

Number groups after calls denote score, total QSOs, W/E multiplier, countries worked. Total multiplier is the addition of the W/E and countries. Multi-op scores follow single-op listings. An asterisk (*) denotes low power. State, province, and country certificate winners are listed in bold.

2020 CW RESULTS
SINGLE OPERATOR
NORTH AMERICA
UNITED STATES

CONNECTICUT			
K1ZZ	119,850	326	41 44
*W1ARY	55,205	350	43 18
*W1OK	48,849	328	43 14
KA1J	40,199	184	39 22
K1KI	31,752	211	33 16
K1BUB	25,440	208	38 10
*W1EIE	18,204	198	33 4
*K1C1D	10,272	126	40 3
*K1CSA	8,883	135	25 2
MAINE			
K1LZ	1,128,548	1414	55 79
K1DG	1,023,435	1497	56 77
KAIIS	235,818	578	48 31
*W1LQ	153,033	308	49 40
*N1CGP	32,120	304	39 5
*K7A	2,684	52	21 1
MASSACHUSETTS			
K5ZD	341,223	868	52 55
*K1EP	254,800	881	54 46
*N1PBA	153,033	308	49 40
N1QY	70,448	387	45 23
*K1VUT	66,468	479	45 13
*N1DC	51,015	369	46 11
*K1SX	43,407	227	43 20
*N2AN	26,977	192	43 10
*K01N	26,531	265	41 2
*N1NN	5,178	45	25 1
*K1G11	4,728	45	19 0
*N1AW	1,411	34	17 0
*W01N	550	26	10 0
*W1EAL	540	21	12 0
*N1YL	138	10	6 0
NEW HAMPSHIRE			
K1TR	222,775	763	53 42
*N1IX	49,350	389	40 10
*K1OO	39,540	241	45 15
*W1AT	21,266	137	32 17
AA1QD	14,491	132	36 7
*N1IMW	5,887	90	26 3
*K1G1V	3,560	77	20 0
K1KXN	360	12	12 0
RHODE ISLAND			
W1XX	308,053	813	54 53
*K1MD	79,268	339	48 28
*AJ1DM	2,300	47	18 2
VERMONT			
N1UR	411,840	856	54 63
K1VMT	47,276	366	44 9
*K1ARR	1,683	42	17 0
NEW JERSEY			
*N2GM	81,508	424	47 24
*N2HMM	51,729	329	32 15
*W2ALY	24,544	178	40 12
*K2Q2WUF	24,000	187	38 10
*K2DJC	12,771	155	27 6
*W3PR	7,359	91	31 2
*W2IOC	1	0	1 0
NEW YORK			
N5DX	1,065,912	1611	57 81
W2XL	244,812	865	52 40
W59M	218,296	551	54 54
K2NV	213,885	688	53 44
N2MF	163,210	522	50 48
*N2YB	147,846	725	54 28
N2H2N	149,228	411	49 32
*A1ZS	53,170	312	49 16
*N4XL	50,700	346	49 11
WU2M	43,615	326	43 12
*K2OO	40,370	292	43 12
*AG2AA	31,115	269	43 6
W1PIC	23,220	209	40 5
*N2BEG	19,839	182	44 3
*N2RI	18,720	196	34 6
W2B2WPM	10,527	141	32 1
*N2YH	8,288	127	26 2
*K2NPN	6,496	94	28 1
*AC2OC	5,572	86	28 2
*W2YK	5,423	76	27 0
*W2EG	3,785	69	22 1
*K1R1W	1,065	34	15 0
*N2JL	920	20	20 0
*K02N	174	-2	0 6
DELAWARE			
*N8NA	37,760	236	45 14
*W3AV	9,636	121	29 4
*W3ASW	1,890	42	18 0
DISTRICT OF COLUMBIA			
*W3DQ	21,360	169	39 9
MARYLAND			
*K4D	525,100	1038	52 66
K3ZD	498,229	1016	55 61
W6GJ	402,192	862	52 60
K3TC	216,800	607	52 48
AA3S	180,084	671	47 39
W3KL	142,080	546	47 33
*W3JUL	64,377	292	41 28
*K3UK	57,950	392	49 12
*W3KA	55,839	311	48 18
*W3FAE	54,936	418	44 12
N3CY	46,386	365	45 4
KG4USN	38,254	157	36 26
*W3JUL	35,670	226	44 14
W3PH	20,726	206	38 5
N3TE	19,932	183	38 5
*K3NDM	5,239	68	29 3
*W3VKD	392	10	4 4
*W3WTD	296	17	8 0

PENNSYLVANIA			
W3BGN	633,204	1189	56 67
K3UL	546,608	1031	57 70
W3TS	213,691	682	53 44
W2G	145,209	382	47 50
K3SWZ	90,446	301	44 38
N3XZ	70,818	214	49 38
K3GJ	62,965	389	48 17
*W3CV	49,920	354	47 9
KW3A	35,695	236	45 14
*N2EM	33,418	294	42 7
*W1AHEW	25,380	213	40 7
*N3LT	14,445	139	41 4
K3VZ	14,310	128	39 6
KA2C	10,260	91	27 9
*K3HW	3,570	67	20 1
*N3SW	1,944	33	23 1
*N3DR	1,620	39	18 0
N2TD	1,204	17	9 5
*W3BLHD	1,139	32	17 0
ALABAMA			
AG4W	820	52	55 5
*K1DC	187,678	614	59 59
N4NO	61,540	356	49 19
*W5NZ	14,208	98	35 13
*KS4L	1,628	34	21 1
*W4MTM	432	15	11 1
FLORIDA			
NE3P	207,445	617	51 44
KJ4OHL	142,105	486	48 49
N4UM	76,032	421	48 24
*W4TDH	73,264	328	47 29
AE2D	46,830	255	47 23
*N4EK	45,656	364	39 13
N4FP	42,021	220	40 23
N4BT	39,061	192	45 13
*N4EH	28,072	197	45 13
W8IM	16,524	110	39 15
*W3USA	12,685	110	33 10
*K4SXT	12,212	100	33 10
*K8MR	11,600	118	33 7
*KM2T	9,912	93	34 8
*K2ZR	9,184	99	32 9
*K6RGI	8,128	96	38 8
*N4T45	4,180	22	16 3
NA4CW	1,680	15	0 14
*KN4DXT	160	10	7 1
GEORGIA			
NO9E	272,200	818	54 46
KUBE	249,996	797	54 48
NE4EI	77,049	524	48 15
W4AN	56,100	333	51 17
K4ZMV	50,890	236	45 25
*N4JVP	35,802	283	43 11
*KJ4JC	13,200	123	39 5
*K4K4WX	2,725	50	24 1
*W4EJL	574	19	10 0
*K8LBO	160	10	8 0
KENTUCKY			
W5MX	729,270	1374	58 77
K4WV	159,456	643	52 36
*K4WCW	70,840	396	49 21
*K4RGS	39,805	203	42 9
KD4EE	24,864	212	41 7
*K4M4FO	24,610	226	41 5
NORTH CAROLINA			
N4XD	667,584	1290	56 66
N4AF	563,892	1192	57 65
W8BY	179,313	547	49 19
W3DD	28,860	180	39 21
*N2CKI	20,840	229	36 4
*AD8J	20,160	182	37 10
W6E6	19,257	162	39 8
*K4KAY	13,407	103	29 12
*K4B5K	10,404	127	33 3
K4KZ	9,673	98	32 6
*W4ZJLW	4,384	50	26 6
*W4GHV	3,100	56	24 1
*K6RM	1,014	36	13 0
SOUTH CAROLINA			
NN4SS	69,615	464	49 14
N1FM	55,096	249	45 26
N1FO	28,860	180	39 21
*N4XL	13,386	129	42 4
*W8AQR	12,455	100	39 8
NJ4F	4,830	50	22 8
*K4DAS	390	11	7 3
TENNESSEE			
K4RD	346,170	789	56 54
AC4G	186,147	416	54 57
*K4OAO	103,530	637	52 18
W4UT	100,110	593	51 20
*W4SPOK	72,829	418	47 20
*K9DQR	53,100	485	43 7
W84DY	42,160	263	48 14
W4NZ	29,875	202	43 12
*KS4X	25,428	210	45 7
*W3TB	24,888	207	43 8
*WD8RYC	6,888	64	36 5
*K4DXV	24	3	4 0
VIRGINIA			
K3ZM	1,112,238	1627	58 71
W4CB	666,560	1365	56 64
W4AJUK	140,302	601	50 32
*K4ORD	108,978	406	48 34
NG2H	106,110	301	50 40
KGZR	94,536	488	49 23
K4ZV	75,960	345	48 24
*K2WK	59,340	420	47 13
K4RDU	44,793	270	46 17
N4DJ	41,958	343	49 19
*N4FX	40,512	217	45 19
*N4UJ	34,465	153	32 23
*K4FTO	33,804	234	40 14
*W4WVQ	30,566	185	41 17
*K8LF	19,943	153	35 10
*W4PJW	18,446	177	42 4
*K4H3N	14,760	168	31 11
N4OK	14,564	130	33 11
N3KN	11,628	130	33 5
N8AID	9,345	77	25 10
WN7S	8,587	128	29 2
*K4YCR	8,349	110	31 2
N3JB	6,897	58	23 10
*W4RI	6,090	72	29 4
*NN4RB	4,023	63	25 2

*K4MI	3,278	64	21 1
*W2YE	1,005	26	15 0
*K4ML	992	28	16 0
W4ZYT	714	22	11 3
ARKANSAS			
W5ZN	590,117	1250	57 64
W5SR	421,689	1138	56 55
*N5EE	65,142	448	51 12
*KH6GK/W5	61,346	380	47 27
*W5SOG	56,100	248	50 16
W5JF	40,566	303	49 10
W5BDO	25,036	259	42 5
KD5J	22,419	207	42 5
K9OZ	21,930	172	41 10
LOUISIANA			
241,020	808	55 48	
54,360	391	50 10	
10,988	121	37 4	
*K5KU	1,620	39	18 0
*KVB8	1,204	17	9 5
*W5ZZ	1,139	32	17 0
MISSISSIPPI			
303,632	715	53 59	
104,480	424	50 30	
47,253	337	45 12	
8,288	103	35 2	
4,185	57	28 3	
40	2	0 4	
NEW MEXICO			
492,366	1240	57 57	
106,480	445	53 27	
76,206	347	51 27	
OKLAHOMA			
12,831	118	42 5	
6,039	93	32 1	
TEXAS			
263,292	662	55 56	
9			

FM5BH	Martinique	762,600	919	53	71	*JE4URN	140	6	0	4	OK1DW	5,640	24	6	18	*TA1NAI	European Turkey	11,550	106	0	21	HG5D	Hungary	756,276	1267	30	77	
FM4LV		1	1	0	0	*JM7GTK	87	10	0	3	*OK1FUK	3,654	34	0	21		Finland	335,987	799	14	65	HA7SBQ		140,910	501	2	53	
						*JN1BBO	58	13	0	2	*OK2BH	3,540	35	0	17			263,310	749	9	58	*HA4YF		103,243	418	1	48	
						*JQ1COB	50	2	1	4	*OK1DXW	2,686	34	0	20			176,784	596	0	58	HASJP		60,104	268	0	44	
XE2X	Mexico	1,352,124	1545	59	79	*JF3ROH	38	8	0	2	OK1DWJ	490	7	0	7			176,784	596	0	58	*HA2MN		16,150	115	0	29	
*XE2NBW		1,632	20	14	2	*JG3QVP	20	2	0	2								176,784	596	0	58			60,104	268	0	44	
						*JA3GZE	12	6	0	1									176,784	596	0	58			16,150	115	0	29
						*JR1BVP	12	3	0	2									176,784	596	0	58			60,104	268	0	44
						*JG5XW	8	4	0	1									176,784	596	0	58			16,150	115	0	29
KP3MM	Puerto Rico	778,848	1030	52	62	*JF10PO	6	3	0	1								176,784	596	0	58			60,104	268	0	44	
*KP4MD		630	18	7	0	*JE11LP	2	1	0	1								176,784	596	0	58			16,150	115	0	29	
																			176,784	596	0	58			60,104	268	0	44
																			176,784	596	0	58			16,150	115	0	29
*J68HZ	St. Lucia	102,480	193	40	44														176,784	596	0	58			60,104	268	0	44
																			176,784	596	0	58			16,150	115	0	29
NP2P	U.S. Virgin Islands	1,523,162	1510	57	82														176,784	596	0	58			60,104	268	0	44
KP2M		1,448,912	1467	57	80														176,784	596	0	58			16,150	115	0	29
NP2J		1,322,752	1494	56	72														176,784	596	0	58			60,104	268	0	44
																			176,784	596	0	58			16,150	115	0	29
																			176,784	596	0	58			60,104	268	0	44
																			176,784	596	0	58			16,150	115	0	29
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																			176,784	596	0	58			60,104	268	0	44
																			176,784	596	0	58			16,150	115	0	29
																			176,784	596	0	58			60,104	268	0	44
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W3VJ	218,463	561	51	50
W3W3	208,110	532	51	54
K3WJ	194,194	797	54	37
K3O0	158,304	294	37	59
*W5KB	153,024	409	40	46
K3PP	140,440	392	50	41
K3UA	100,490	451	49	51
K3RL	106,893	210	52	59
W3FZ	102,706	291	43	46
*N3JK	98,276	442	50	29
N3FR	78,151	347	47	28
K3FMQ	77,088	194	38	50
KD3TB	66,456	245	43	35
NB3Z	53,889	251	43	26
KU2C	46,008	188	41	30
K6ND	41,544	154	38	34
AG3I	39,900	248	45	15
N3RJ	31,955	197	39	16
W0BR	31,080	174	43	17
N3ZA	22,372	177	38	9
W3WH	21,522	153	41	10
W3EA	21,360	69	15	33
W3A3AN	14,796	174	35	1
*K3SA	8,070	108	27	3
K3WGR	5,076	32	12	15

ALABAMA				
N2NL	334,278	691	54	72
KR4F	211,254	599	53	53
AB4B	118,176	307	48	48
KX4X	70,585	183	52	43
W4RYW	67,040	240	49	31
W4UAL	49,840	239	46	24
K4CWW	34,272	207	47	16
K8KI	23,922	163	41	13

FLORIDA				
N4BP	478,728	1048	57	65
N4EXA	374,604	835	55	69
K5GK	315,408	716	53	65
W0AD	278,424	704	49	60
W54G	163,696	248	42	62
K3SV	138,944	291	50	54
K9OM	105,984	293	46	46
KM4HI	81,012	262	45	41
N7TCW	60,789	239	41	28
K4CQD	47,310	346	43	14
WA7AN	32,067	134	35	28
W54J	28,912	222	42	10
*AA4NP	14,852	128	38	9
N4UJ	13,508	110	33	11
*K2SG	12	12	1	0
*N0SMX	6	6	1	0

GEORGIA				
AA5JF	49,206	349	45	14
*N4TOL	24,450	208	43	7
K4ZJL	22,410	97	30	24
*N4Y	6,612	73	33	5
*K4VBM	2	1	0	0

KENTUCKY				
N4QS	276,533	717	54	55
N4AY	150,241	617	52	39
K4FT	83,640	313	47	35
K840ZH	48,620	238	46	22
*K4FN	29,224	241	46	6
*W4PF	7,920	92	33	3

NORTH CAROLINA				
K2AV	709,000	1320	57	73
W1ZD	218,922	484	52	55
*N4IJ	194,040	432	50	44
N4YDU	145,606	486	50	60
N4GU	98,784	263	46	50
K1KK	34,038	176	41	20
*K3TD	8,283	102	29	4
N3ND	3,096	57	24	0

SOUTH CAROLINA				
AA4V	353,760	797	54	66
K4YVL	87,300	294	50	40
W4MEL	26,106	177	43	14

TENNESSEE				
AD4EB	426,873	1039	58	64
K3IE	306,820	728	53	63
N4VV	198,275	411	49	54
AA4DD	153,648	411	51	46
N4ZZ	59,414	408	46	15
N4NA	51,389	295	51	16
*NA4RO	47,519	327	48	13
K3JWJ	46,428	227	48	25
K4AFE	18,411	138	40	11
NS4X	10,728	130	32	4
KC4NX	1,045	11	0	11

VIRGINIA				
N4RV	649,306	1203	57	76
K4XL	1036	56	71	
W56X	439,125	870	56	69
W3IP	297,965	696	52	63
W4PK	263,304	646	51	55
N3UA	216,134	512	47	59
N3CW	191,586	512	54	57
W5Y5	183,261	490	51	60
W4AS	117,924	411	50	53
N3JT	161,095	502	51	50
KG3V	114,312	302	44	44
N4CF	107,485	413	51	32
*W4PM	75,663	474	45	18
KA4RRU	66,171	292	45	19
N3APR	63,376	357	49	19
N3XA	45,964	332	44	12
N6DW	45,085	180	42	29
W4VIC	43,680	233	33	23
KA4CDN	37,504	196	45	19
AD4JT	21,744	185	40	8
KS0CW	14,036	127	35	9
W1IE	12,528	107	47	1
*N2QT	9,648	99	32	4
KG4W	5,664	28	22	2
*AB4SF	495	24	11	0

ARKANSAS				
W5KI	39,345	256	50	11
K5RM	32,433	242	47	10

LOUISIANA				
W5WZ	20,240	114	38	17

MISSISSIPPI				
W2GS	50,610	230	47	23

OKLAHOMA				
W5TM	202,752	788	56	43

K5LV	34,132	284	48	5
NSUM	32,025	205	47	14

TEXAS				
NSRZ	396,060	1134	58	57
K5BC	190,183	561	53	48
K3NA	145,537	299	54	65
K5KJ	124,614	574	55	31
K5NZ	119,691	460	56	37
AD5A	108,158	459	50	32
NS5X	88,642	398	51	31
W0VX	34,928	234	43	16
NS5J	32,835	244	45	10
NSWNG	19,451	139	44	9
W5PR	12,384	89	37	11
K5TE	5,544	57	25	8
*WB0TEV	3,706	50	32	2
*K5E1Q	3,190	49	26	3
N5DD	742	17	12	2

CALIFORNIA				
W0DT	120,360	524	54	31
W6DR	70,226	353	53	20
N6IE	69,509	348	51	20
K6SRZ	51,813	276	42	15
N6CW	40,832	244	39	19
K6RC	38,114	239	45	14
NSZO	30,840	193	48	12
N6CK	28,037	222	44	9
W6EZ	22,000	148	44	11
KF6I	14,440	149	34	6
N5RC	9,952	135	28	4
N5RC	3,668	50	23	1
W6MOB	1,950	33	20	6
N6GE	1,560	42	13	2
N6PM	1,312	26	11	0
*W0BX	1,001	44	11	0
W6CI	344	20	7	1
N6K1	5	1	0	1

ARIZONA				
N7DD	482,632	1020	57	65
W0R1C	215,919	778	56	43
N7CZ	157,510	640	53	32
AB7E	142,560	545	53	37
WA7AN	108,320	533	54	26
W6X1	102,600	342	50	40
*W7RH	79,200	378	51	24
K7FA	44,525	266	48	14
W7GES	37,944	217	45	17
K7WP	23,100	190	41	9
W6RW	19,581	107	46	15
K6LL	13,052	99	44	8
N7RO	13,000	80	40	12
*K7GA	9,789	103	33	6
K3WYC	4,950	87	24	1

IDAHO				
K67CW	183,222	749	55	32
K0IP	10,879	106	39	4

MONTANA				
N7IP	69,993	319	52	25

NEVADA				
K7XC	54,384	277	48	18

OREGON				
KABIM	177,177	676	54	23
K4XU	88,627	396	54	23
KJ1CW	85,085	436	49	16
KM7K	19,760	217	34	4

UTAH				
K7NJ	410,193	1015	59	60
W7CXX	119,510	671	55	19
W7CT	105,120	498	53	19
K7UT	96,114	402	54	29
NS7B	6,370	72	31	4

WASHINGTON				
K7RL	80,580	349	53	26
W6DAT	40,114	214	46	16
K7SS	37,449	215	44	13
N7BV	37,164	267	47	10
K7BTW	19,504	126	35	11
*W7CD	14,491	102	34	9
K7PW	7,250	92	24	2
N7FR	2,536	52	4	4
K7EG	2,204	32	15	4
N7EPD	798	21	13	1

MICHIGAN				
W0MJ	544,000	1303	58	67
N8LJ	125,427	481	55	35
*K0ACP	46,970	315	51	10
*K3EK	33,496	263	47	8
W8UTSUDX	30,085	224	47	6
K8VT	23,904	215	43	5
N8FM	22,313	152	41	12
*K8GT	4,131	83	26	1
W8PI	3,741	47	25	4

OHIO				
K1LT	807,380	1375	58	82
N8TR	324,632	630	56	68
W0HKK	274,716	726	56	61
N8RL	167,388	427	52	59
*K8BL	71,610	293	49	28
*K8AJ5	53,020	415	45	10
K8BG	51,520	211	43	27
W8EH	39,669	219	41	20
*K4YJ	32,016	204	43	15
N8IW	31,140	139	36	24
*K8LY	26,364	188	43	9
*W8KNO	24,795	237	41	4
N8VU	15,795	150	41	4
N8R9	11,808	99	29	9
*K8CR	4,572	45	30	6
N8NB	4,320	31	20	12
K8ALM	3,556	43	24	4
*AB5W	2,266	50	22	0
*AF8C	1,387	33	15	4

WEST VIRGINIA				
N3HE	184,655	1284	57	82
N8WU	164,016	372	49	53

ILLINOIS				
K69X	484,470	1109	58	68
N8CD	457,454	859	58	69
K9NR	382,104	1033	57	59
K9XD	328,782	1044	58	53
N9LQ	207,684	546	57	51
N9DG	178,398	592	56	43
AC9S	164,208	664	55	33

K9MMS	162,552	424	52	52
K9XW	137,804	501	54	40
K9NO	115,526	318	49	45
K9IUQ	114,205	335	48	43
*K9OS	52,765	374	52	9
*AB9YC	47,849	364	52	7
N2BJ	43,248	356	50	3
*K9PG	40,820	177	42	23
A19T	39,813	199	47	22
*W9LEY	37,620	270	47	10
W9YV	35,300	310	47	3
*N7ZU	31,104	241	49	5
*K9JL	26,622	176	46	12
N06N	21,684	107	33	19
*K0DP	16,500	168	41	3
K9PY	14,828	140	41	3
*W8BZK	12,600	31	39	3
*K9J	9,963	108	40	1

INDIANA				
W79U	178,293	597	56	47
K9VJ	76,674	246	46	32
W9PA	75,560	301	49	31
KR9U	51,430	164	41	33
K9L9	29,640	208	50	10
N9DR	27,384	174	43	13
*AE9LL	4,309	68	31	0

WISCONSIN				
W0AII	523,404	1189	58	68
K9IMM	300,699	867	58	53
N9UJ	153,504	417	49	47
*W9XT	143,792	652	57	29
W9VJ	125,			

*G3RKC	21,640	112	2	38	OH2XX	250,588	759	7	54	*DK2CC	43,381	182	3	44	Liechtenstein	205,200	486	17	59	*Y06FGZ	69,160	341	0	40	Y06BFX	3,885	34	0	21	Scotland	392,832	804	25	63	MM2N	272,720	592	17	68	GM3YEH	272,720	592	17	68	Y06BFX	3,885	34	0	21
*M3SOC	18,496	115	0	32	OH2B0	205,722	298	24	75	DJR9R	43,332	191	0	46	Lithuania	1,367,380	1638	45	95	*Y1T8A	607,110	1031	21	84	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
G4LLP	13,311	96	0	29	OH1F	203,931	613	3	60	DL1STG	39,216	163	0	48	LY4A	1,367,380	1638	45	95	*Y1U8R	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
G0DWW	8,036	47	0	28	OH1XX	186,533	271	26	77	*DL30H	38,478	141	3	50	LY7M	1,313,820	1610	43	92	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*G4NMG	6,168	52	0	24	OH1JD	165,540	504	1	61	OH2JH	111,153	305	3	60	LY2M	959,484	1459	26	65	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*G4MOM	2,736	34	0	18	OH1R	99,153	305	3	60	DL9NDW	37,820	163	0	45	LY5W	681,590	1292	19	79	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
G3ZCG	200	5	1	4	OH7MFO	74,677	266	0	53	OH7KBF	70,312	306	0	44	*LY4Z2	525,976	1107	18	70	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
ESSRY	610,812	1179	15	79	OH6D5	63,954	206	3	54	*DA0DOM	35,530	206	0	38	LY2K	469,033	1066	15	68	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*ES0DJ	292,629	784	10	59	OH6TN	31,710	141	2	40	*DK8AX	33,555	156	0	45	LY3N	431,694	907	17	70	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*ES4NY	241,536	713	7	57	*OH2BFP	20,856	130	0	33	*DF2LH	34,944	111	6	37	LY2X	390,000	993	10	65	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
ES3TI	99,123	318	6	51	OH8WR	11,745	85	0	27	DK5JM	31,560	123	5	47	*LY2Y	320,000	993	10	65	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
ES1BH	25,160	143	0	34	France	981,045	1332	44	73	DL8DBW	36,572	197	0	41	LY2Y	320,000	993	10	65	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
European Russia	716,240	1172	26	86	TM5EE	981,045	1332	44	73	DL5DBY	32,454	173	0	42	LY5O	244,764	587	11	67	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
UA5C	632,854	1064	24	85	F6GCP	277,290	547	19	71	*DL5AL	30,644	120	0	47	LY2OU	154,560	543	3	53	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RT2X	626,910	1112	20	87	F4FFZ	191,596	463	15	61	DL4FDI	29,785	177	0	37	LY5R	131,936	405	1	61	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
UA10MS	591,840	1138	11	85	F6EZY	145,665	420	5	60	*DL4SDW	27,720	125	1	43	*LY2DX	120,096	494	0	48	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RA3W	541,911	1121	14	79	F6EZY	91,991	238	1	56	DL4JMX	24,453	130	0	39	LY2AX	109,270	438	2	47	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RV1CC	540,423	1098	17	76	F6BIX	37,738	173	0	42	*DL10C	24,198	146	0	37	LY2X	105,798	302	4	57	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RC3FL	487,458	915	23	79	*F5DRD	18,166	117	0	31	*DM4MN	23,436	109	1	41	LY2FN	63,932	278	0	44	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RK3ER	471,060	1024	14	76	Germany	1,050,400	1450	40	90	*DL20E	22,134	100	3	39	LY2M	30,044	158	0	37	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RG5A	431,431	888	15	76	DK6WL	1,005,576	1372	43	89	*DK6GW	22,040	129	0	38	LY2BAW	28,120	148	3	34	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
UB5A	414,791	866	5	76	DJ6LW	1,005,576	1372	43	89	DF1HF	17,658	55	2	52	*LY5Y	16,678	116	0	31	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*RL6M	413,402	909	18	68	DJ6LW	1,005,576	1372	43	89	DF5MA	17,204	102	0	32	Luxembourg	1,479,226	1848	44	90	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
R4KO	343,064	895	2	74	D04D	912,022	1309	39	75	*DL2XM	17,145	96	0	37	LX2DI	1,479,226	1848	44	90	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RK3DK	333,756	902	8	65	DL2SAX	735,423	1288	33	76	DL7UH	17,145	96	0	37	LX1ER	75,530	207	6	59	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RAGA	330,429	663	21	72	DL2XUH	721,280	1149	38	77	DC7ME	15,136	105	0	32	Moldova	229,451	746	1	58	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RA4FW	328,212	778	12	69	*DF1MM	654,656	1210	33	73	DF2TT	14,960	61	0	44	ER4	229,451	746	1	58	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
*UA5F	324,923	893	10	63	DK2OY	604,800	1167	27	73	*DK9TN	14,420	94	0	35	*ER3DX	72,944	290	0	47	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RT2D	321,750	869	10	65	DL3ZM	560,488	1145	29	66	*DG1HXJ	13,172	71	1	31	PA9M	741,762	982	42	84	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RS0T	861	89	0	65	DL6MH	558,054	1044	30	66	DJ1AA	11,550	50	0	42	*PC3T	524,892	936	28	74	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
R4D4C	312,206	899	5	69	DL4CF	549,814	1061	29	74	DK0AE	11,550	50	0	42	PA5KT	516,097	713	36	63	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RK3M	302,952	736	5	73	DK3WW	521,586	828	34	83	DL5CW	10,263	48	8	25	PA0AV	413,393	634	34	67	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RA1QD	299,250	783	8	67	DL8UAT	514,995	1039	27	68	*DL6WA	10,115	56	0	35	PA3AO	335,329	590	31	66	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
RW1C	260,700	889	1	59	DJ9AO	502,736	919	33	71	DG8HJ	9,960	47	0	40	PA3FOA	315,115	493	33	74	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
R3AP	259,594	661	8	71	DL6FB	474,331	714	41	66	*DL2GAN	8,764	66	0	28	PA3C	242,414	416	29	70	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
UA30GT	256,425	680	10	65	DK9IP	449,226	925	24	70	*DM8T	6,371	68	0	23	PA5WT	205,288	584	10	57	Y1T8A	436,202	928	21	65	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21	Y06BFX	3,885	34	0	21										
UG4I	759	81	0	61	DL3DTH	436,914	1009	20	67	*DK9XX	5,000	40	0	25	PA0JLS	122,554	410	3	55	Y1T8A	436,202	928	2																										

*NN5T	735	23	14	1	*K8VGL	8,512	100	37	1	*W3UX					Puerto Rico					R300	1,391	31	0	13	*IUGJK	1,972	25	0	17
*W5DSS	162	9	9	0	*K9GX	7,750	118	29	2	*W4P4F					51	19	11			R500	1,232	23	0	11	*IU4JHC	1,820	29	0	14
K5FNRS	50	5	5	0	*W9TC	5,053	70	29	2						2,268	20	0	14		*UA4FER	952	25	0	7	*IU0APU	1,224	24	0	12
CALIFORNIA					N9MR	4,768	67	31	1	AFRICA					*R4FCJ	810	16	0	10	*IX1CLD	836	17	0	11					
W6FA	14,250	167	33	5	KJ9C	4,544	65	30	2	Canary Islands					RK7F	531	15	0	9	*IK2IKW	522	14	0	9					
AIGL	6,972	108	29	2	*AC9EZ	3,818	66	26	0	21,132	60	12	24	*R5FR	322	11	0	7	*IK2SAR	246	10	0	6						
*NLL	3,197	55	20	3	*WB9NOO	2,645	50	23	0	4,536	27	0	18	RAS3C	205	10	0	5	Latvia										
KE6QR	3,094	85	17	0	*W9MRH	2,400	47	24	0					*R2EL	148	11	0	4	YLT7	223,040	662	11	53						
*WN6K	1,460	35	19	1	WISCONSIN					ASIA					*YL20G	32,490	215	0	30										
KW6S	864	33	10	2	N9GH	22,896	184	50	4	Asiatic Russia					*YL2PP	6,216	50	0	24										
*KA9A	360	20	9	0	*W9AV	14,196	151	41	1	84,398	240	0	38	*OH6ECM	20,160	145	0	28	*YL3KW	3,696	54	0	14						
*WB6KDH	175	11	6	1	N9SZ	13,735	145	39	2	35,735	131	0	31	OH1LR	2,445	32	0	15	Lithuania										
*WB6EK	386	6	3	0	*K9VER	3,744	66	26	0	1,407	32	21	0	*OH1XFE	2,015	31	0	13	LY5W	158,688	595	4	49						
*K7XE	32	4	4	0	NN9C	3,591	59	27	0	R9CS	21,950	96	0	25	*OH6EPM	60	4	0	3	LY2BW	147,732	557	3	49					
*W6JK	30	5	3	0	*AC9TO	208	13	8	0	RZ9WU	5,148	47	0	13	Germany														
AG7JQ	24	4	3	0	COLORADO					4,411	51	0	11	DF2DJ	64,100	272	4	46											
ARIZONA					N0KO	2,150	40	25	0	*DG5MLA	45,150	263	3	39	DL2SAX	58,056	330	0	41										
N7RK	18,179	148	46	7	AK0BC	1,407	32	21	0	*DH4RJ	42,439	268	1	36	DLOESA	47,360	267	1	39										
K7HP	5,478	70	30	3	*WAGEJX	788	24	16	0	*DP3P	32,294	245	2	40	*DK1KC	45,360	274	1	39										
W7ON	1,615	38	17	2	IOWA					4,121	25	0	8	*D65MJA	45,150	263	3	39											
KB7AZ	1,152	29	16	2	NG7A	25,965	264	42	3	*R99A	4,411	51	0	11	*D9HJ	42,439	268	1	36										
*K7HR	340	17	10	0	*NBGZ	20,972	196	47	2	R9A9EA	660	11	0	6	DF1TB	40,373	193	4	43										
IDAHO					KD0ZV	14,760	149	44	1	*R8MB	120	8	0	3	DL1GWS	32,301	202	1	36										
K0IP	3,366	72	22	0	N0DD5	10,603	93	40	5	*DL2OE	31,198	195	2	36	*D040D	30,693	182	3	36										
*KJ7YY	786	21	16	0	*K0SRL	4,608	63	31	1	*TA2LP	300	6	0	15	*DL8DSL	30,400	184	1	37										
*W7TX	174	13	6	0	*K10EO	1,121	28	19	0	*TA4RC	260	6	0	5	DL5AWE	30,340	165	3	38										
MONTANA					*AD0H	504	18	14	0	Georgia					DJ6JL	28,880	205	2	33										
*K7VIC	6,688	72	35	3	KANSAS					7,416	43	0	18	*DM5SB	26,705	173	0	35											
*AB5ZA	2,340	39	26	0	W0NO	70,943	525	53	8	42L2M	42,900	152	0	30	*DJ1WF	23,555	153	0	35										
NEVADA					W0BH	11,172	129	41	2	4Z5LY	34,110	118	0	30	DK7AM	23,528	163	2	32										
WU6W	910	35	13	0	*NB0Y	9,374	96	39	4	*EX8MK	150	7	0	3	*D00Z	23,086	160	3	31										
*N7XCZ	112	8	7	0	N0YET	5,742	80	31	2	Israel					DLK6G	21,248	156	0	33										
OREGON					NZ0F	3,654	63	29	0	Kyrgystan	150	7	0	3	DJ6JL	21,624	134	0	32										
W7ZB	7,887	99	30	3	KD0E2S	2,314	43	25	1	EUROPE					*DL8BZ	17,391	137	0	31										
*AF7NX	1,717	51	16	1	K0AP	2,280	40	23	1	Austria					*DK0BM	17,360	157	0	28										
*K7FRS	576	26	9	0	MINNESOTA					DM4X	17,052	140	0	29	*DL2TOS	16,071	113	0	33										
UTAH					K0TT	89,962	638	54	8	*DJ4MH	15,720	130	0	30	*DJ4BU	15,500	115	2	29										
NG7M	4,524	72	28	1	K0YR	59,177	450	54	5	DJ700	15,500	115	2	29	*D040D	14,580	112	0	30										
K7FZN	480	20	12	0	*NBGC	40,698	366	49	2	*DA0DDM	14,580	112	0	30	*DL9DM	13,830	101	0	30										
WASHINGTON					K0MD	28,150	256	50	0	DL1AX	13,608	111	0	28	*DL2NBJ	13,543	104	0	29										
N7AU	23,970	221	44	3	N0OK	15,980	151	44	3	*DK4Z2	13,496	123	1	27	*DB4LL	12,987	110	0	27										
K7IU	10,560	145	31	2	N0LY	10,692	102	41	3	*D84LL	12,987	110	0	27	*D6BVB	17,852	114	0	27										
K7STO	4,228	73	25	0	N0JY	10,992	102	41	3	DL8LS	12,828	101	0	28	*DL0AVH	12,557	100	0	29										
N700Z	1,590	47	15	0	N0JY	10,992	102	41	3	*DL8BF	12,428	116	0	26	*DL8ZU	11,882	119	0	26										
*N7GCO	1,552	41	15	1	W0B0VAK	10,542	99	39	2	DL6MFK	11,310	95	0	26	*D01UKR	11,116	94	0	28										
WX7P	1,513	37	17	0	K9WN	384	16	12	0	*DM2AJW	10,488	100	0	24	*SP80V	10,488	100	0	24										
*N7ZUF	1,260	45	12	0	MISSOURI					Bosnia-Herzegovina	13,857	88	0	31	*SP8T	15,678	129	0	27										
KB7BT	688	36	7	1	K10I	66,154	483	54	8	EUA4E	33,826	200	0	33	*SP9TKW	23,255	143	0	34										
WG7X	590	25	10	0	*K0PHP	19,635	181	48	3	EW8R	29,977	185	2	29	*SP6A	23,002	157	0	31										
K17DG	584	32	8	0	N0LBY	10,878	115	39	3	*E77EE	13,857	88	0	31	*SP2GR	20,736	117	4	32										
*KE7ZAC	238	14	7	0	NW0DM	2,398	50	22	0	Bulgaria					*SP2GR	20,736	117	4	32										
*K67DAB	16	4	2	0	K8MCM	944	28	15	1	11,729	544	2	43	*SP2DMZ	8,400	73	0	24											
*K7JLAN	12	3	2	0	NEBRASKA					Croatia	2,400	40	0	12	*S08T	6,644	63	0	22										
*W7FZY	1	0	0	0	W0B0BGZ	17,484	173	45	2	Czech Republic	113,729	544	2	43	*SP2LW	5,548	62	0	19										
MICHIGAN					NF0N	1,273	32	19	0	OK1KPU	43,396	237	1	37	*SP9HZW	4,320	50	0	18										
N8AV	199,822	1016	55	26	NORTH DAKOTA					OK1LRD	42,066	225	0	38	HF7S	3,933	45	0	19										
*W8CO	89,205	694	53	4	K0IDX	105,690	697	54	11	OK1HFD	43,396	237	1	37	*SP8CHC	3,933	45	0	19										
*W8GP	51,012	446	49	3	SOUTH DAKOTA					OK10A	42,066	225	0	38	*SP9DEM	3,825	48	0	17										
N80L	48,510	395	50	5	*W0DT	18,277	173	47	2	*OK2BRQ	35,013	221	1	32	*SQ9PMT	3,808	50	0	16										
WN8HCV	8,584	110	37	0	CANADA					OK1K	29,222	156	2	36	*SQ5PMB	1,104	19	0	12										
*K8ZO	5,888	83	32	0	NEW BRUNSWICK	1,274	20	14	0	*OK1KJ	22,214	164	0	29	Portugal														
*K8M2J	3,075	54	24	1	NOVA SCOTIA	7,272	62	21	3	16,744	127	0	26	19,705	106	0	35												
*K08GBK	2,305	45	23	1	VA1RST	7,272	62	21	3	Croatia					Romania	45,991	246	1	36										
WM8Z	2,139	42	22	1	PRINCE EDWARD ISLAND	745,461	1033	56	57	2,400	40	0	12	Y06FNA	37,126	189	1	37											
*K7DR	340	17	10	0	QUEBEC					Denmark	26,272	166	0	32	*Y05IA	12,225	98	0	25										
OHIO					*VE2HAY	6,720	70	21	0	0214N	11,984	111	1	31	8,660	89	0	20											
ND8DX	213,891	1031	55	28	*VA2LQG	1,365	21	12	1	021D	11,882	90	0	26	*Y036SK	6,292	56	0	22										
K8RR	86,800	622	54	8	*VE2QV	1,183	20	13	0	0V1RR	2,325	31	0	15	*Y09BD	5,849	63	0	21										
N8B1	78,660	613	50	7	*VE2GT	174	7	6	0	England					*Y07LDT	1,224	21	0	12										
W8MET	50,924	491	44	2	ONTARIO					56,212	204	9	43	*Y02LXW	520	13	0	8											
KW8N	40,700	364	46	4	VE3PN	205,190	555	48	23	G44FJ	26,896	127	3	38	*Y04TKR	400	10	0	8										
*K8BCN1	26,673	240	46	5	*VE3MGY	203,112	671	54	8	G00JK	15,890	114	0	28	*Y08ZJ	1,822	17	0	11										
*K8MJK	26,010	270	44	3	VA3AZ	117,355	488	44	5	G4L	6,440	56	0	23	*Y09JDD	1,777	28	0	12										
*W8BJU1	17,983	163	46	3	*VA3AW	99,603	403	45	6	M0MVCV	4,940	52	0	19	*Y02LXW	520	13	0	8										
*K08BB	15,951	185	37	2	*VE3UR	38,581	192	38	3	G1VWC	330	11	0	6	*Y04TKR	400	10	0	8										
*AB8OU	12,558	143	37	2	*VE3UY	19,807	145	27	1	Estonia					Slovak Republic	60,952	320	0	38										
*W8KNO	10,920	124	37	1	*VE3TW	14,790	108	28	2	301,000	809	14	56	OM7RJU	41,790	235	0	35											
*K69Z	10,413	113	36	3	VE3KZ	14,728	1																						

*SM7ATL	1,488	26	0	12	K8ZT	OHIO				K2RET	29,068	217	41	11	NX3A	1,377	33	16	1	VA3WV	39,039	208	36	3					
*SE5N	1,125	25	0	9	*KA2K	7,910	101	34	1	*KA2K	24,639	253	39	4	W4PFM	1,216	26	14	2	VE3SS	10,943	73	31	0					
*SA6SKA	520	13	0	8	W8BDC	2,720	59	19	1	WR2G	15,190	177	31	4	*W4VIC	147	12	7	0	*VE3JL	3,366	38	18	0					
										WA2FZB	6,090	88	29	1						*VE3HED	1,411	16	17	0					
										N1B1M	4,266	69	24	3															
										N2JW	2,281	54	23	4															
										*KD2SGM	2,289	47	20	0															
										*KE2D	1,358	44	14	0															

