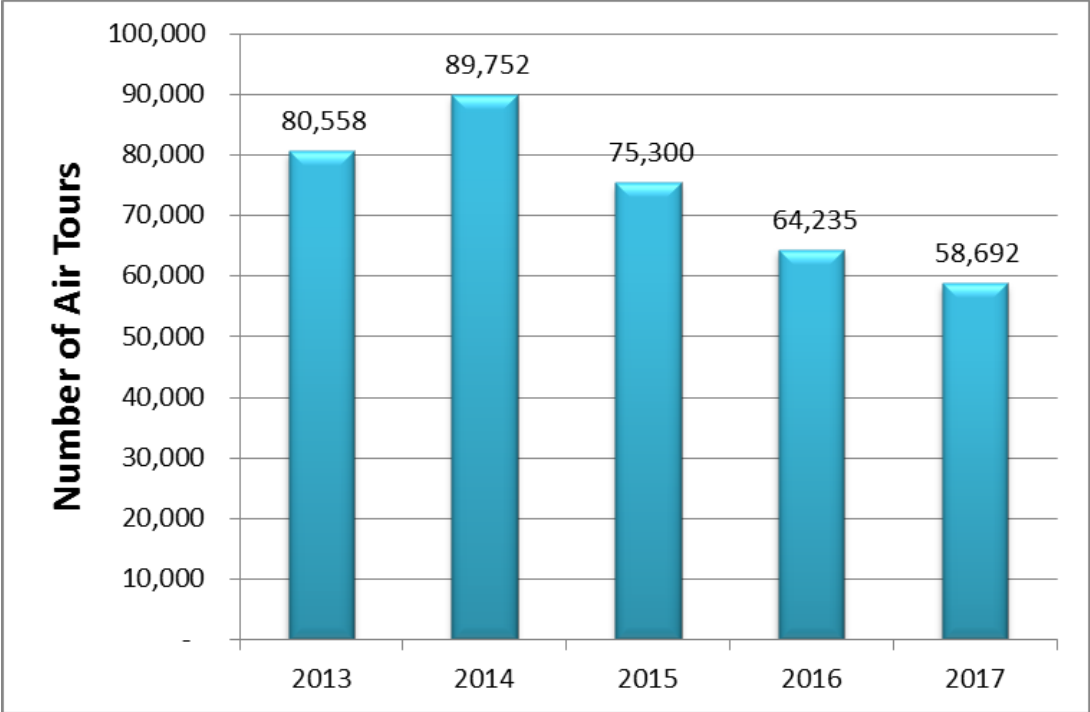


Figure 5. Reported Commercial Air Tours 2013-2017 by Year

Table 7. Park Units that Require an Air Tour Management Plan or Agreement

Unit of the National Park System	Region	State	Total Air Tours
Hawai'i Volcanoes National Park (HAVO)	Pacific West	Hawaii	16,520 ^A
National Parks of New York Harbor Management Unit (NPNH)	Northeast	New York, New Jersey	11,006
Lake Mead National Recreation Area (LAKE)	Pacific West	Arizona, Nevada	8,735
Haleakalā National Park (HALE)	Pacific West	Hawaii	4,839
Glen Canyon National Recreation Area (GLCA)	Intermountain	Arizona, Utah	4,243
Mount Rushmore National Memorial (MORU)	Midwest	South Dakota	3,749
Golden Gate National Recreation Area (GOGA)	Pacific West	California	2,588
Rainbow Bridge National Monument (RABR)	Intermountain	Utah	1,316
Badlands National Park (BADL)	Midwest	South Dakota	1,194
Muir Woods National Monument (MUWO)	Pacific West	California	1,173 ^B
Great Smoky Mountains National Park (GRSM)	Southeast	Tennessee, North Carolina	838
Bryce Canyon National Park (BRCA)	Intermountain	Utah	480
Canyonlands National Park (CANY)	Intermountain	Utah	420
Arches National Park (ARCH)	Intermountain	Utah	395
Biscayne National Park (BISC)	Southeast	Florida	138
Point Reyes National Seashore (PORE)	Pacific West	California	124
Glacier National Park (GLAC)	Intermountain	Montana	109 ^A
Bandelier National Monument (BAND)	Intermountain	New Mexico	101
Natural Bridges National Monument (NABR)	Intermountain	Utah	84
Big Cypress National Preserve (BICY)	Southeast	Florida	81
Everglades National Park (EVER)	Southeast	Florida	74
Olympic National Park (OLYM)	Pacific West	Washington	68
Canyon de Chelly National Monument (CACH)	Intermountain	Arizona	38 ^C
Death Valley National Park (DEVA)	Pacific West	California	0 ^C
Mount Rainier National Park (MORA)	Pacific West	Washington	0 ^C
San Francisco Maritime National Historical Park (SAFR)	Pacific West	California	— ^D

- A. At least one missing report for this park.
- B. Air tours reported for Muir Woods are not likely occurring over the park or within the half-mile boundary. NPS and FAA are working with the operator to resolve ambiguity in reporting.
- C. NPS withdrew exemption for this park unit, therefore, an air tour management plan or agreement is required.
- D. Air tours over San Francisco Maritime are likely occurring in conjunction with Golden Gate air tours. NPS and FAA are working with the operator to resolve ambiguity in reporting

Table 8. Park Units that Qualify for the Exemption Based on 2017 Data

Unit of the National Park System	Region	State	Total Air Tours
Chaco Culture National Historical Park (CHCU)	Intermountain	New Mexico	49
Big Bend National Park (BIBE)	Intermountain	Texas	48
Aztec Ruins National Monument (AZRU)	Intermountain	New Mexico	41
Mesa Verde National Park (MEVE)	Intermountain	Colorado	38
Acadia National Park (ACAD)	Northeast	Maine	33
Hovenweep National Monument (HOVE)	Intermountain	Utah	24
Navajo National Monument (NAVA)	Intermountain	Arizona	23
Petroglyph National Monument (PETR)	Intermountain	New Mexico	20
El Malpais National Monument (ELMA)	Intermountain	New Mexico	19
Zion National Park (ZION)	Intermountain	Utah	16
El Morro National Monument (ELMO)	Intermountain	New Mexico	9
Fort Union National Monument (FOUN)	Intermountain	New Mexico	8
Pecos National Historical Park (PECO)	Intermountain	New Mexico	8
Capulin Volcano National Monument (CAVO)	Intermountain	New Mexico	6
Hubbell Trading Post National Historic Site (HUTR)	Intermountain	Arizona	6
Petrified Forest National Park (PEFO)	Intermountain	Arizona	6
Black Canyon Of The Gunnison National Park (BLCA)	Intermountain	Colorado	5
Colorado National Monument (COLM)	Intermountain	Colorado	4
Sunset Crater Volcano National Monument (SUCR)	Intermountain	Arizona	4
Yosemite National Park (YOSE)	Pacific West	California	4
Wupatki National Monument (WUPA)	Intermountain	Arizona	3
Yellowstone National Park (YELL)	Intermountain	Idaho, Montana, Wyoming	3 ^A
Capitol Reef National Park (CARE)	Intermountain	Utah	2
Carlsbad Caverns National Park (CAVE)	Intermountain	New Mexico	0
Casa Grande Ruins National Monument (CAGR)	Intermountain	Arizona	0
Cedar Breaks National Monument (CEBR)	Intermountain	Utah	0
Coronado National Memorial (CORO)	Intermountain	Arizona	0
Devils Tower National Monument (DETO)	Intermountain	Wyoming	0
Dinosaur National Monument (DINO)	Intermountain	Colorado, Utah	0
Dry Tortugas National Park (DRTO)	Southeast	Florida	0
Fort Bowie National Historic Site (FOBO)	Intermountain	Arizona	0
Fort Davis National Historic Site (FODA)	Intermountain	Texas	0
Gila Cliff Dwellings National Monument (GICL)	Intermountain	New Mexico	0
Golden Spike National Historic Site (GOSP)	Intermountain	Utah	0

A. At least one missing report for this park; associated IOA is sufficient for the park to potentially exceed 50 tours.

B. At least one missing report for this park, associated IOA is not sufficient for park to exceed 50 tours.

Table 8 (continued). Park Units that Qualify for the Exemption Based on 2017 Data

Unit of the National Park System	Region	State	Total Air Tours
Grand Teton National Park (GRTE)	Intermountain	Wyoming	0 ^B
Great Sand Dunes National Park and Preserve (GRSA)	Intermountain	Colorado	0
Guadalupe Mountains National Park (GUMO)	Intermountain	Texas	0
Hohokam Pima National Monument (PIMA)	Intermountain	Arizona	0
Mojave National Preserve (MOJA)	Pacific West	California	0
Montezuma Castle National Monument (MOCA)	Intermountain	Arizona	0
North Cascades National Park (NOCA)	Pacific West	Washington	0
Organ Pipe Cactus National Monument (ORPI)	Intermountain	Arizona	0
Pipe Spring National Monument (PISP)	Intermountain	Arizona	0
Rio Grande Wild and Scenic River (RIGR)	Intermountain	Texas	0
Saguaro National Park (SAGU)	Intermountain	Arizona	0
Salinas Pueblo Missions National Monument (SAPU)	Intermountain	New Mexico	0
Sequoia and Kings Canyon National Parks (SEKI)	Pacific West	California	0
Timpanogos Cave National Monument (TICA)	Intermountain	Utah	0
Tumacacori National Historical Park (TUMA)	Intermountain	Arizona	0
Tuzigoot National Monument (TUZI)	Intermountain	Arizona	0
Walnut Canyon National Monument (WACA)	Intermountain	Arizona	0
Yucca House National Monument (YUHO)	Intermountain	Colorado	0

- A. At least one missing report for this park; associated IOA is sufficient for the park to potentially exceed 50 tours.
 - B. At least one missing report for this park, associated IOA is not sufficient for park to exceed 50 tours.
- Appendix A. Air Tour Reporting Template

The Department of the Interior protects and manages the nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special responsibilities to American Indians, Alaska Natives, and affiliated Island Communities.

National Park Service
U.S. Department of the Interior



[Natural Resource Stewardship and Science](#)

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