



Virginia QSO Party

2019

Pre-Brief

Sterling Park Amateur Radio Club (SPARC)

http://www.qsl.net/sterling/VA_QSO_Party/QSOParty.htm

Gordon Miller, NQ4K

12 November 2018 – Updated

3 Dec 18 – Minor edit

1 Jan 2019 – 2019 Certificate pg 72 & 88

29 Jan 2019 – 2019 Certificate pg 88.

14 February 2019 – Updated plaque sponsors

8 March 2019 – Update link on pg 5

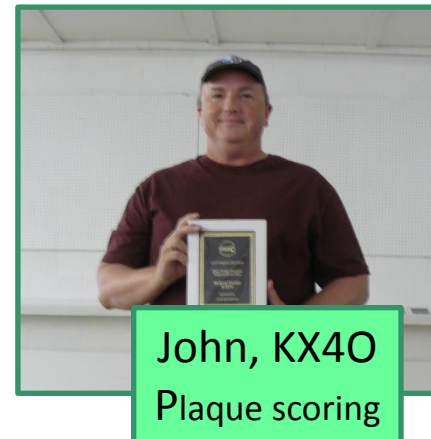
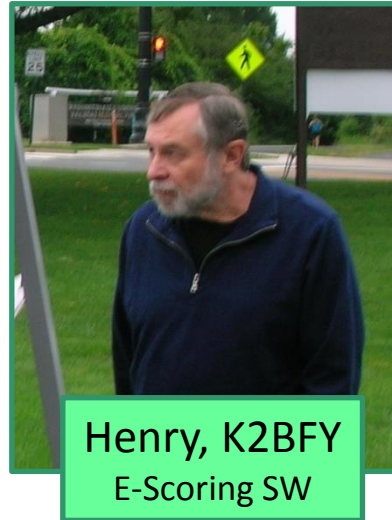


Topics



- Hams who helped
- Plaques
- Rules
- New Issues
- Meta-Analysis of the 2018 QSO Party
- All Time High Scores
- Description of Certificates

VQP Committee



2018 VQP Significant Contributors



John, KX4O, provides the
VQP spotting network.
<http://www.qsoparty.com/>

Start | 3860.00 LSB Manu... | QSO Party and ... | 4:23 PM

File Edit View History Bookmarks Tools Help

K4NVA Welcome Page x http://www.qsl...es&Cities.html x QSO Party and Operating Ev... x +

www.qsoparty.com

QSO Party and Operating Events DX Cluster

A standalone DX Cluster for use of QSO Parties and Operating Events

DXSpider Telnet Access spots.qsoparty.com port 7300
Suggest put county/city abbr in comments
Ex. dx kx4o/m FAU optional text
Locate mobile stations: [VaQP APRS Mobile Tracker](#)

Enter Web Spots [Here](#) - Account Required
[Create or Update Account](#)

freq	call	time	age	comments	spotter
7225	KW4VA	2017Z	5 min ago	LSB	<AJ4LN>
146520	KN4GDQ/M	2017Z	5 min ago	PRW	<KX4O>
446000	KN4GDQ/M	2016Z	6 min ago	PRW Fresh meat.	<KX4O>
7243	VA3QWW	2014Z	8 min ago	LSB	<AJ4LN>
3805	KE4WLL	2008Z	14 min ago	LSB	<AJ4LN>
3825	K2SDS	2008Z	14 min ago	LSB	<AJ4LN>
3810	NU3K	2008Z	14 min ago	VA QSO Party PA LSB	<N4PD>
3832	WV8SM	2007Z	15 min ago	LSB	<AJ4LN>
3844	K3CCR	2007Z	15 min ago	LSB	<AJ4LN>
3861	W4GO/M	2007Z	15 min ago	PBX LSB	<KX4KU>
3856	KW4VA	2007Z	15 min ago	LSB	<AJ4LN>
Announcement		2004Z	17 min ago	N3BA/M is probably in noise... knowing A	<KX4O>
3865	NB3A/M	2003Z	19 min ago	ARL Arlington, but very weak.	<KX4O>
3861	W4GO/M	1957Z	25 min ago	Moved to PBX	<KX4O>
3828	W4COV	1954Z	28 min ago	CVX - Sorry for previous error	<KX4O>
3865	NB3A/M	1952Z	30 min ago	ARL	<KJ4EOO>
3820	AE4TH	1952Z	30 min ago	HAX	<AA2FD>
3828	W4COV	1952Z	30 min ago	COV Covington	<KX4O>
3865	NB3A/M	1949Z	33 min ago	ALX Alexandria	<KX4O>
3861	W4GO/M	1944Z	38 min ago	PRG	<N4RP>
146580	KK4UYX/M	1943Z	39 min ago	CLA	<KX4O>
3860	K4G/M	1942Z	40 min ago	RAP	<N4RP>
Announcement		1938Z	43 min ago	222, the band that time forgot.	<KX4O>
7246	K7CS	1938Z	44 min ago	IL	<N4RP>
146580	K4G/M	1932Z	50 min ago	RAP	<KX4O>
3861	W4GO/M	1928Z	53 min ago	HOV 15 MINS NYC CNTY	<KJ4EOO>

2018 VQP Significant Contributors



Start | 3860.00 LSB Manu... | VaQP 2018 APR... | 4:25 PM

File Edit View History Bookmarks Tools Help

K4NVA Welcome Page x http://www.qsl...es&Cities.html x QSO Party and Operating Ev... x VaQP 2018 APRS Mobile Trac... x +

www.k1ra.us/vaqp-aprs/

VaQP 2018 APRS Mobile Tracker

Currently tracking VaQP APRS Mobile stations in Virginia
 K0STP-5, K1RA, KD4MAX, KD4QIT-9, KE4YKQ, KG3V-10, KG4NXT-5, KG4UPR, KI4FW-7, KI4ZKJ-10(K4G), KJ4ADN-9, KJ4OAP-7, KK4ZUU-9, KN4IWV, NB3A

Object markers update every 30 sec. and are removed after 60 mins. of GPS inactivity
 VaQP mobiles please e-mail k1ra@k1ra.us with APRS call sign to be included in VaQP contest weekend tracking

Zoom in and click on a call marker for additional info. Click on any colored county for it's name and VaQP abbreviation in the right pane.
 Click [Full Screen Map](#) view for a PC browser or [Smart Phone Map](#) for map only views. [Click here](#) for more info.

Map Satellite 70 76 81 85 89 95 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

70-25-05 GMT - If you hear/work a VaQP mobile please post their call, freq and county/city on the VaQP Spotting Network!



Andy, K1RA, operates the VaQP APRS Mobile County Tracker (<https://k1ra.us/2019/03/08/vaqp-2019-aprs-mobile-tracker/>) APRS w/ GPS with on 2m on 144.390 MHz or smartphone apps such as APRSDroid.

2018 VQP Significant Contributors



Mike, N4CF, generates a call history file from the largest logs submitted last year.
<<http://n4cf.mdodd.com/vaqpch.html>>

!!Order!!, Call, Exch1

LY2JJ, LY

RT5G, UA

RA6CA, UA

K1RZ, MD

KK4ZUU, FFX

W4VIG, FRE

OG2W, OH

VE1OP, NS

R5AJ, UA

N4RP, FAU

W4VA, FAU # ALT --> W4VA 1

K2PI, FAU

W4GO, FAU

NP2P, KP2

OH6NC, OH

K4NDN, RHM

W4AKO, FAU

W1DWA, MA

KD4SV, FAU

KV4XZ, CUL

W8BT, FAU

KK4RUR, FAU

Again in
2019

2018 VQP Significant Contributors



K3CCR soapbox: “Our hearty thanks to 3 high-energy mobile ops; W4GO/M ... KJ4OAP/M ... and NB3A/M. Thanks to other /M’s also, but those 3 stood out.”

W4GO/M 1264 QSOs
37 C&IC on 40/80M

NB3A/M 400 QSOs
22 C&IC on 70cm/2/40/80M



KJ4OAP/M 582 QSOs
39 C&IC on 40/80M

Announced Operations

Please submit your operation



KD4MAX



Top of Spy Rock
With Boy Scout Troop 55

We tried this in 2018 and will try again in 2019.

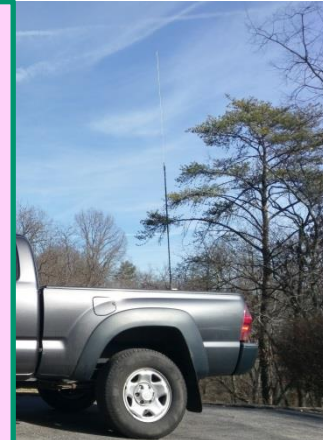
Need to get move coverage in most counties/cities.



KI4FW:

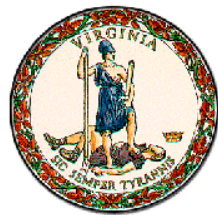
“Rick’s *Independent City Rambler*”.

Planned Route: ALX, ARL, FCX,
FFX, FXX, MPX, MAX, PRW, FBX.
20M & 40M CW.



Kevin, KJ4OAP
Mobile Operation

SAX, ROX, ROA, FRA, HRY, MVX, PIT,
DAX, HAL, MEC, LUN, NOT, PRE,
CUM, BHM, APP, CAM, LYX, BED,
AMH, RBR, BVX, LEX, MON, RAX,
PUL, WYT, CRL, GAX, GRA, SMY,
WAS, BRX, SCO, LEE, WIS, NRX, DIC,
RUS, BCH, TAZ, BLA, GIL



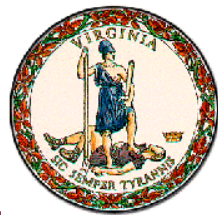
Virginia QSO Party

2019 Rules

There are no rule changes for the 2019 Virginia QSO Party



2019 Rules Objective and Dates



To promote amateur radio activity in the
95 VA Counties and
38 VA Independent Cities.

Sat 16 Mar 1400 UTC – Sun 17 Mar 0400 UTC
(Saturday, 10 AM – 12 Midnight local)
Sun 17 Mar 1200 UTC – 2400 UTC
(Sunday, 8 AM – 8 PM local)



2019 Rules Entry Categories



OP Categories

Single OP
Multi OP / Single Trans
Multi OP / Multi Trans

Power Categories

High (> 150 w)
Low (150 w or less)
QRP (5 w or less)

Mode Categories

Phone (SSB/FM)
CW
Digital (RTTY/PSK)
Mixed

Station Categories

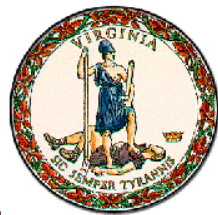
Fixed Station
Mobile
Expedition

Band Categories

Multi-Band
Single Band

Club Entry

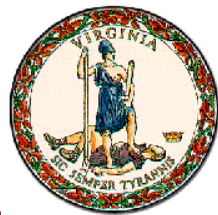
2019 Rules Valid Contacts



- VA stations work all stations.
- Out-of-State stations work VA stations only.
- Work fixed stations once per band/mode.
- Work VA Mobiles and Expeditions in each VA County or Independent City from which they operate.
- Stations on County or Independent City lines count as one QSO and only one County/Independent City multiplier.
- Mobile and Expedition stations use suffix in callsign.
- Satellite contacts allowed.
- No cross-mode or repeater QSO's.
- Spotting nets, DX clusters, etc., may be used to locate other stations - no self-spotting permitted.
- Logs with a significant number of QSOs with the same station will be categorized as check logs.

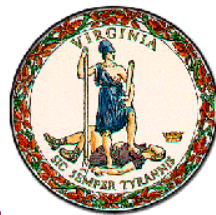


2019 Rules Exchange



- QSO number and QTH
 - VA County or Independent City for VA stations
 - State, Province or DX Country for others
- VA Mobile and Expedition Stations log QSO's by VA Independent City or County of operation.
- Identify all QSO's with band, mode, sequential QSO number sent/received and date/time of contact in UTC.
- Please follow standard contest practices by making and responding to "CQ VA QSO Party" calls.
- Multiple Transmitter stations may maintain sequential QSO numbers independently for each transmitter.

2019 Rules Scoring



- QSO Points
 - Phone 1 pt
 - CW 2 pts
 - Digital 2 pts
 - VA Mobile 3 pts
- Multipliers
 - Multipliers are only counted once. VA Station multipliers are
 - VA counties and independent cities (133)
 - US States (49)
 - Canadian Provinces and Territories (13)
 - DX Countries
 - No DX multiplier for US (including AK, HI), VA and Canada
 - Mobile / Expedition stations that contact 10 or more different stations while operating from a county or independent city may claim it as a multiplier, if not otherwise worked.
 - Outside of VA station
 - VA Counties and Independent Cities



2019 Rules Scoring



- Bonus Points

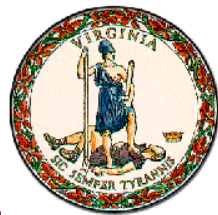
- VA Mobile and Expedition stations: 100 points for each VA County/Independent City from which they log a valid QSO.
- No bonus stations.

- Final score

QSO Points X Multipliers + Bonus Points



2019 Rules Entries



- Fixed, Expedition, and Mobile operations will be considered separately.
 - Please submit separate logs.
- Multiple OP stations should indicate all OPs by name / call sign.
- **Electronic (preferred)** or paper logs, summary and dupe sheets (200 or more QSO's) are required for all entries.
 - The summary and 'dupe sheet' requirements are waived if recognized contesting software is used.
- For Club Competition purposes, be sure to indicate club name on summary sheet and log.
- Submit entries by 15 April by mail to the VA QSO Party, Call Box 599, Sterling, VA 20167 or by email to vqp@verizon.net.
- A donation to help defray the costs of printing and mailing is encouraged.



2019 Rules Awards



- All participants submitting a log will receive a certificate.
- Plaques are identified on the contest web site.

FT8 digital entries started in 2018

VQP data exchange was problematic.

FT8 default is signal strength and grid

VQP requires serial number and QTH

Some FT8 stations in VA did SN and QTH.

What do other parties do?

ARRL: Field Day “required contest exchanges”

Nebraska: Allows FT8 with default data.

For 2019, VQP will require the stated contest exchange, i.e., require SN and QTH.

2019 VQP Plaques and Sponsors (1 of 2)

26
plaques



Plaque	Sponsor
Plaques for only to Virginia Stations	
Virginia Single Operator High Power	North Shenandoah DX Association
Virginia Single Operator Low Power	Don Sambol, K7CS
Virginia Single Operator Phone High Power	Shenandoah Valley ARC
Virginia Single Operator Phone Low Power	Morgan Phenix, K4RHD
Virginia Single Operator Phone/Mixed QRP	Alexandria Radio Club
Virginia Single Operator CW High Power	Loudoun Amateur Radio Group
Virginia Single Operator CW Low Power	Loudoun Amateur Radio Group
Virginia Single Operator CW QRP	Roanoke Valley ARC
Virginia Mobile Multiple Operator	Jeff Fuller, WB6UIE
Virginia Mobile Single Operator	Middle Peninsula Amateur Radio Club
Virginia Expedition	Dwayne Ayers, N4MIO; Steve Wedge, W1ES; Doug Fleming, KF4VTT; and Garner Fleming, KK4CLY
Virginia Club Combined Score	Vienna Wireless Society
Virginia Club - Virginia QSOs Only	www.hamradio.me
Multiple Operator Single Transmitter	Andy Zwirko K1RA / KW4VA
Multiple Operator Multiple Transmitter	Directive Systems and Engineering



2019 VQP Plaques and Sponsors (2 of 2)



Plaque	Sponsor
Plaques for any Single Operator Station	
Single Operator VHF Only	Richmond Amateur Telecommunications Society
Single Operator Novice/Tech/Rookie	Richmond Amateur Radio Club
Single Band	Vienna Wireless Society
Single Operator Virginia Counties/Independent Cities Contacted	Tom Zeltwanger, KG3V
Single Operator Virginia QSOs Only	www.hamradio.me
Single Operator Digital Mode	John Heartney, KG4NXT
Single Operator Youth	K4AMG Memorial ARC
Plaques for stations Outside of VA	
Outside Virginia Single Operator	Alexandria Radio Club
Outside Virginia Phone/Mixed QRP	David Collins, N4WDC
Outside Virginia Single Operator CW QRP	Rappahannock Amateur Radio Association
DX Station	North Shenandoah DX Association

Single Operator Young Adult category has been deleted
due to lack of participation.

2018 Plaque Competition Counts



Plaque	2017	2018
Single Operator Young Adult	1	1
Virginia Expedition	2	3
Single Operator Digital Mode	2	3
DX Station		3
Virginia Mobile Multiple Operator	0	4
Single Operator Youth		7
Multiple Operator Multiple Transmitter	6	8
Outside Virginia Single Operator CW QRP	3	10
Multiple Operator Single Transmitter	7	11
Outside Virginia Phone/Mixed QRP		12
Virginia Single Operator Phone/Mixed QRP		13
Virginia Single Operator CW High Power		13
Virginia Single Operator CW QRP	3	14
Single Operator VHF Only		18
Single Operator Novice/Tech/Rookie		22
Virginia Single Operator Phone High Power		28
Virginia Mobile Single Operator		35
Virginia Single Operator CW Low Power		47
Virginia Single Operator High Power		79
Single Band		110
Virginia Single Operator Phone Low Power		143
Outside Virginia Single Operator		167
Virginia Single Operator Low Power		266
Single Operator Virginia Counties/Independent Cities Contacted		390
Single Operator Virginia QSOs Only		390

Deleted for 2019

**Some
plaques
need more
competition!**

2018 Pre-Party Presentations



Russell County Amateur Radio Club, 7 September 2017



Vienna Wireless Society, 13 October 2017

201

Shenandoah Valley ARC, 1 February 2018

A large group of people, mostly men, are seated at long tables in a room, attending a meeting or presentation. Two men stand at the front of the room, one on the left and one on the right. The room has a white wall and a large door in the background. The people are dressed in casual to business-casual attire. Some are wearing name tags. The room appears to be a community hall or a meeting room. The overall atmosphere is professional and organized. The text "Ole Virginia Hams, 20 February 2018" is overlaid on the bottom right of the image.

Ole Virginia Hams, 20 February 2018

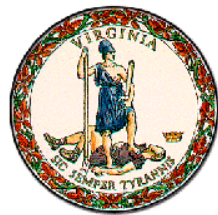
2018 Pre-Party Presentations



2018 Scoring Party



No scoring party held.
Only had 17 paper logs.



2018 Virginia QSO Party

Log Metadata Analysis and QSO Analysis

Log MetaData

Year	No. of logs
2018	409
2017	399
2016	413
2015	375
2014	379
2013	386
2012	356
2011	358
2010	341
2009	364
2008	336
2007	353
2006	279
2005	170
2004	138
2003	142
2002	124
2001	110

Over 400 logs.

Slight increase
from last year.



Log MetaData



Mostly Amateur Extras.

Not many Technician licenses.

License Class	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Extra	103	170	229	210	224	213	214	236	253	252	252	282	271	289
Advanced	8	17	12	11	9	10	10	14	13	14	15	12	10	9
General	32	47	71	67	81	70	83	67	75	67	71	78	83	71
Tech	11	20	5	11	16	14	10	6	12	5	10	9	8	8
Club	4	4	11	13	11	10	6	18	12	13	16	16	11	13
Other	11	21	23	24	23	24	35	15	21	28	11	16	16	19
Total											375	413	399	409

Advanced licenses slowly going away.

Log MetaData

Score	2005	2006	2007	2008	2009	2010	2011	2012	2013
High	803,540	523,382	934,990	944,597	1,097,159	1,178,532	608,100	402,774	843,300
Average	17,287	17,235	16,975	18,483	18,669	21,910	24,099	16,400	20,772
Median	2,964	3,990	2,109	2,515	2,570	2,976	4,300	3,329	3,330
Low	1	1	0	1	1	2	1 (6x)	1 (2x)	0

Score	2014	2015	2016	2017	2018
High	1,129,640	926,172	971,861	600,180	1,025,376
Average	20,854	17,513	17,179	12,290	1,500
Median	3,564	3,608	2,678	1,704	15,466
Low	0	1 (4x)	1 (x11)	0 1 (x8)	0 1 (x8)

High is KW4VA (multi-multi)
with 10 operators.

“0” was missing SN’s.

Log MetaData

Distribution between modes is about same.

But, increase in CW

Mode	05	06	07	08	09	10	11	12	13	14	15	16	17	18
CW	22	39	43	54	66	41	52	45	50	55	47	60	50	82
Mixed	148	98	117	110	90	88	96	105	108	124	140	138	129	133
Phone	0	140	187	169	204	208	205	204	226	198	185	211	218	191
DG	0	2	6	3	4	4	5	2	2	2	3	4	2	3

Effectively no Digital logs

Log MetaData



Most hams use low power.

Power	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Hi-Low	155	260	330											
High				73	80	66	73	63	67	63	51	75	68	92
Low				238	263	248	256	272	287	285	285	308	311	290
QRP	15	19	23	25	21	25	29	21	32	31	39	30	20	27

Expeditions dropped to almost nothing.

Station	05	06	07	08	09	10	11	12	13	14	15	16	17	
Fixed	145	220	310	291	311	295	312	308	318	346	320	369	370	362
Mobile	24	55	39	37	47	43	39	40	45	30	39	41	26	39
Expedition	1	4	4	8	6	3	7	6	5	3	16	2	2	3
Checklog								1				1	1	5

Log MetaData



# Ops	06	07	08	09	10	11	12	13	14	15	16	17	18	
1	263	333	315	350	318	337	339	374	369	359	395	386	390	
2	8	7	15	6	9	6	5	6	3	6	8	6	12	
3		4	2	3	4	4	3	2	2	4	5	2	1	W4KKN
4	5	4	1	1	2	3	2	1	2	3	2	2	1	W4CA
5	1	1				1	1		1	1		1	1	K4VIG
6		1		1	1	2	1				1			
7					1	1		2		1	1		2	W4VA K0OO
8	2		1		2		1		1	1	1	2	1	W4COV
9		1	1	1			3		1					
10			1			1		1					1	KW4VA
11						2								
13		1		2		1	1							
15					2									
Total	16	19	21	14	21	21	17	12	10	16	18	12		

Log MetaData



80M and 40M becomes popular.

Most chase propagation to get QSOs.

Band	05	06	07	08	09	10	11	12	13	14	15	16	17	18
All	133	201	266	265	273	260	284	272	272	279	266	304	321	290
SB(160M)							1							
SB(80M)	3	6	20	13	16	9	4	2	4	1	2	3	5	26
SB(40M)	11	13	27	21	27	38	37	58	79	73	69	64	39	53
SB(20M)	4	11	16	18	18	11	13	13	10	9	12	12		21
SB(15M)	1									1	2			
SB(10M)	1			2			1		2	1		1		
SB(6M)	0	1	1											
SB(2M)	2	24	9		20	15	12	10	10	12	15	23	10	10
SB (1.25M)					1		1							
SB (70 cm)								1						
VHF Only	15	23	14	4	9	6	5	10	9	3	9	6	7	9

Log QTHs

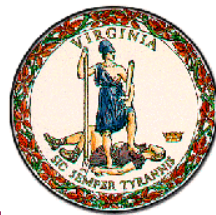


	05	06	07	08	09	10	11	12	13	14	15	16	17	18
VA	110	182	210	208	227	239	250	240	257	243	259	264	249	205
Not VA	60	97	143	128	137	102	108	116	129	136				
Other US											107	133	135	190
Canada											6	11	8	11
DX											3	5	7	3
Total	170	279	353	336	364	341	358	356	386	379	375	413	399	409

Out of State logs continue to increase.

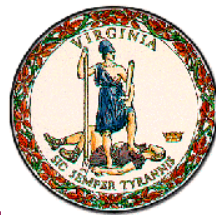
Log QTHs DX

Only 3 DX Logs
Bad propagation??



DX QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Argentina			1											
Azores				1										
Columbia							1						1	
Curacao							2							
Czeck Rep	1		1	1		1		1	1	1	1			
England						1	1						1	
Finland												1	2	
France										2				
Germany	1	1		2	1	1	1		1	1	1	1	1	1
Hungary	1				1	1								
Ireland										1				
Italy		1		1									1	1
Jamaica							1							
Japan				1				1						
Lithuania					1	1	1			1	1			
Netherlands	1	1	1	1	1	1	1							
Paraguay					1									
Poland					2	1	2	1	2	1			1	
Portugal		1	1	1	1	1								
Russia												1		
Slovak Republic										1				
Spain			1									1		1
Sweden						2				3		1		
Ukraine			1		1									
West Indies								1						

Logs from US and Canada (1 of 2)



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
AB														1
AL	1	3	1	3	2	3	2	2	1	2				1
AZ			2	3	5	1	1	4	3	1		2	1	2
AR		1				1				1		1	1	2
BC	1	2	1	4	1									1
CA	1	3	7	1	3	2	3	3	2	1	6	4	6	8
CO		2	2				1		1		1	1	1	1
CT			1		2	1			4	1	2	2	2	
DE		1	1		1	2		2	1	1	1	1	1	
FL	3	7	6	7	8	5	9	9	7	7	9	4	7	4
GA	2	6	4	4	3	3		1	4	2	2	3	7	7
IA	1		1	1					1	1				2
ID				1					1	1	1	2	1	1
IL	1	3	2	4	4	5	3	2	2	5	2	5	8	9
IN	1	4	3	2	2	1	1	3	1	2	1	1		1
KS		2	3	1	2	4	2	4	2	1	1		2	3
KY	1	2	2	2	3	1	1	1	1			4	7	5
LA	1	1		1	1	1		2			2		1	
MA												9		5

QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
MDC	3	4	3	3	3	2	2	4	6	6	7	9	4	5
ME			2	1	1			1		1				2
MI	6	3	5	2	6	2	1	4	4	2	3	1	3	7
MN	2	1		3	3	2	2	1	1	4	2	4	2	2
MO	1	1	1	2	1	2	5	4	3	7	3	6	5	7
MS	1	1		2	2		1				1	1		1
MT	1	1	1	1						1		1		1
NB			1					1	1					
NC	2	3	4	4	5	8	7	2	8	12	8	5	6	5
ND										1	1		2	1
NE		3	2	1										
NH	1	1	2	3	2	2	2	2	1	2	1	2	2	3
NJ	4	4	6	5	3		4	6	6	11	9	8	7	6
NM								1	1		1	2	1	
NT				1				1						
NV			1		1	1	1	1						
NY	1	2	7	7	5	3	7	9	6	9	7	5	1	1
OH	1	3	7	6	9	8	7	6	15	6	6	1	7	1

5 or more in GREEN

38 states 5 provinces

Logs from US and Canada (2 of 2)



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
OK		2	1	1					1				2	1
ON	3	5	9	8	5	3	4	7	5	4	5	10	7	7
OR					1	1	1	1	1			1	2	3
PA	4	3	6	10	8	12	15	6	12	7	9	9	9	6
RI		1		1	2	2	2	3				1		
QC	1		3	1	1	1	2	1	1	2	1	1	1	2
SC	1		1	1		2		2	1	1	2	5	4	3
SD			1	3	1						1	1		
SK	1	1	1	3	3			1	1					2
TN	2	6	4	4	7	8	5	5	7	9		13	11	12
TX	2			1	4	3	1	3	2	3	4	8	6	2
UT					1	1							1	1
VT			2	1	2	1				1				3
WA		1		4	4	2	1	2	2		2	2	2	3
WI	2	4	3	3	6	1	3	1	3	1	1	2	4	4
WV	2	5	2	3	1	2	1	1		4	2	2	1	5
WY			1	2							1			

5 or more in GREEN

38 states 5 provinces

Logs from VA (1 of 2)

Logs from 72 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
ACC	1	1				1	3	1		1	1	2	2	1
ALB				2	2	3		4	2	2	2	2	2	1
ALL	1							1	2	1	1	2	1	1
ALX	2	2	1	1	2	2	2	3		2	1	3	2	1
AME														
AMH	1		1		1	2	2			1	1	1	2	
APP								1				1		
ARL	3	4	8	1	4	7	4	4	7	9	8	7	5	4
AUG			1	1	1	1	4	4	5	2	3	5	7	6
BAT	1	1	2	1	1	3		2		1		1	1	2
BCH														
BED	1	2		2	3	1	3	3	5	3	3	1	3	3
BHM							1			1				
BLA														
BOT							1	1	1	2	3	4	1	2
BRU														
BRX								1	1	1	1	1	1	1
BVX														
CAM			1	2		1	3	1	4	3	2	1	1	1
CCY				1	1	1	1		1	1		1		1
CHA														
CHE				3	2	2	3	3	1	2	2	2	1	3
CHX						2	1	2	2	1	1	2	1	2
CLA	2	2	2	2	2	2	3	2	3	4	5	2	2	5
CLN							1	1	1	1	1	2	1	
COX														
CPX	1	3	7	5	3	9	6	6	5	6	8	7	7	4
CRA			1	1	1	1		2	1	1				
CRL		1	1	1	1		1	1		1	1	1	1	1
CUL	2	3	2	3	4	4	3	4	5	3	3	2	6	8
CUM											1		2	
CVX	1	2	2	2	1	1	1	1	1	2	1	1	3	2
DAX														
DIC			1		1		1							

QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
DIN						1	1	1	1		1			
ESS		1		1								1		
Exp	1	4	4	8	6	3	7	6		3	16		2	3
FAU	11	14	15	12	19	18	14	7	10	14	12	15	23	15
FBX	1	1	1	1		1		1	1	2		2	1	
FCX											1			
FFX	12	12	28	15	19	15	23	15	19	22	20	17	18	14
FLO					1	2		1						
FLU		1				1		2	1	2	1	4	3	1
FRA	2	3	3	3	4	2	3	3	4	3	2	3	1	3
FRE	2	3	2	2	3	1	2	7	5	8	5	7	7	9
FRX					1	1	1	1		1		1		
FXX			1		1	1	1	2	2	1				1
GAX														
GIL	1	2	1	2	1	1	2	1	1	2	1	1	2	2
GLO				2				2	1		3	1	3	3
GOO	1	1	2	3	1	1	2	2	1	1		1	1	1
GRA								1						
GRN	1	1	1	1	1	1	1		1	1	1			
GVL														
HAL						1	1							
HAN	2	1	5	2	6	5	5	3	3	2	2			2
HAX				1		2	2						2	2
HBX					1	1	2		1	1			2	1
HCO	2	2	5	2	3	4	3	6	3	1	3	5	1	
HIG														
HOX							1	1	1	1	1	1	1	1
HRV														
IOW	1	1	1	5	6	4	7	4	6	3	3	1	2	3
JAM		3	2	4	3	2	3	3	1	2	4	5	5	3
KGE				1	1	1	1	1	1			1	1	2
KQN								1				1		1
KWM									1					
LAN		1	2	3	1	3	2	1	2	2	4	5	1	2

Logs from VA (2 of 2)

Logs from 72 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
LDN	14	20	15	13	18	22	24	21	22	20	10	16	14	12
LEE					1									
LEX														1
LSA			1	1		2			1	2	2	1	2	2
LUN														
LYX			3	1			1	1	1	1	1	1	1	1
MAD			1	1	1								1	1
MAT					1		1	1	2	1	1	1	2	2
MAX			1							1			1	1
MEC		1										1		
MID				1										
Mobile	24	55	39	37	47	43	39	40	45	30	39	42	25	38
MON	1	1	1	3		2	2	3	2	1	3	2	1	2
MPX									1			1		
MXV			1						1		1		1	
NEL		1	1	1	1			1	1					
NEW			1	1				1	1	1				
NFX			2	1	2	3	2	3	2	2	2	1	1	
NHA														
NNX							1	1	2	3	2	2	2	2
NOT														
NRX					1									
NUM	2	2	2	3	1	3	5	7	9	9	7	6	6	4
ORG					1	2	4	2	4	3	2	3	2	2
PAG	1	2	2	1	1	1	1	1	2	3	3	3		
PAT											1			
PBX														
PIT	2		1		1	3	2							
POW		1	1	2	2	1					1			
POX	1	1		2		1		1	1	1		2		2
PQX														1
PRE														
PRG	1							8						
PRW	2	6	11	7	6	7	4	8	11	8	13	13	16	14

QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18
PUL		1										1		1
RAP									1					
RAX									1		1		1	
RBR									1	1	1		1	2
RHM			1	1	1	1	2	1	2	3	2	2	1	1
RIC	1													
RIX			2		1	1								1
ROA	2	1	4	6	1	2	5	1	1	2	3	3	3	2
ROX						1	1	1		1				
RUS			1		1	1	1			1	1	1	1	1
SAX			1	2	1	2	2	2	1	1		2		1
SCO	1	1	1		1								1	
SHA					1		2							
SHE		1	1	1	1		1	3	3	2	4	3	5	3
SMY		3			1		2	1		1		1	1	1
SPO			2	1	2	2	2	3	2	2	1	3	1	2
STA	2	4	3	5	3	1		1	2		1	2		1
STX							1						1	
SUR					1	1	1	1	1	1	1	1	1	1
SUS							1	1						
SUX						1			2	3	3	2	4	3
TAZ					1							2	1	
VBX		7	6	6	6	4	3	4	6	4	5	9	4	4
WAR	1	1	1	1	1	1	2	2	2	2	2	2	2	2
WAS											1	1	1	2
WAX	1		1	1	1	1	1	1	2	3	1	2	1	1
WES		1	1			1								1
WIS			1	2	3	2	4							
WIX			4	3		1	2	4	3	2	1	2	2	2
WMX	1			1	1	1	1	2	1	2	1			
WYT					1		1			1	1	1	2	1
YOR			2	2	1	1	1	1		1	1	1	1	2

Logging Programs

Logging programs with 4 or more users.

Program	07	08	09	10	11	12	13	14	15	16	17	18
N1MM	39	50	69	75	94	118	121	139	142	153	161	171
N3FJP VA QSO Party	98	113	127	104	118	112	128	117	126	136	136	130
Fat Fingers	38	11	15	24	34	38	20		23	29	29	24
PAPER	81	63	60	46	36	46	48	45	39	48	27	17
WA7BNM Web2Cab												17
WriteLog	23	24	19	15	20	11	6	9	10	8	14	11
GenLog	9	11	10	13	12	7	10	6	7	12	9	10
VA QSO LOGGER	32	12	6	4	8	6	4		3	3	6	4

N1MM and N3FJP remain most popular.

Paper logs are almost gone. Still expect a few in future.

QSO Analysis



Measure	05	06	07	08	09	10	11	12	13	14	15	16	17	18
Contacts (electronic logs only) (i.e. # QSOs x 2	22,300	51,048	76,654	80,756	86,116	92,944	107,422	89,576	101,640	103,598	91,584	99320	79878	83398
Non-Virginia contacts	1/3	1/3	1/3	1/3	1/3	1/3	26%		27%	23%	22%	28%	30%	29%
States Contacted		50	50	50	50	50	50	50	50	50	50	50		48
Provinces Contacted		10	10	14	11	12	12	12	11	12	12	13	10	10
DX Entities	~41	68	112	118		119				4%	1%	2%	2%	2%
C&C Not Activated	17	7	6	2	1	3	5	5	4	3	0	3	2	4
High # QSOs in C&IC	2,789	3,969	5,434	3,166	5,272 FAU	9,178 LDN			12,012 LDN	10,559 LDN	5,024 FAU	7058 FAU	8815 FAU	6919 FAU

QSO Analysis

Missing C&IC by Year



C&IC	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Amelia (AME)						X							
Bristol BRX)		X											
Bland (BLA)							X						
Buchanan (BCH)			X		X		X						
Buckingham (BHM)					X			X					
Charles City (CCY)		X											
Charlotte (CHA)		X											
Colonial Heights (COX)						X			X				
Danville (DAX)	X												
Dickson (DIC)											X		
Emporia (EMX)							X						X
Essex (ESS)					X							X	
Floyd													X
Grayson (GRA)											X		
Greenville													X
Highland (HIG)				X				X					
Hopewell (HOX)	X												
Martinsville (MVX)	X								X				
Northampton (NHA)	X							X				X	
Norton (NRX)		X	X										
Nottoway (NOT)		X				X	X						
Patrick (PAT)											X		
Petersburg (PBX)	X					X	X						
Poquoson (PQX)	X					X							
Richmond (RIX) (city)									X				
Southampton													X
Smyth (SMY)								X					
Tazewell (TAZ)	X												
Wythe (WYT)		X											

Mode QSOs

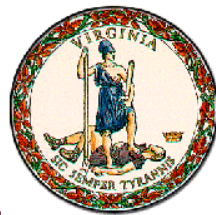


Mode	2010	2011	2012	2013	2014	2015	2016	2017	2018
CW	9,660	13,137	8,553	12,452	12,108	8,392	10,607	8,100	10,518
DG	885	1,308	543	600	274	150	709	183	970
PH	35,927	39,276	35,692	37,768	39,417	37,250	38,334	31,656	30,204
Grand Total	46,472	53,721	44,788	50,820	51,799	45,792	49,660	39,939	41,699

Digital significantly more digital QSOs.

Maybe FT8??.

Band QSOs



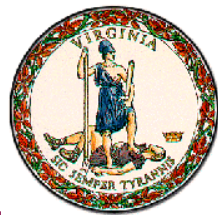
Band	2016	2017	2018
80M	11,008	16,924	22,055
40M	29,319	13,222	12,556
20M	6,074	5,082	4,232
2M	1,565	2,401	1,458
70cm	525	795	821
15M	430	269	189
1.25M	280	331	98
33cm	128		
6M	146	345	77
30M			74
10M	65	271	68
160M	119	294	42
12M			1
17M			1
Grand Total	49,660	39,939	41,669

Continuing shift
from 40M to 80M.

WARC bands not allowed.
FT8 artifact.

QSO Analysis

Contacts in Counties and Independent Cities (1 of 6)



C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Accomack	150	156	37	3	109	710	106	592	13	64	134	325	395	151
Albemarle	7	84	189	586	172	826	1583	727	933	712	1017	899	844	342
Alexandria *	215	145	171	29	316	462	640	447	222	487	334	324	146	221
Alleghany	2	11	120	58	63	53	26	67	57	39	90	63	59	57
Amelia	26	60	1	53	18	1	0	2	70	1	262	5	35	3
Amherst	42	54	582	151	834	426	347	20	9	128	288	234	289	2
Appomattox	0	35	48	39	67	3	18	245	5	1	336	198	71	32
Arlington	344	411	614	158	262	506	1422	1773	1719	1766	1872	1591	1148	1084
Augusta	4	40	532	604	601	827	1062	1324	2145	1104	1789	2511	1808	1520
Bath	85	124	310	944	862	359	13	517	4	1017	15	512	90	333
Bedford	61	539	1208	663	737	584	961	783	2130	1117	1424	560	950	885
Bedford *	24	21	63	49	35	73	62	95	84	n/a	n/a	n/a	n/a	2
Bland	0	4	2	32	4	2	28	0	118	8	64	1	62	29
Botetourt	1	18	49	113	49	62	245	200	414	520	659	511	124	128
Bristol *	0	9	0	5	6	10	63	461	796	781	686	392	670	309
Brunswick	31	46	3	60	23	28	29	2	27	21	35	14	25	7
Buchanan	2	2	1	0	1	0	25	0	203	19	22	40	4	20
Buckingham	74	113	34	62	20	0	845	9	0	197	117	33	63	21
Buena Vista *	1	2	56	71	56	84	12	127	79	2	104	32	218	24
Campbell	4	58	169	129	89	142	577	322	1158	787	615	231	243	133
Caroline	5	24	51	85	35	17	434	356	162	524	387	1036	88	107
Carroll	8	201	144	574	238	87	654	337	196	547	559	424	556	416
Charles City	0	5	0	53	189	194	27	57	199	164	5	14	7	97

GREEN: 5 Loc more than 2,000

QSO Analysis

Contacts in Counties and Independent Cities (2 of 6)



C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Charlotte	20	33	0	69	28	5	7	14	46	2	234	122	22	24
Charlottesville *	1	20	80	59	23	106	186	214	198	139	165	184	79	128
Chesapeake *	15	185	715	433	234	728	1404	1234	1162	865	1419	1736	1036	798
Chesterfield	58	76	193	639	306	132	640	1249	887	773	706	737	159	623
Clarke	127	348	403	645	222	220	316	468	335	343	3638	3702	466	4123
Colonial Heights *	0	3	13	72	2	1	0	2	62	0	287	93	18	82
Covington *	25	86	398	153	132	118	111	86	6	645	521	243	808	930
Craig	1	9	128	106	104	242	89	561	479	519	81	74	25	52
Culpeper	531	1164	1320	2212	2835	2516	2809	2424	2090	2260	2695	1608	1808	2356
Cumberland	86	116	9	45	14	4	35	4	15	6	438	71	1048	29
Danville *	0	0	34	1	115	184	163	50	9	1	104	34	50	31
Dickenson	47	30	242	45	458	156	130	48	243	170	73		35	17
Dinwiddie	26	1	18	53	22	628	200	173	288	129	592	129	42	20
Emporia *	18	37	11	56	22	24	20	0	21	9	152	14	14	0
Essex	0	552	12	166	29	0	45	201	22	138	55	90	0	67
Fairfax	1545	1304	3602	1933	3113	3142	4274	2192	4005	3428	2777	2354	2437	1792
Fairfax *	82	143	415	162	326	146	223	370	491	260	139	217	244	303
Falls Church *	63	90	66	1	78	12	1	142	17	4	227	41	224	128
Fauquier	1550	3936	5434	5272	8804	5970	8476	6269	6528	9013	5025	7058	8815	6919
Floyd	80	124	26	87	308	169	295	230	110	87	121	109	46	0
Fluvanna	42	105	95	87	70	52	62	381	221	860	473	918	1279	453
Franklin	144	844	584	626	579	694	1184	1130	1302	859	1050	720	241	703
Franklin *	15	58	28	84	44	68	230	94	72	55	13	18	11	8

GREEN: 5 Loc more than 2,000

QSO Analysis

Contacts in Counties and Independent Cities (3 of 6)



C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Frederick	86	322	948	149	405	359	615	970	710	1571	923	1259	936	1410
Fredericksburg *	132	881	1222	233	52	676	52	445	814	2163	89	1261	318	165
Galax *	3	1	37	36	47	60	171	20	157	56	127	3	53	38
Giles	222	405	44	392	448	265	626	316	281	458	251	127	70	90
Gloucester	3	7	114	211	81	126	2	256	345	56	665	619	320	863
Goochland	2789	2562	4605	4346	3772	3527	2898	3100	1721	1925	3	1541	1302	457
Grayson	9	11	48	86	8	37	84	26	109	64	36		54	41
Greene	98	305	542	427	456	538	624	493	456	730	731	72	150	135
Greensville	21	29	11	50	20	20	26	9	19	41	225	39	33	0
Halifax	49	26	30	66	18	561	626	54	79	8	195	111	92	48
Hampton *	6	24	47	319	51	546	831	3	29	100	378	80	188	316
Hanover	352	151	1154	840	2063	2085	2071	949	1282	799	887	242	35	678
Harrisonburg *	11	35	18	29	350	303	832	1	155	211	124	46	508	212
Henrico	142	222	1032	1136	652	1348	1510	1480	618	166	687	514	81	142
Henry	1	1	33	108	85	172	297	85	54	1	94	111	51	45
Highland	0	1	84	28	0	8	1	16	0	1	308	3	73	210
Hopewell *	1	0	6	13	18	2	159	139	248	701	467	199	369	451
Isle of Wight	66	124	242	573	988	2258	967	1935	1811	1341	1184	271	384	894
James City	15	610	760	1025	1312	239	857	885	323	360	983	1365	758	423
King & Queen	2	14	6	41	55	25	34	32	168	119	124	674	9	163
King George	24	46	86	44	311	311	991	860	1129	15	145	757	937	759
King William	1	16	3	63	30	3	30	27	66	101	43	45	1	90
Lancaster	0	126	616	891	628	1032	984	602	1098	386	490	432	50	323

GREEN: 5 Loc more than 2,000

QSO Analysis

Contacts in Counties and Independent Cities (4 of 6)



C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Lee	0	1	3	14	65	1	287	24	57	46	33	3	25	25
Lexington *	0	2	58	60	42	69	15	88	15	1	183	1	1	151
Loudoun	1299	3465	3586	4347	8629	9178	####	8463	####	####	3324	5228	3689	4095
Louisa	13	42	712	711	32	196	58	136	139	748	995	1002	610	755
Lunenburg	12	45	9	49	72	1	49	55	90	128	192	73	136	153
Lynchburg *	9	42	786	322	147	53	259	168	643	240	417	129	68	1368
Madison	15	329	61	434	447	259	373	568	561	216	290	177	322	283
Manassas *	111	220	109	101	152	117	249	382	153	84	156	146	590	343
Manassas Park *	56	196	118	76	120	90	302	267	165	141	174	211	604	149
Martinsville *	0	0	60	208	62	40	258	48	442	0	400	137	225	18
Mathews	0	10	52	213	187	62	28	200	305	222	292	630	1120	888
Mecklenburg	38	394	9	59	34	54	55	3	32	45	54	512	61	42
Middlesex	1	13	47	304	186	24	14	16	12	102	19	10	2	131
Montgomery	118	1280	1817	1751	213	1197	613	612	598	1016	345	363	415	824
Nelson	10	111	287	230	275	47	121	157	554	21	268	62	78	59
New Kent	0	12	699	329	31	12	32	161	1056	103	43	21	9	89
Newport News *	11	16	54	27	43	129	691	930	686	892	475	1210	839	550
Norfolk *	5	18	151	151	113	291	162	214	244	249	188	96	11	89
Northampton	3	0	132	15	187	137	1	55	0	5	9	5	0	3
Northumberland	23	140	195	267	145	976	2038	2307	2711	3154	3023	2643	1461	1356
Norton *	1	2	0	0	28	7	25	22	34	57	50	1	49	17
Nottoway	25	61	0	27	28	2	0	0	75	30	212	127	96	65
Orange	9	40	175	124	500	681	284	1186	1501	1165	794	1279	831	745

GREEN: 5 Loc more than 2,000

QSO Analysis

Contacts in Counties and Independent Cities (5 of 6)



C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Page	286	825	1237	910	755	627	839	778	1035	1137	1055	842	327	172
Patrick	107	179	3	384	409	652	707	361	225	2	505		156	16
Petersburg *	25	0	1	70	17	1	0	0	81	26	274	50	23	92
Pittsylvania	200	1	109	92	207	776	1065	63	59	34	165	96	38	114
Poquoson *	7	0	27	10	21	11	0	1	11	12	487	566	7	286
Portsmouth *	38	34	108	146	123	69	31	43	88	98	103	187	46	115
Powhatan	54	1166	2223	1919	1157	1922	15	4	12	25	167	15	3	3
Prince Edward	47	91	20	51	54	3	27	151	209	8	278	80	76	57
Prince George	333	3	19	60	46	25	10	3	76	27	265	81	15	109
Prince William	396	1166	3031	2125	974	2580	2728	2498	1447	1914	3537	2636	2321	3469
Pulaski	7	288	4	30	2	30	42	6	262	93	90	57	45	655
Radford *	4	5	1	21	4	54	51	72	66	22	32	21	164	35
Rappahannock	79	440	274	896	298	491	335	756	649	426	413	133	829	207
Richmond	364	65	23	87	68	7	46	107	4	81	83	129	1	90
Richmond *	19	14	201	36	77	78	169	34	60	0	132	148	4	174
Roanoke	44	93	409	217	144	416	593	634	250	403	366	357	375	161
Roanoke *	10	17	208	225	108	990	801	243	65	91	71	35	30	24
Rockbridge	0	37	76	103	177	125	86	226	278	293	650	7	376	435
Rockingham	19	108	370	562	677	710	1036	798	948	1431	1533	1085	351	196
Russell	0	51	47	34	215	393	98	52	286	180	203	112	98	61
Salem *	3	20	127	499	136	453	75	409	280	312	68	349	64	134
Scott	53	91	77	61	186	59	104	46	206	48	109	9	276	36
Shenandoah	48	200	216	64	36	71	129	653	295	472	520	621	396	503

GREEN: 5 Loc more than 2,000

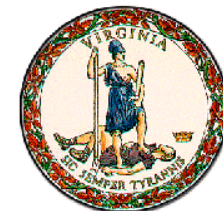
QSO Analysis

Contacts in Counties and Independent Cities (6 of 6)

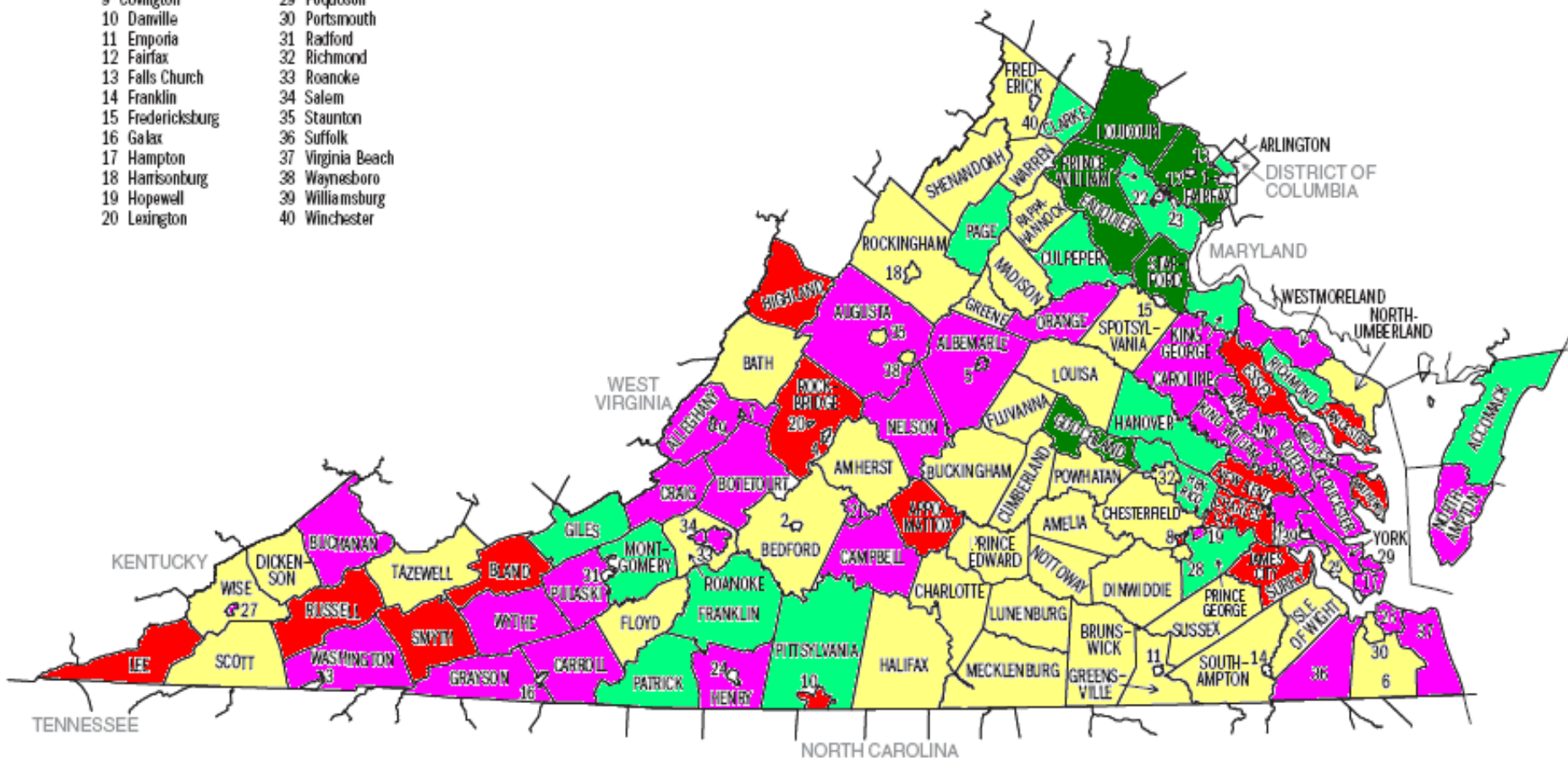


C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Smyth	0	1153	2	9	211	5	428	253	0	434	32	574	260	174
Southampton	14	37	15	65	114	37	817	10	7	26	32	62	20	0
Spotsylvania	20	92	325	199	409	161	397	443	428	506	173	356	107	533
Stafford	1193	1623	1295	1671	1020	131	153	1235	341	100	332	467	56	301
Staunton *	13	35	86	64	58	43	43	22	18	2	152	558	294	7
Suffolk *	1	41	7	44	87	66	37	59	306	154	645	496	344	329
Surry	0	1	1	22	182	205	352	237	202	192	348	57	92	251
Sussex	12	5	6	63	30	43	1020	5	5	8	181	67	3	4
Tazewell	36	0	26	52	489	70	177	16	233	168	114	530	177	27
Virginia Beach *	9	2421	1083	993	1029	1897	360	506	715	236	1330	2216	262	440
Warren	83	357	316	415	205	454	670	832	515	770	484	418	973	561
Washington	3	19	10	10	159	12	116	52	43	199	416	225	127	329
Waynesboro *	38	56	424	266	352	508	390	273	418	1114	533	677	467	361
Westmoreland	6	89	23	25	30	396	31	50	79	106	89	164	1	315
Williamsburg *	1	3	92	134	85	103	76	115	80	595	61	3	3	103
Winchester *	21	89	163	103	9	107	654	1099	661	214	188	237	240	1080
Wise	11	3	144	711	902	1240	1293	40	109	112	102	4	52	32
Wythe	5	3	0	45	175	52	226	20	75	1064	1176	1030	1691	955
York	2	35	368	462	382	169	352	310	59	558	402	641	149	338

GREEN: 5 Loc more than 2,000



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| 2 Bedford | 22 Manassas |
| 3 Bristol | 23 Manassas Park |
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| 5 Charlottesville | 25 Newport News |
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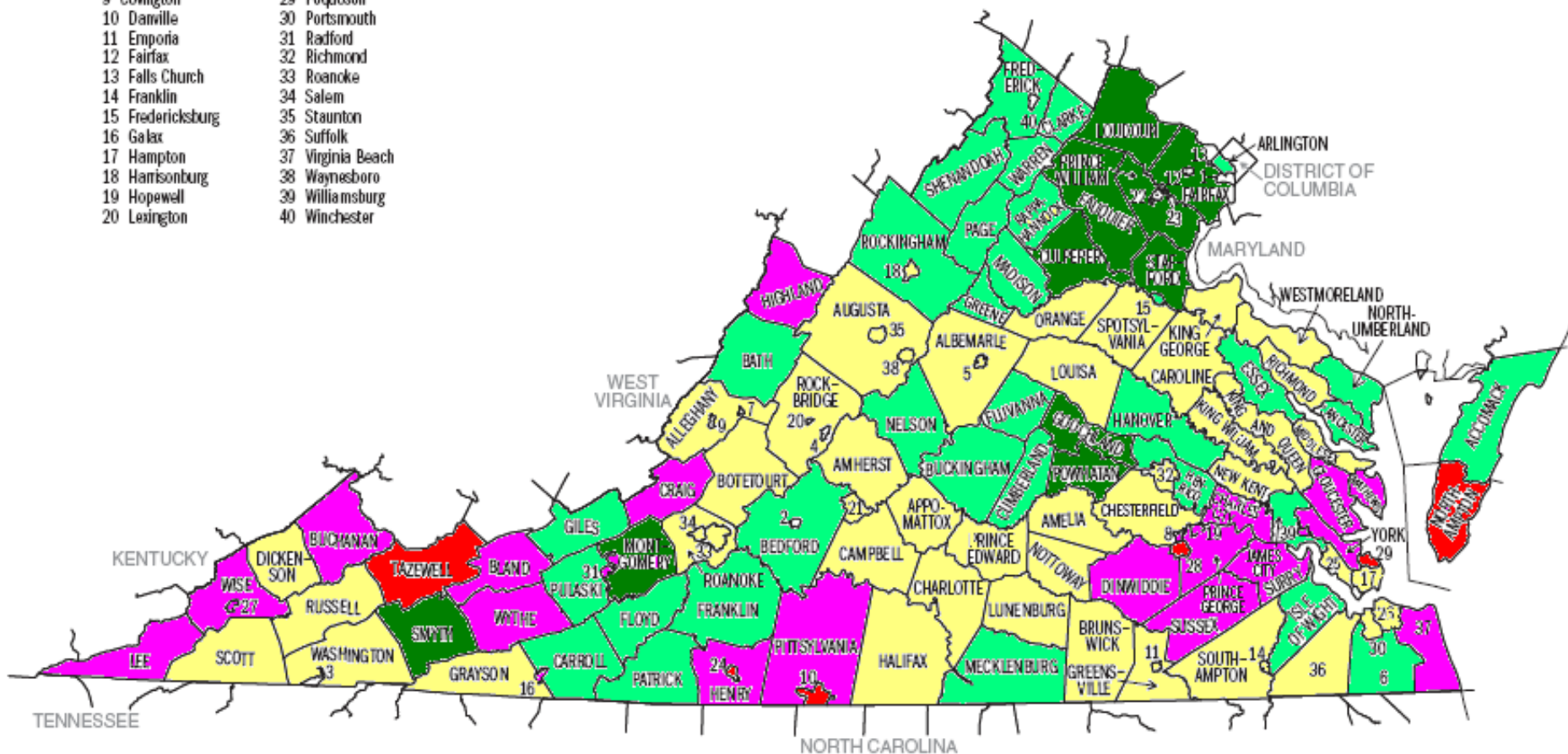
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2006 QSO Contact Analysis

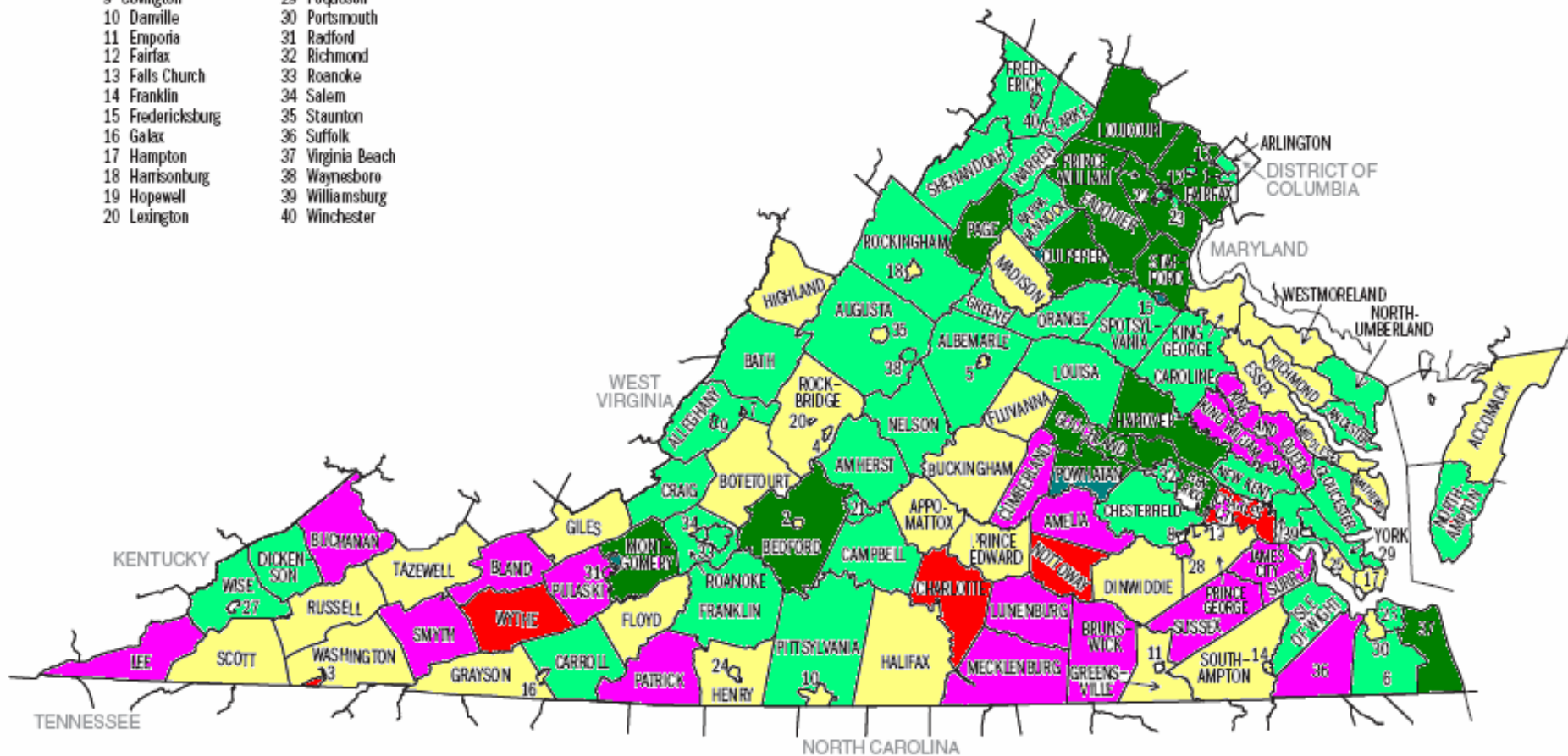


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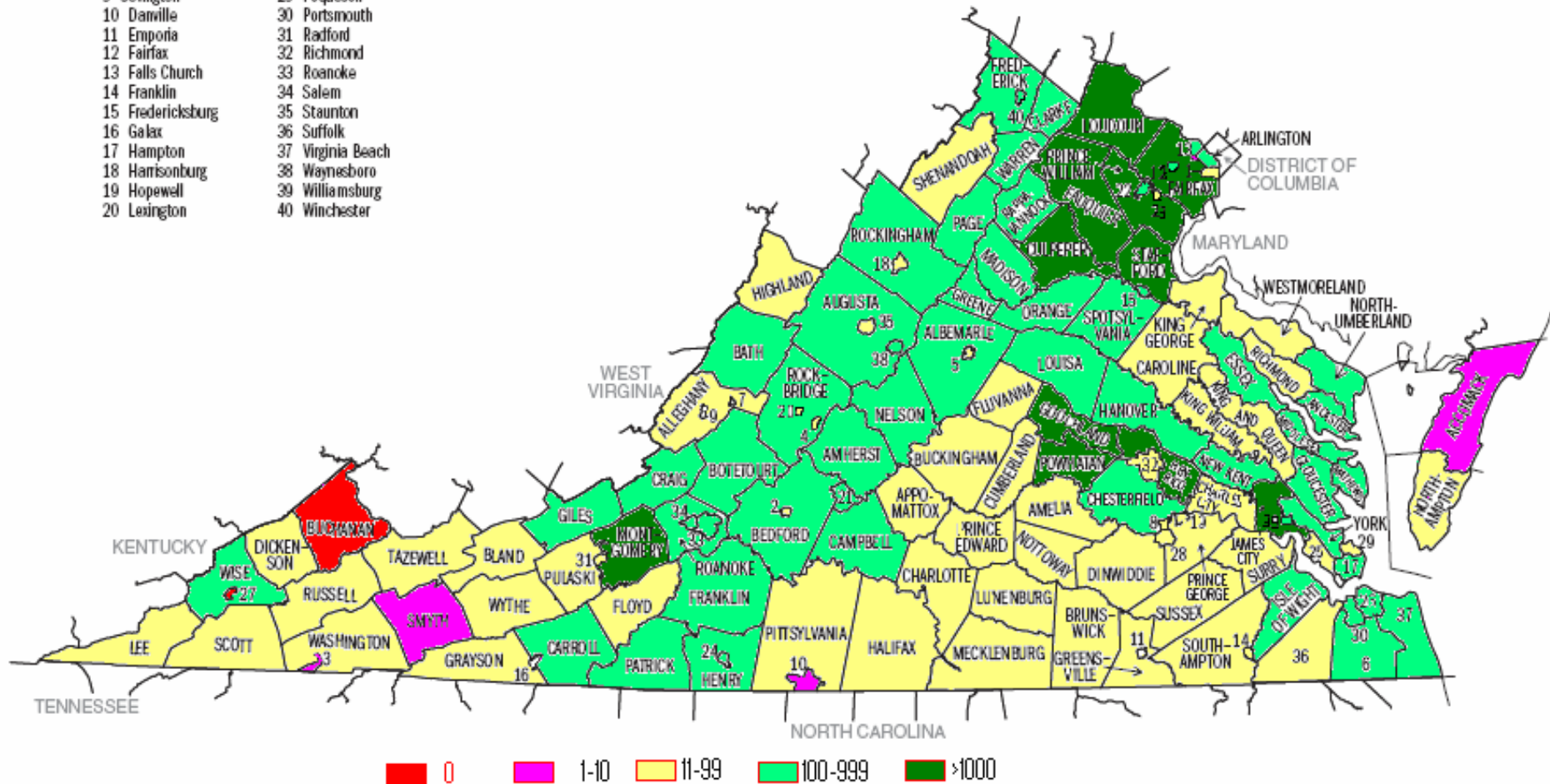
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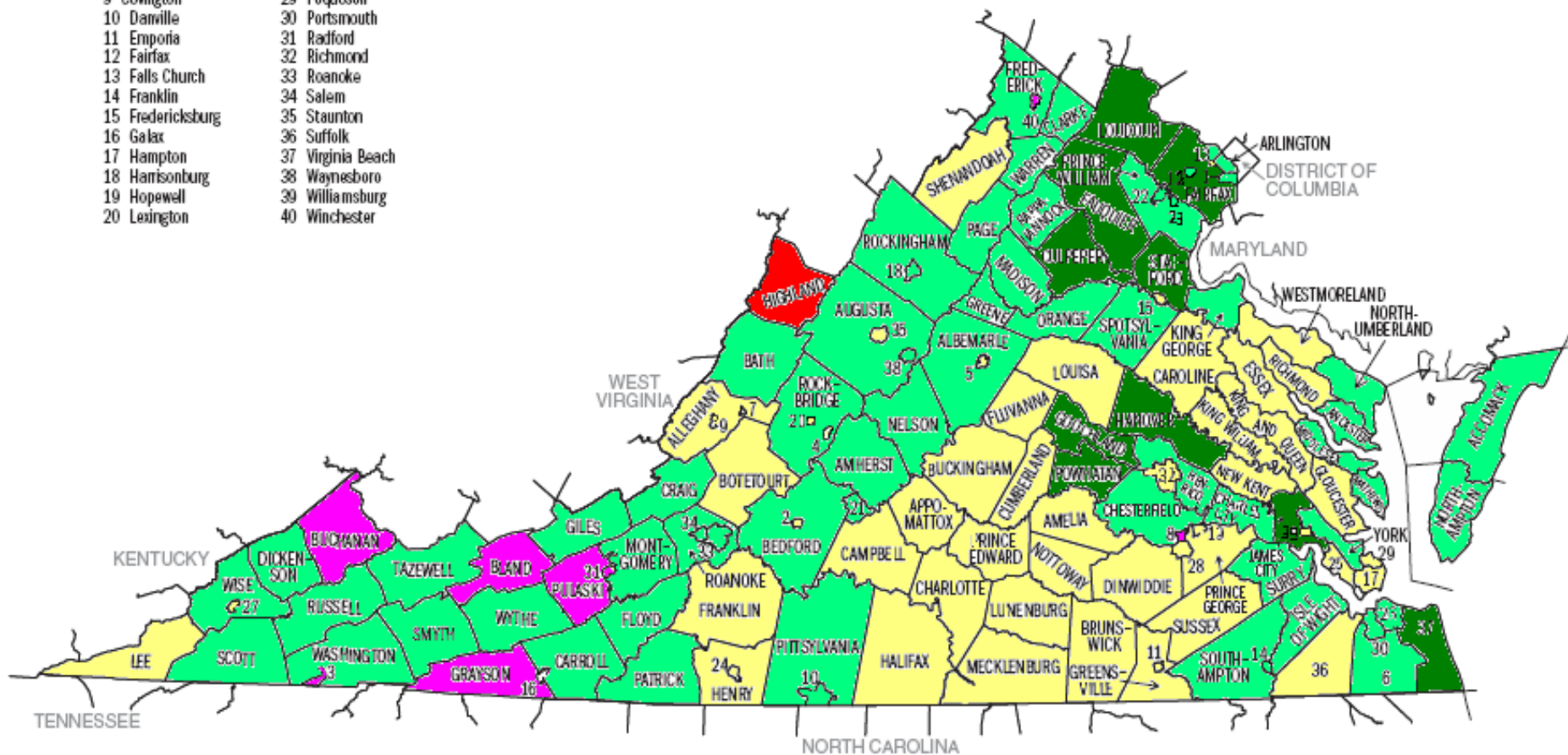
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2009 QSO Contact Analysis

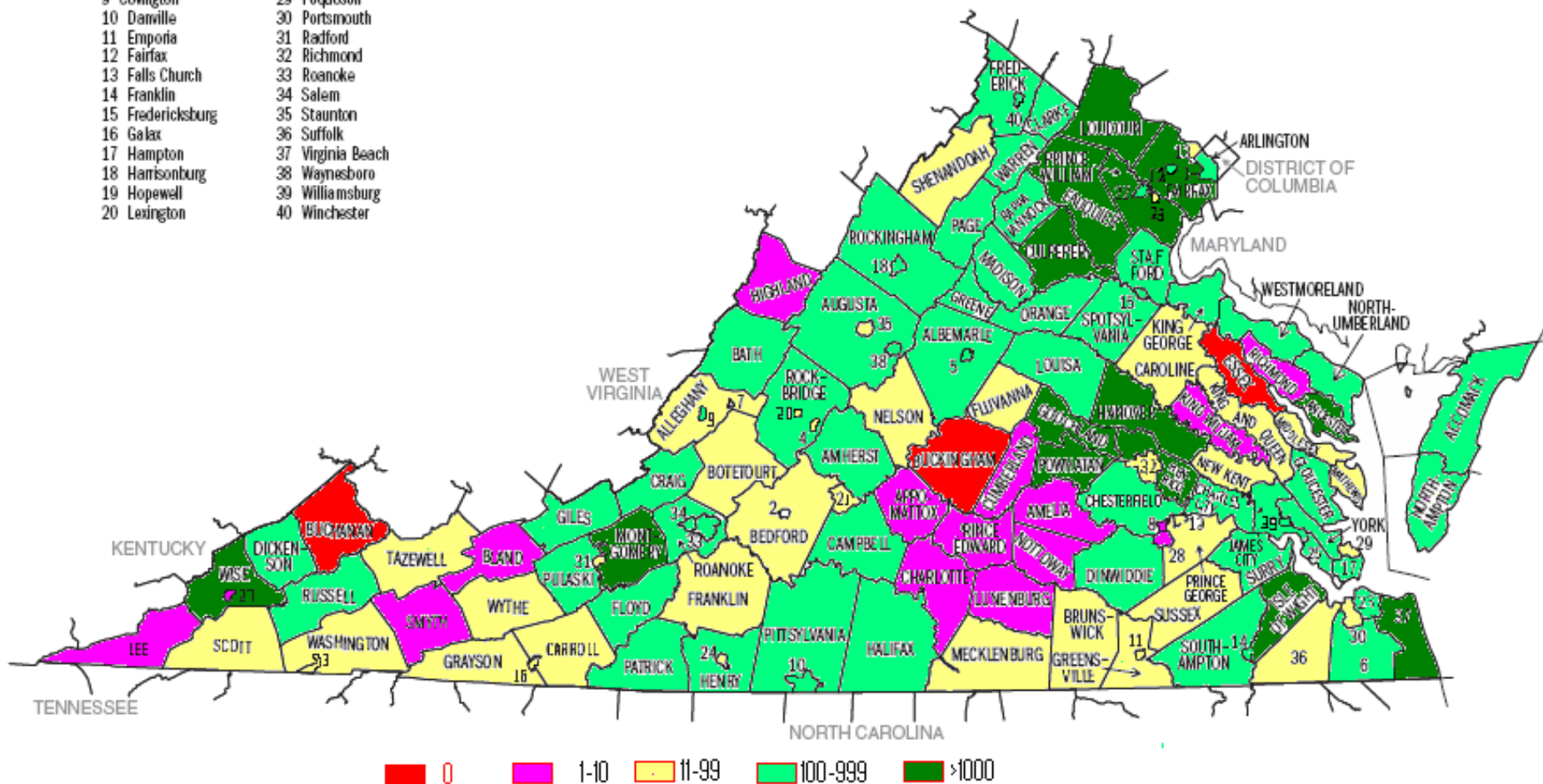


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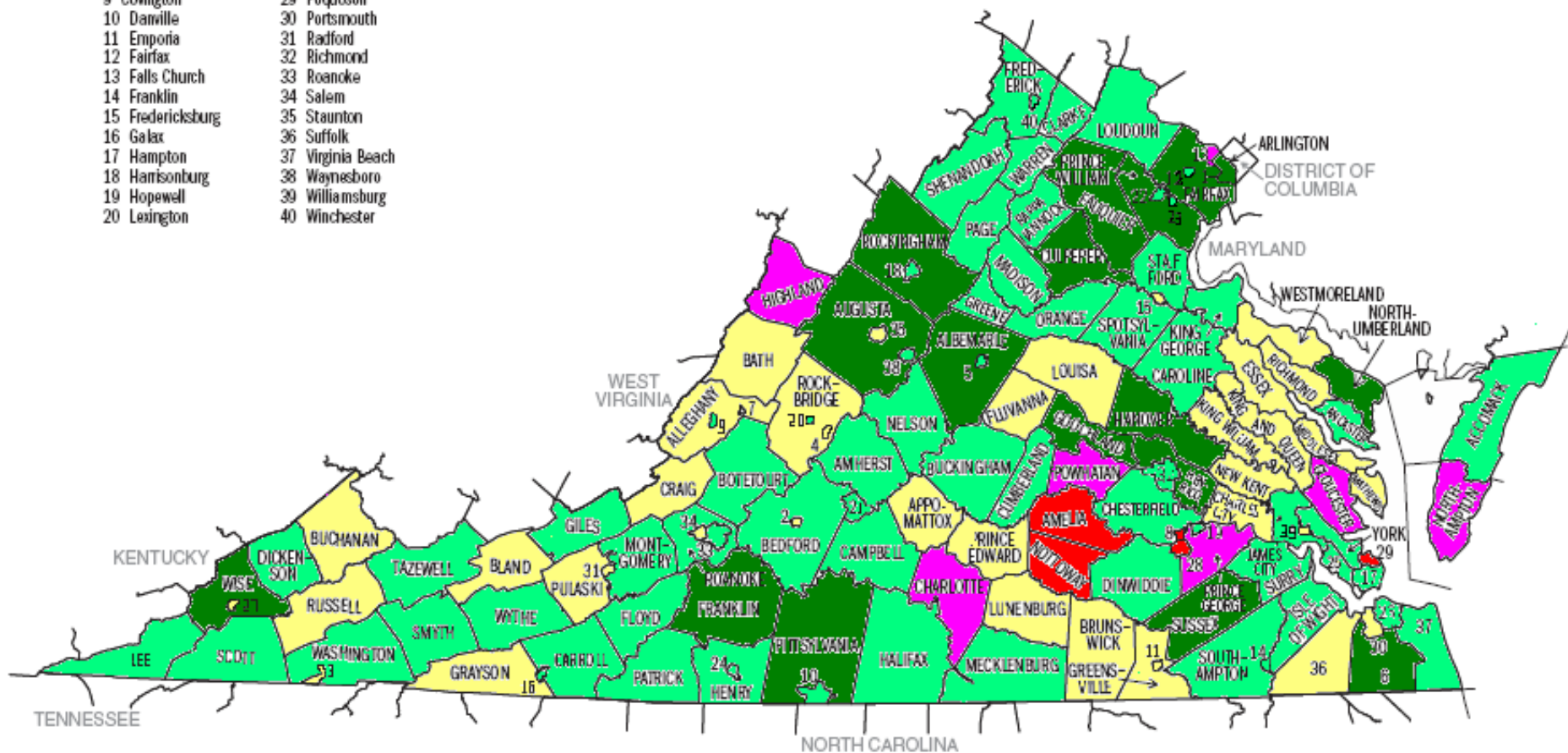
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2011 QSO Contact Analysis

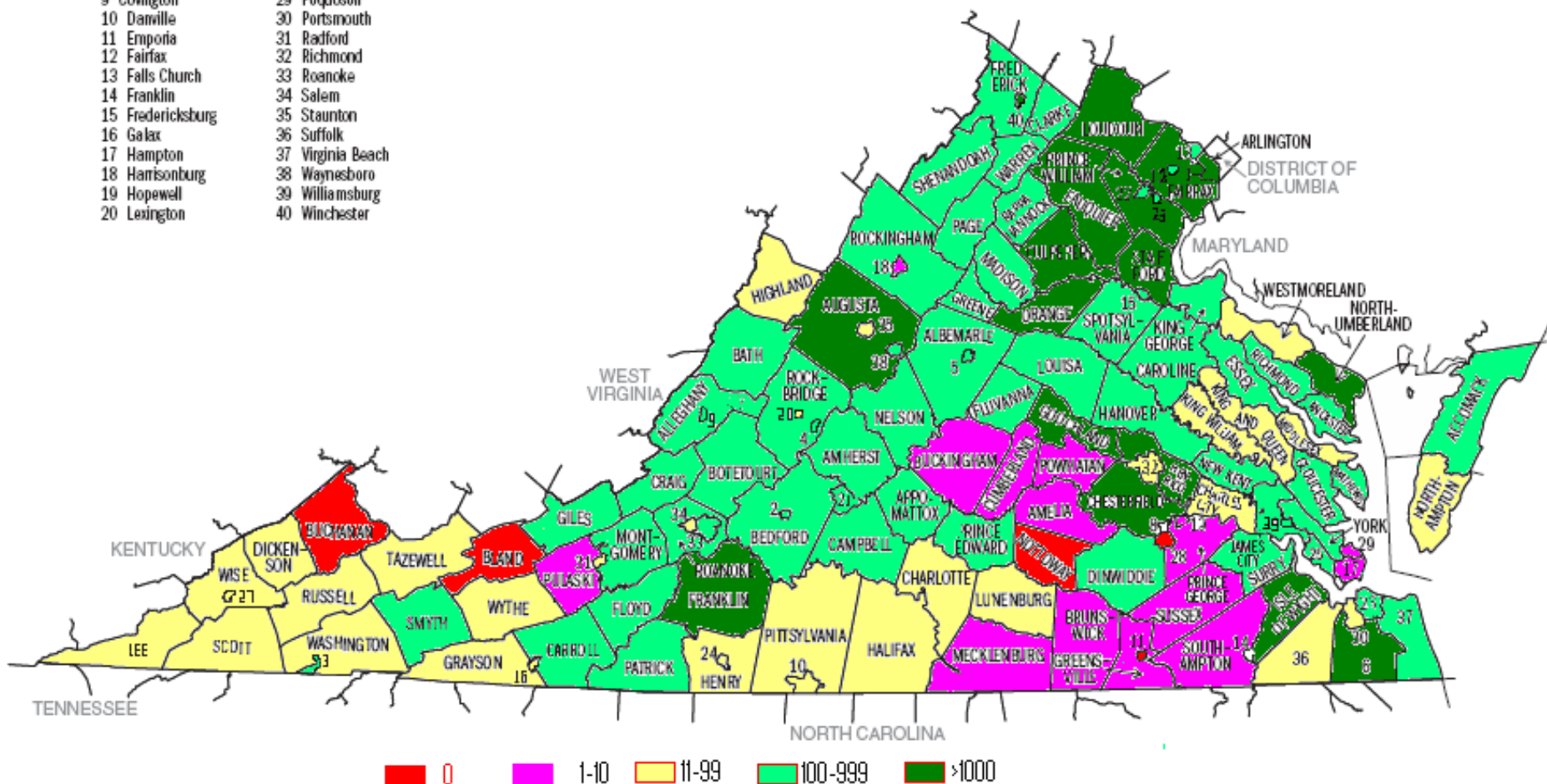


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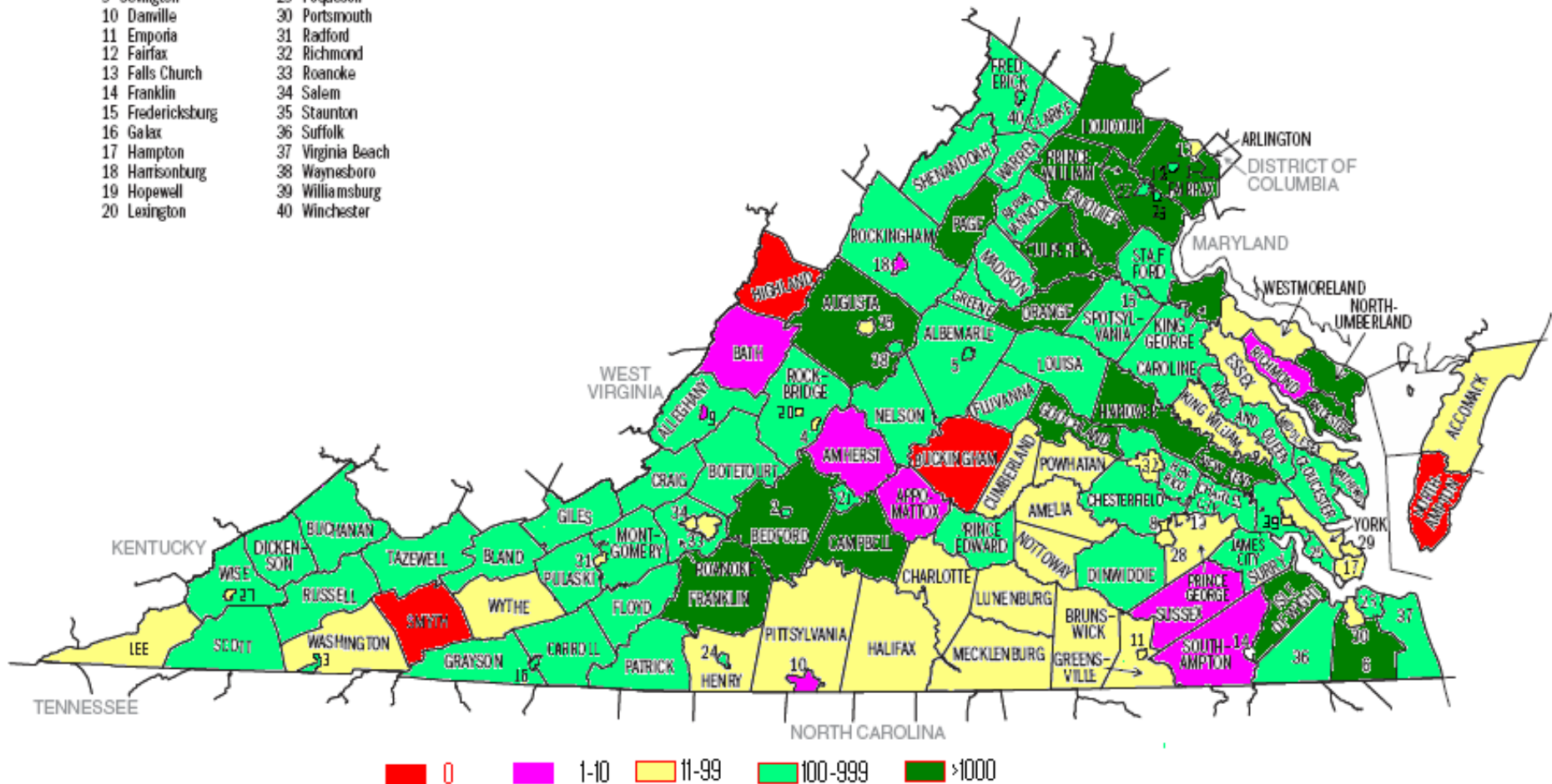


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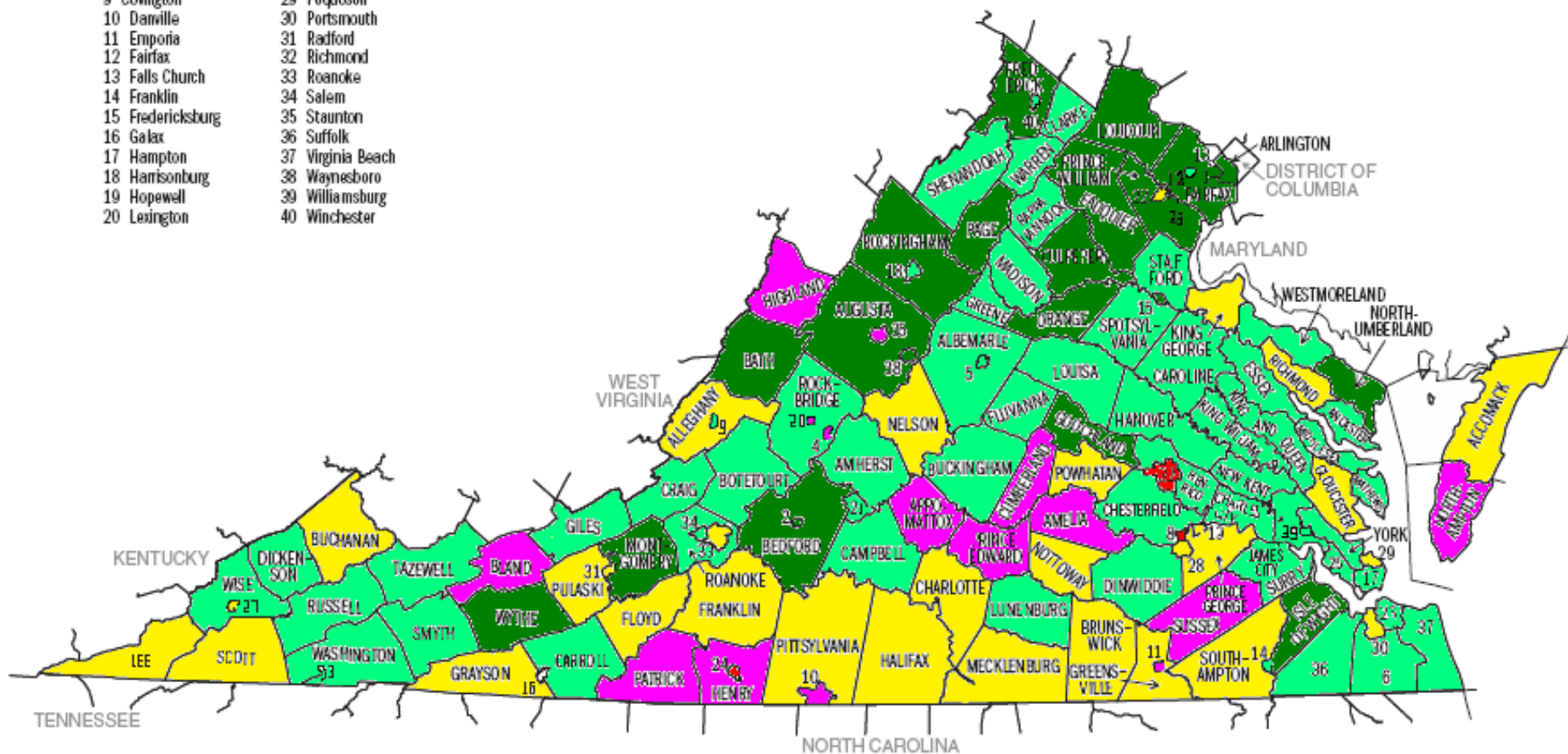
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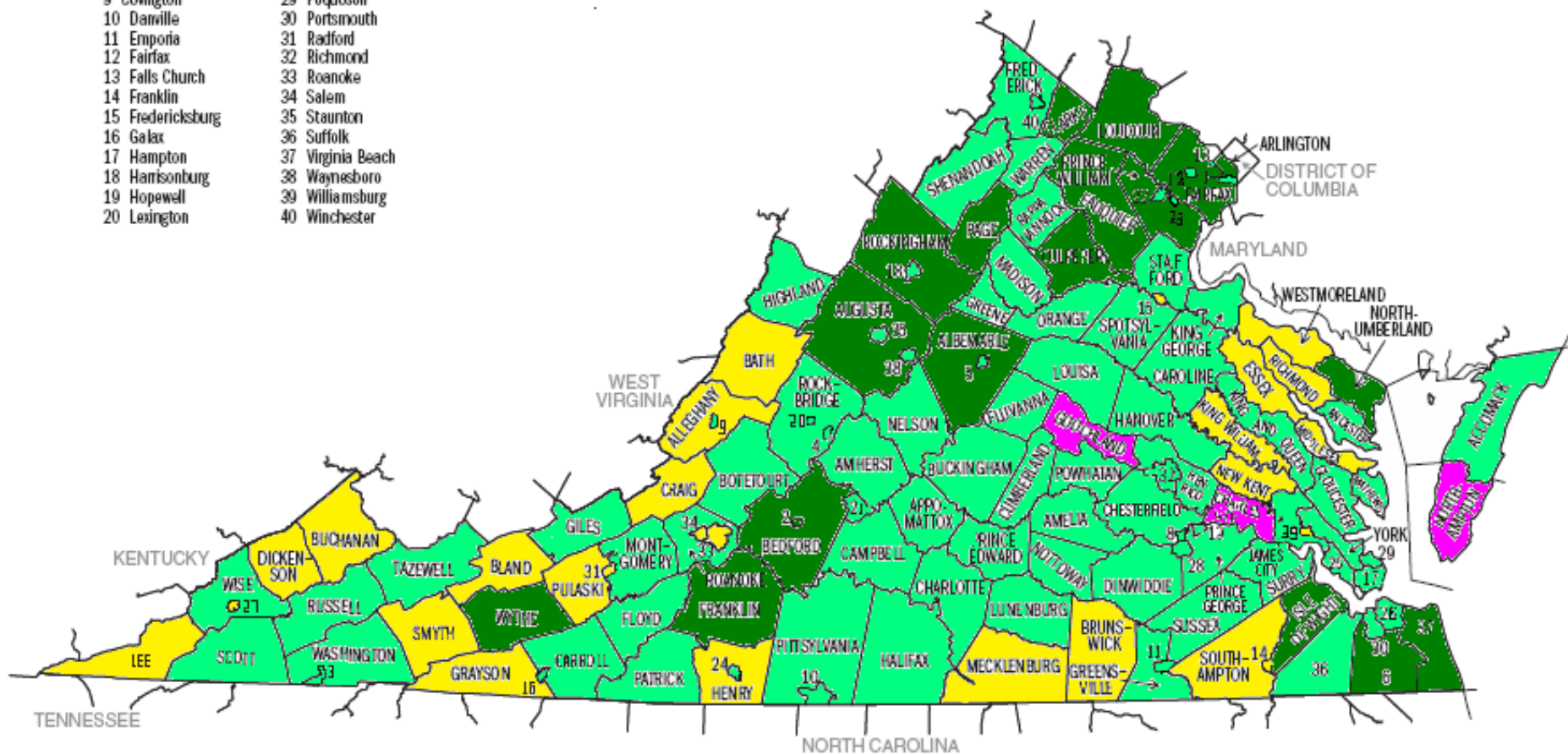


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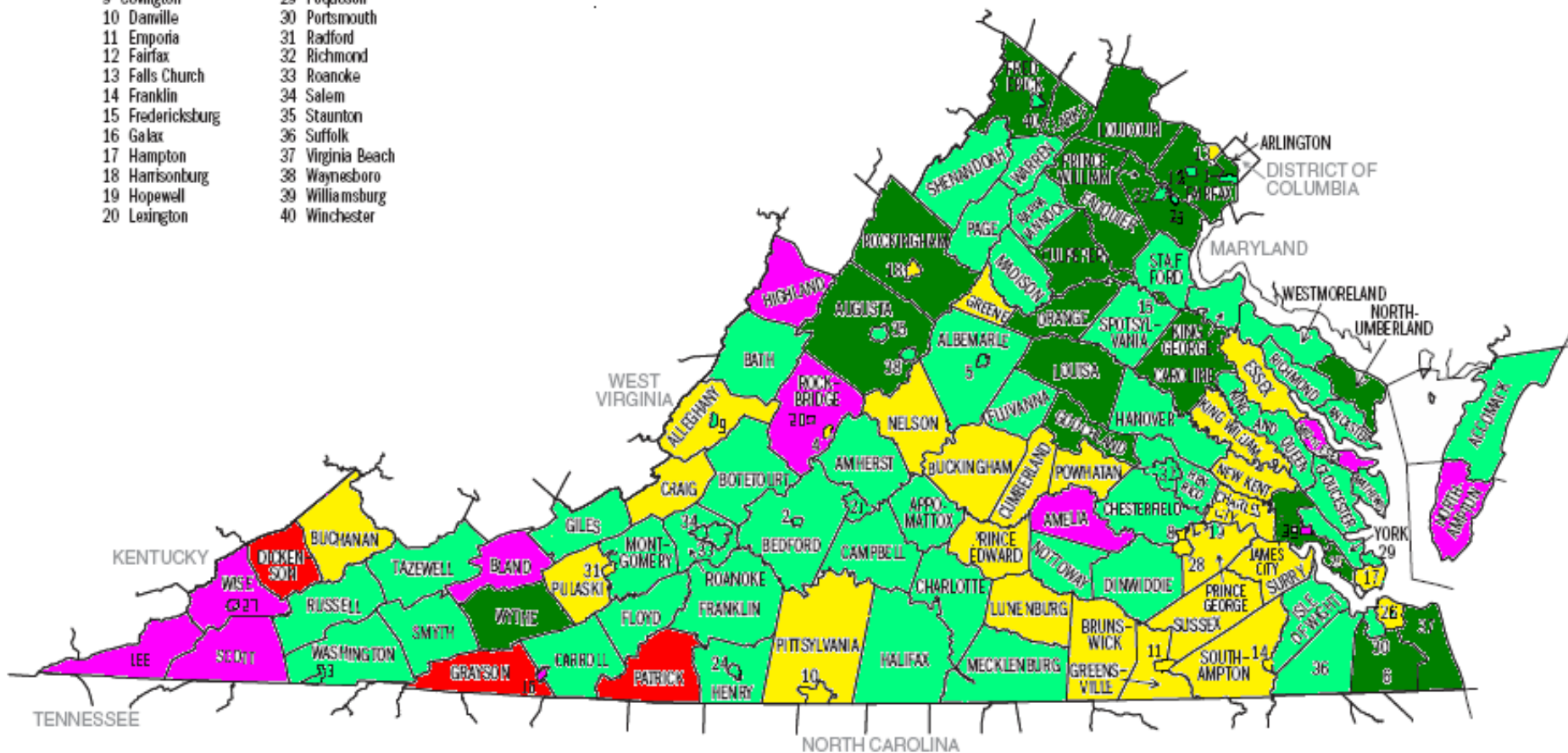
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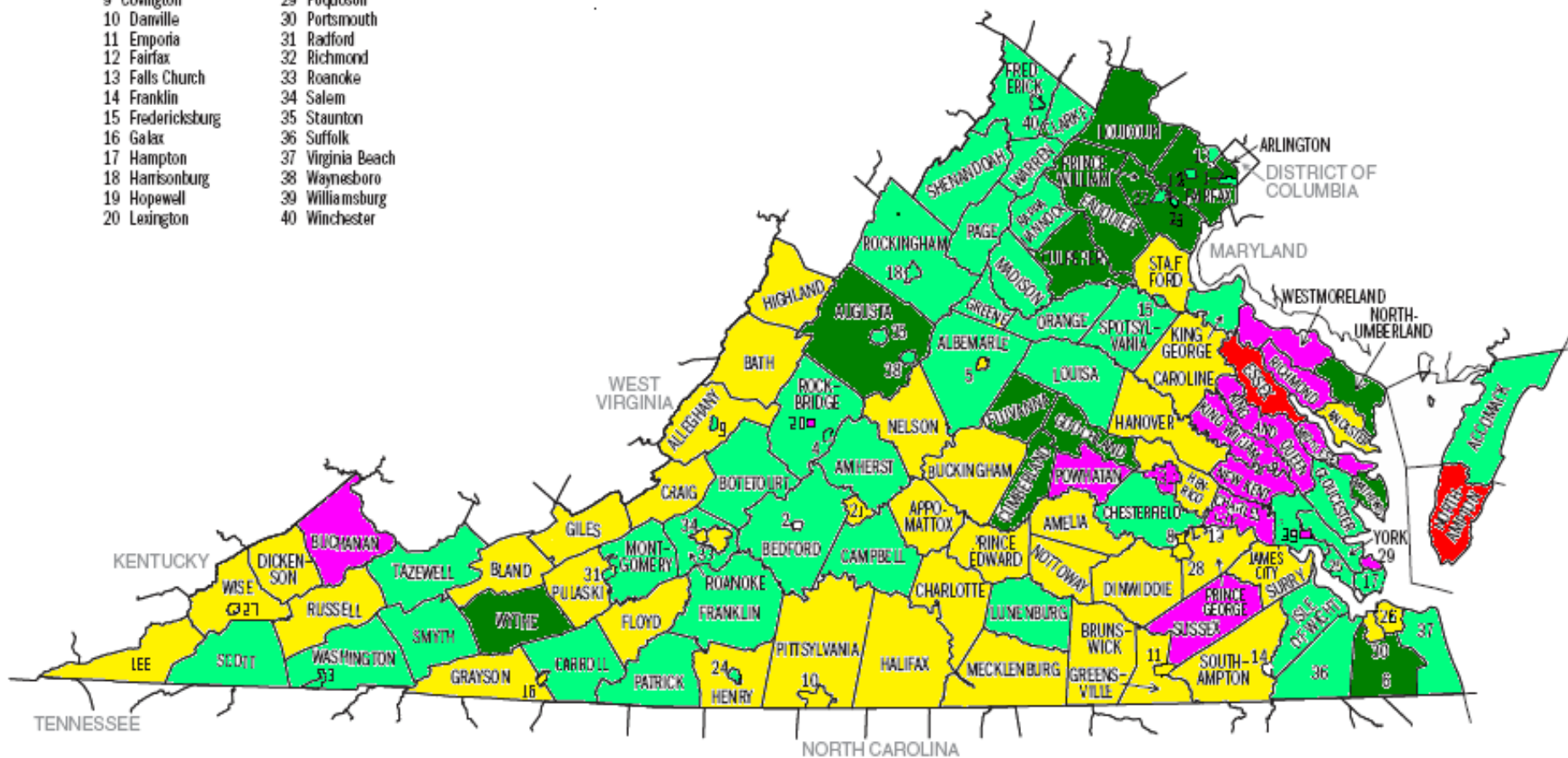


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2017 QSO Contact Analysis

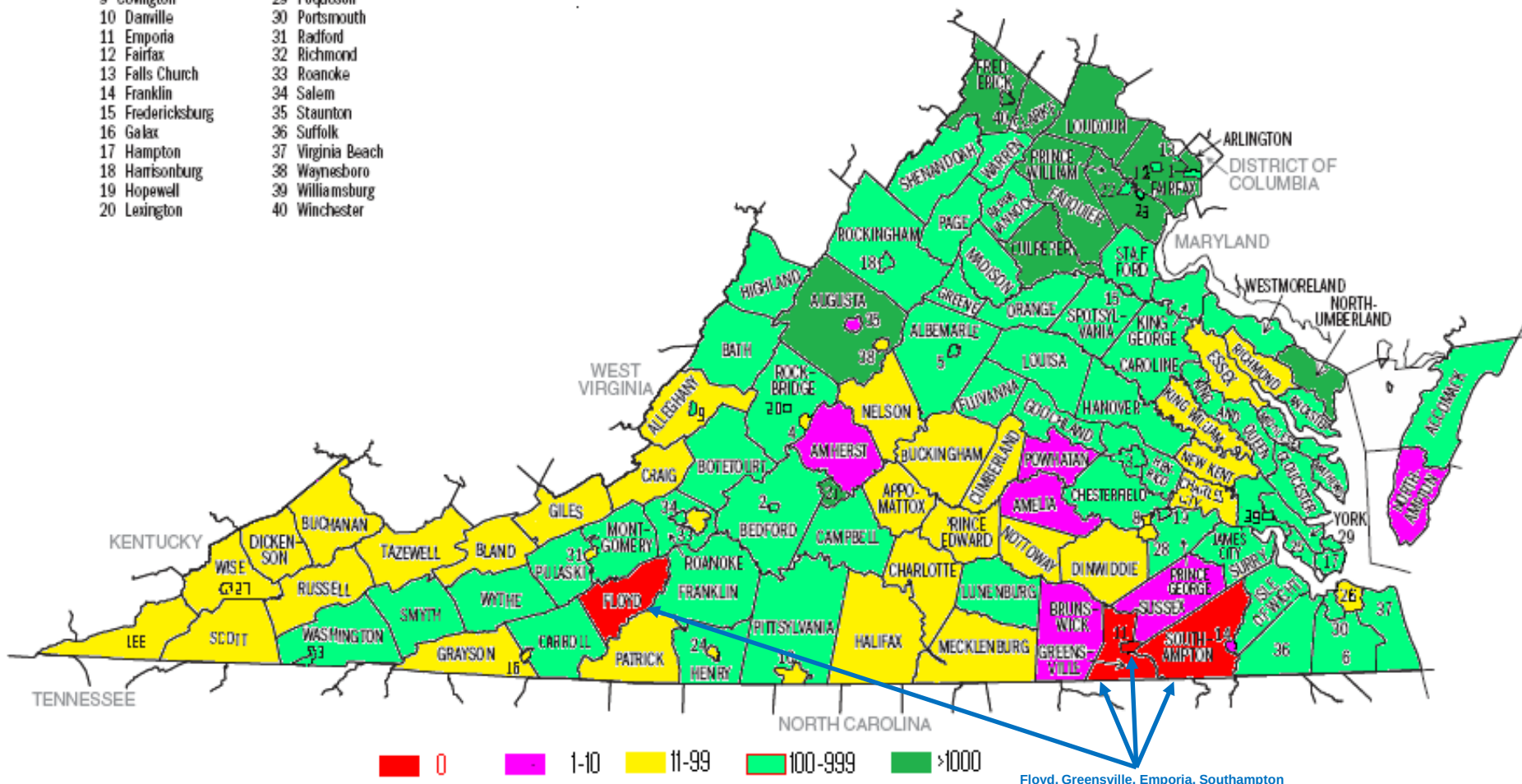


- | | |
|--------------------|-------------------|
| 1 Alexandria | 21 Lynchburg |
| 2 Bedford | 22 Manassas |
| 3 Bristol | 23 Manassas Park |
| 4 Buena Vista | 24 Martinsville |
| 5 Charlottesville | 25 Newport News |
| 6 Chesapeake | 26 Norfolk |
| 7 Clifton Forge | 27 Norton |
| 8 Colonial Heights | 28 Petersburg |
| 9 Covington | 29 Poquoson |
| 10 Danville | 30 Portsmouth |
| 11 Emporia | 31 Radford |
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0 1-10 11-99 100-999 >1000

- | | |
|--------------------|-------------------|
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Floyd, Greenville, Emporia, Southampton

2018 High Club - Combined Score

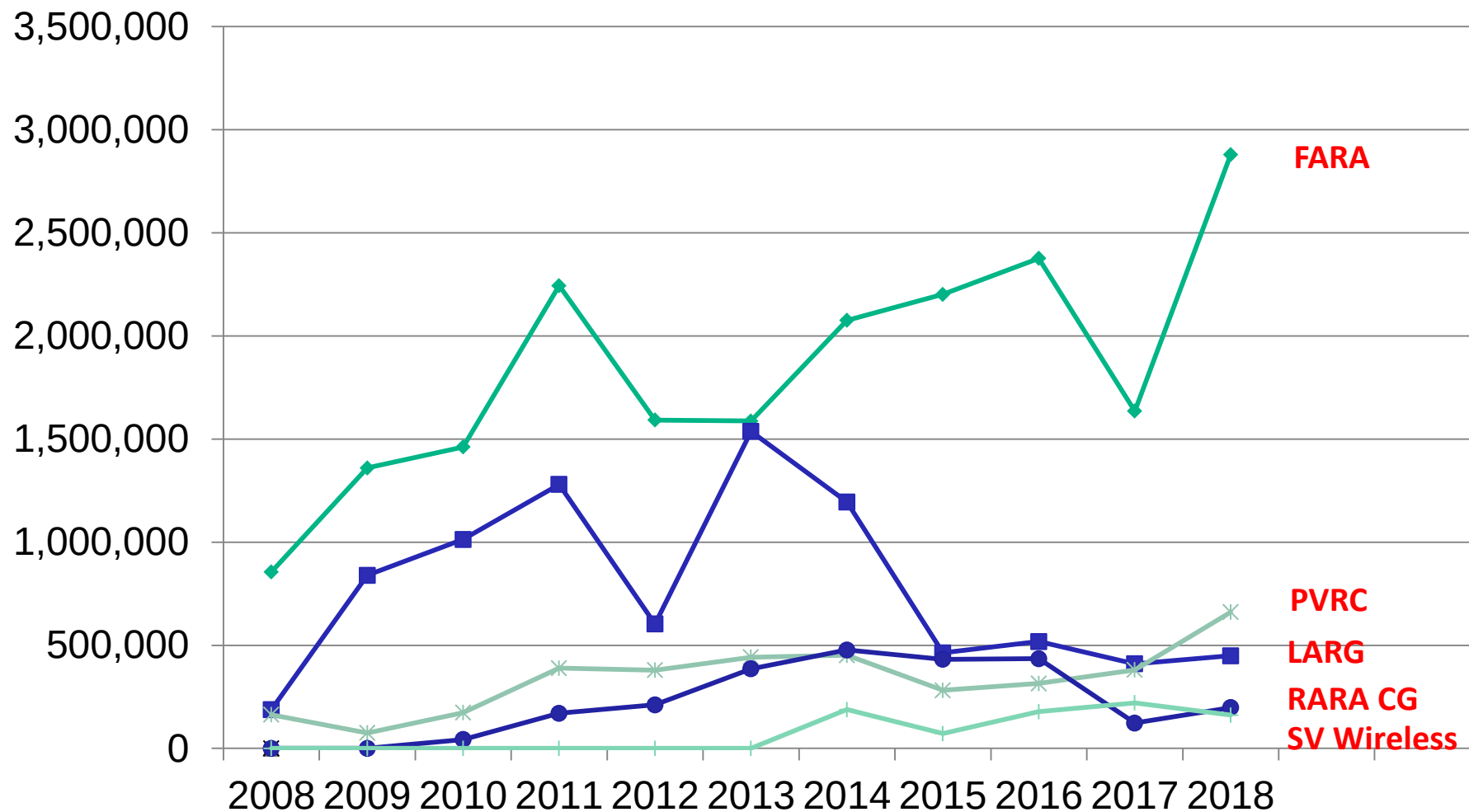


FARA	2878846
PVRC	661082
None Stated	573689
LARG	449224
Shenandoah Valley ARC	286496
RARA CG	197526
Shenandoah Valley Wireless	161230
Virginia Mountain ARC	99283
CVCC	99236
Tennessee Valley DXA	91876
Arlington ARC	76620
Blacksburg Amateur Radio Society	70167
Western Tidewater RA	62667
Middle Penninsula ARC	60448
W4OVH Ole Virginia Hams	58552
Mad River RC	50469
Culpeper ARA	39886
Williamsburg Area ARC	38026
Vienna Wireless Society	33097
Chesapeake ARS	31713
Franklin County ARC	30888
SPARC	26488
Roanoke Valley ARC	23266
Society of Midwest Contesters	21529
Bristol TN ARC	20190
Yankee Clipper CC	20095
Alexandria RC	19321
Rappahannock Valley ARC	12765

South East Contest Club	12759
Woodbridge Wireless	11823
Great South Bay ARC	8260
K4AMG Memorial ARC	7000
ARPSC	6496
Swamp Fox Contest Club	6160
Vienna Wireless	5564
Hudson Valley Contesters and DXers	5428
Metro DX Club	5214
Alamance ARC	5040
Tennessee Contest Group	4828
Ontario Contest Club	4500
Eastern Shore ARC	4272
Niagara Frontier Radiosport	4102
Frankford RC	4094
Deep Dixie Contest Club	3808
Chesapeake Amateur Radio Club	3066
Great Ridge HS ARC (W4GBH)	2716
Bristol Amateur Radio Club	2625
W/K ARC	2233
Maritime Contest Club	2024
Kentucky Contest Group	2000
Kansas City CC	1680
Albemarle ARC	1473
Georgia Contest Group	1326
DELARA Contest Team	1134
Fort Smith Area ARC	1102
Valley Amateur Radio Association	1064

Tennessee Contest Group	874
Sportsmans Paradise PARADISE ARC	850
Alabama Contest Group	792
Ole Virginia Hams	736
Northern California CC	690
Four Lakes ARC	608
Roahoke Valley ARC	598
DFW Contest Group	546
Iowa DX and Contest Club	408
Minnesota Wireless Assn	390
Russell Co. Amateur Radio Club Inc.	374
Italian Contest Club	364
Florida Contest Group	360
NorDX Club	240
EACC	220
Michigan QRP Club	200
Bavarian Contest Club	162
Sterling Park ARC	140
Radio Amateurs of Northern Vermont	132
South Texas DX and Contest Club	128
CVARS	98
St. Marys ARC	90
Rochester NY DX Assn	80
Watts Amateur Radio Club	72
Radio Club of Redmond	72
San Diego Contest Club	60
North Shenandoah DX Association	36
Spokane DX Association	4

High Club - Combined Score

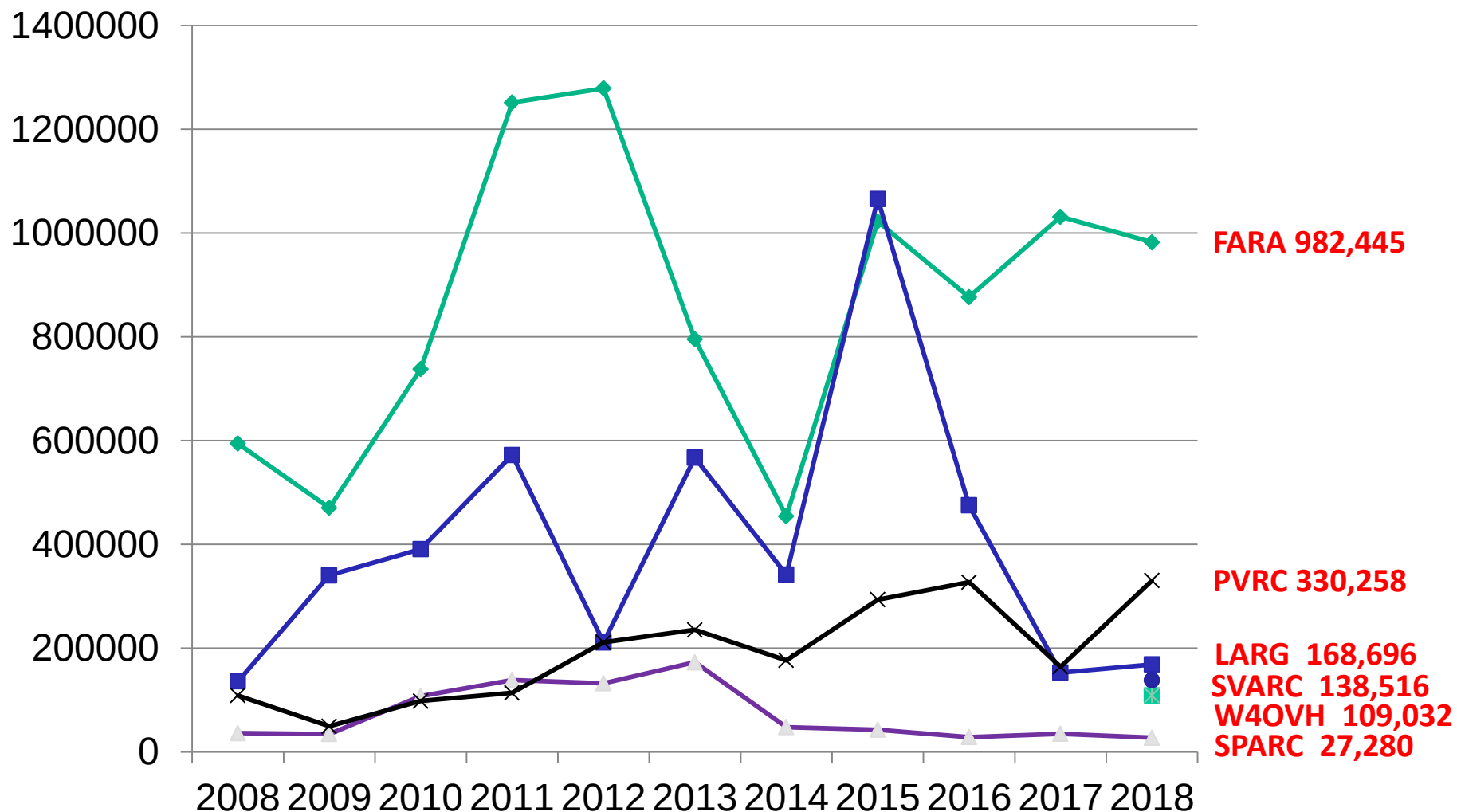


Log Counts by Club (4 or more logs)



Club	2010	2011	2012	2013	2014	2015	2016	2017	2018
None Given	108	123	126	122	128	118	133	135	126
Fauquier ARA	35	32	27	28	29	30	30	42	45
Potomac Valley Radio Club	7	8	13	14	18	16	23	20	20
Shenandoah Valley ARC	4	6	14	12	14	7	12	16	18
Loudoun ARG	24	25	17	28	25	19	20	13	18
Ole Virginia Hams	5	4	6	12	11	12	11	15	11
RARA Contest Group	3	5	7	18	16	14	17	5	8
Yankee Clipper Contest Club	2		3	3	3	3	4	2	7
Shenandoah Valley Wireless					6	3	7	13	7
Sterling Park ARC	15	11	12	15	7	7	10	10	6
Arlington ARC	4	5	3	5	9	8	9	8	6
Society of Midwest Contesters	2		2	2	4	2	2	7	6
South East Contest Club	2		2	2	3		1	4	6
Mad River RC					2	1	1	2	6
Alexandria Radio Club	5	6	13	9	7	8	7	5	5
Frankford Radio Club	4	3	6	4	5	3	4	5	5
Roanoke Valley ARC	11	9	10	4	5	6	5	2	5
Culpeper ARA									5
Williamsburg Area ARC	2	5	3	3	2	7	6	5	4
Tennessee Contest Group	5	4	4	2	3	8	6	4	4
Middle Peninsula ARC	2		5	2	2	6	2	4	4
Western Tidewater Radio Assoc	7	12	7	9	6	7	2	3	4
Virginia Mountain ARC				2	2	2	5	2	4
Central Virginia Contest Club	10	11	10	4	3	2	2	1	4
W4odbridge Wireless Inc						6	3	4	3

High Club – VA QSOs Only



Plaque Recipients by Club



Club	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Alabama Contest Club		1											
Alamance ARC	1		1	1	1	2	1	4	1	1		1	1
Alexandria Contest Club		1		1									
AMRAD									1				
Arlington ARC			1										
CVCC	3	3	4	3	4	2	1	1			1		
Fauquier ARA	4	5	3	4	7	7	9	5	7	7	9	9	10
Fluvanna County ARES									2				
Franklin County ARC	1	1	1	1	2	1		1		1	1		
Gloucester County ARC									1				
Loudoun ARG	1		1		1	2	2	3	4	3	4	1	1
Mad River Radio Club		1	1	1	1								1
Mount Vernon ARC		1	1										
None Stated / Other	3	3	3	5	4	9	9	5	5	5	4	5	5
Not Awarded			2								1		
Ontario Contest Club	2	2											
Olde Virginia Hams												1	
PVRC	2	3	1							1		2	3
RARA Contest Group									3	1			1
Roanoke Valley ARC								1	1		1		
Rappackers Contest Group			2	3									
Rockbridge ARC					1								
Shenandoah Valley ARC								1				1	1
Shenandoah Valley Wireless													3
South East Contest Club	1		2					1					
Sterling Park ARC					1			1				1	
Tennessee Contest Group				3									
VA DX Century Club	1												
Western Tidewater Radio Assoc					2	1	1	1		1/2			
Williamsburg Area ARC				1						1			
The Ferguson ARC										1			
Swamp Fox Contest Club										1			
Chesapeake ARS										2-1/2		1	
Kentucky CG											1		
Rappahannock Valley ARC											1		
SK4DM											1		
Swamp Fox CG											1	1	1
Yankee Clipper CC											2	3	



All Time High Scores

(after 2018 VQP)



2 x New High Scores

Category	Call Sign	Score	Year	Call	2018 Score
High VA Single OP High Power	N4BAA	387,466	2006	K0ZR	226,380
High VA Single OP Low Power	KW4VA	389,658	2011	W4ZAO	102,102
High Single OP Novice/Technician/Rookie	KM4IML	74,876	2015	W3JRD	36,015
High Outside VA Single OP	K1RO	124,950	2017	WB8WKQ	47,340
High Outside VA Phone/Mixed QRP	WB2P	27,191	2014	WN4AFP	6,160
High VA Single-Op Phone/Mixed QRP	WA4PGM	87,440	2003	N4RP	46,626
High Single OP VHF	KK4IML	74,876	2015	KN4JIM/M	2,522
High VA Club - Combined Score	FARA	2,376,532	2016	FARA	2,878,846
High VA Mobile Multiple Operator	WA4PGM	214,000	2008	NB3A/M	35,350
High VA Mobile Single Operator	KW4VA/M	181,529	2017	W4GO/M	162,668
High Single OP CW High Power	K0ZR	293,189	2014	N4HB	113,912
High Single OP CW Low Power	N3UA	192,572	2011	K4S (K1SE)	31,616
High Multiple Op / Single Transmitter	N4A	352,226	2008	KC4D	307,314
High Multiple Op / Multiple Transmitter	W4MYA	1,178,532	2010	KW4VA	1,025,376
High Single Band	KJ4ADN/M	164,810	2013	W2SKI	20,468
High SO VA Counties/Independent Cities	K1RO	119	2017	W4ZAO	110
High DX Station	CU2JT	5,882	2006	IZ3NVR	364
High Single Op Digital Mode	WS4V	28,368	2009	K3VAT	49,440
High VA Single OP Phone Only High Power	AI2C	288,552	2013	W4GO/M	162,668
High VA Single OP Phone Only Low Power	KJ4ADN/M	164,810	2013	W4ZAO	102,102
High Expedition	K4EG	121,610	2011	KG3V/P	25,948
High VA Club – VA QSOs Only	FARA	1,279,016	2012	FARA	982,445
High VA QRP CW	K4ORD	45,044	2008	W3TB	4,410
High Outside-VA QRP CW	W8TM	21,482	2008	N4MIO	2,610
High Single Operator - Youth	KJ4EZA@N2VA	133,180	2016	W4LCY	20,925
High Single Operator – VA QSOs Only	K1RO	124,950	2017	W4GO/M	81,487
High Single Operator Young Adult	KK4BSM	45,475	2017	KK4CLY	5,040

2 x
Win 3
plaques

John A
Keller,
W4ZAO

Matthew T
Shelburne,
W4GO/M



Virginia QSO Party

Certificates



Certificate Themes



- 2004 – 2010 State symbols
- 2011 – 2015 Notable Radio Items
- 2016 - VA Amateur Radio Clubs
 - Richmond Amateur Radio Club
 - Shenandoah Valley ARC
 - Fauquier Amateur Radio Association
 - Vienna Wireless Society



2004 Virginia QSO Party



State Boat
Chesapeake Bay Deadrise

*The Sterling Park Amateur Radio Club
congratulates*



State Fossil
Chesapeecten jeffersonius

*for promoting amateur radio activity
in Virginia's 95 Counties and 39 Independent Cities
with your enthusiastic participation
in this annual event.*

Counties

Accomack
Albemarle
Alleghany
Amelia
Amherst
Appomattox
Arlington
Augusta
Bath
Bedford
Bland
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Fairfax
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Lunenburg
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Page
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Prince William
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Rockbridge
Rockingham
Russell
Scott
Shenandoah

Smyth
Southampton
Spotsylvania
Stafford
Surrey
Sussex
Tazewell
Warren
Washington
Westmoreland
Wise
Wythe
York

Poquoson
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Danville
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Portsmouth
Winchester
Emporia
Lynchburg
Radford

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Newport News
Staunton
Charlottesville



2005 Virginia QSO Party



Floral Emblem
Dogwood



State Bird
Cardinal

*The Sterling Park Amateur Radio Club
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Rockingham
Russell
Scott
Shenandoah

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2006 Virginia QSO Party



State Dog
American Fox Hound



State Bat
Virginia Big-Eared Bat

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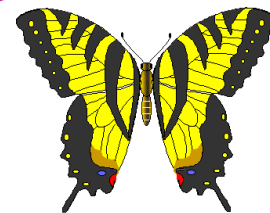
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2007 Virginia QSO Party



State Fish
Brook Trout
(adopted in 1993)



State Insect
Tiger Swallowtail Butterfly
(adopted in 1991)

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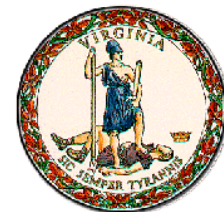
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2008 Virginia QSO Party



Chincoteague Pony



Smithfield Ham

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Harrisonburg



2009 Virginia QSO Party



Virginia Peanut



Hanover Tomato

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Russell
Scott
Shenandoah

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Southampton
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Tazewell
Warren
Washington
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Williamsburg
Winchester

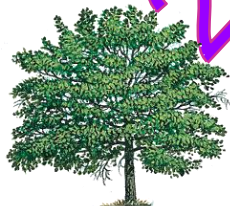
Hopewell
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Manassas
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Martinsville
Newport News
Norfolk
Norton
Petersburg
Poquoson
Portsmouth
Radford

Independent Cities

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Fredericksburg
Galax
Hampton
Harrisonburg



2010 Virginia QSO Party



State Tree
Flowering Dogwood

*The Sterling Park Amateur Radio Club
congratulates*



State Shell
Crassostrea virginica

*for promoting amateur radio activity
in Virginia's 95 Counties and 39 Independent Cities
with your enthusiastic participation
in this annual event.*

Counties

Accomack
Albemarle
Alleghany
Amelia
Amherst
Appomattox
Arlington
Charlotte
Augusta
Bath
Bedford
Bland
Botetourt
Brunswick
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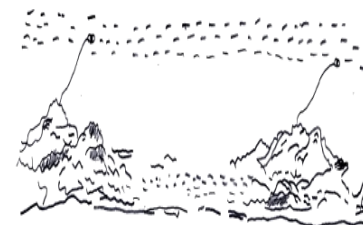


Mahlon Loomis
(1826-1886)

2011 Virginia QSO Party



The
Sterling Park Amateur Radio Club
thanks



First Wireless Telegraphy QSO
occurred between two stations
in Loudoun County, VA in October 1866.

*for promoting amateur radio activity
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2012 Virginia QSO Party



1912: US Navy built "Three Sisters" radio towers. Shown behind US Army cavalry drill at Fort Myer, VA.

*The
Sterling Park Amateur Radio Club
thanks*



1913: QRV as NAA, QSO w/ Eiffel Tower and USS Delaware in Azores.
1915: wireless telephone msg to CA.

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2013 Virginia QSO Party



WRVA QRV: 2 Nov 25
Voice of Virginia / Edgewood Radio

*The
Sterling Park Amateur Radio Club
thanks*



QTH: Tobacco Row, Richmond, VA.
And WRVA/mobile

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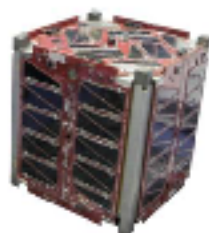
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2014 Virginia QSO Party



TJ3SAT, built by Thomas Jefferson High School, Fairfax, VA, and industry partners, was launched into space on 10 Nov 13.

*The
Sterling Park Amateur Radio Club
thanks*



Call sign: KK4PHU
Downlink: 437,320 MHz 1200 bps AFSK
Mission life: 6 months.

**«NAME», «CALL»
«CERTIFICATE»**

(CONTACTED «CIC» COUNTIES AND INDEPENDENT CITIES. SCORED «SCORE» POINTS)

*for promoting amateur radio activity
in Virginia's 95 Counties and 38 Independent Cities through
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Winchester



2015 Virginia QSO Party



Vic Clark, W4KFC (SK)
ARRL President 1982-1983
When living in Fairfax County

*The
Sterling Park Amateur Radio Club
thanks*



Kay Craigie, N3KN
ARRL President 2010 - Present
Living in Montgomery County

*for promoting amateur radio activity
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2016 Virginia QSO Party



*The
Sterling Park Amateur Radio Club
thanks*

The Richmond Amateur Radio Club is the successor to the Richmond Shortwave Club and the Tri-County Radio Club.

George C. Robinson, 3GX, was 1 of 5 Virginia operators on 1913 list of amateur stations and founded the Tri-County Radio Club in April 1916.

*for promoting amateur radio activity
in Virginia's 95 Counties and 38 Independent Cities through
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2017 Virginia QSO Party



The Shenandoah Valley Amateur Radio Club built their ham shack in 1954 with help from John, N4MM, and Sam, W4WSE, who remain active members.

*The
Sterling Park Amateur Radio Club
thanks*



Perhaps the oldest continuously operating ham shack in VA, the shack is joined by two buildings, modern radios, and antennas.

*for promoting amateur radio activity
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2018 Virginia QSO Party



*The
Sterling Park Amateur Radio Club
thanks*

Thanks to Fauquier Amateur Radio Association
for designing the 2018 certificate.

*for promoting amateur radio activity
in Virginia's 95 Counties and 38 Independent Cities
through enthusiastic participation in this annual event.*



Forests, farms, foxes and the Fauquier Amateur Radio Association.
Sharing an interest in VAQP and all things amateur radio for forty years!





2019 Virginia QSO Party



The
Sterling Park Amateur Radio Club
thanks

**NAME, CALL-SIGN
CATEGORY RANKING**

SCORED <> POINTS. CONTACTED <> COUNTIES AND INDEPENDENT CITIES.

*for promoting amateur radio activity
in Virginia's 95 Counties and 38 Independent Cities
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Vienna Wireless Society

Amateur Radio Club Since 1963

**“Promoting Amateur Radio in the Washington DC Metropolitan Area
for Over 55 Years”**



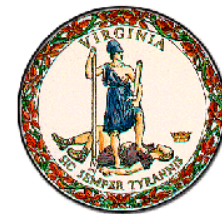
How are we doing?

State	Logs Rec'd	Rank by Logs	Licensed Ops	% Log/Licensed	Rank by % Participation	Party Date
CA	897	1	105,039	0.89	10	Oct 18
FL	559	2	41,542	1.38	5	Apr 18
PA	433	3	23,841	1.79	2	Oct 18
VA	409	4	19,746	2.03	1	Mar 18
NC	353	5	20,569	1.56	3	Feb 18
OH	303	6	27,979	1.01	7	Aug 17
IL	308	7	20,013	1.4	4	Oct 18
WA	302	8	32,614	0.94	9	Sep 18
NY	263	9	27,490	0.95	8	Oct 17
MI	249	10	20,833	1.16	6	Apr 18
TX	216	11	52,256	0.42	12	Sep 17
AZ	123	12	19,993	0.65	11	Oct 17

We do very well!

* PA: Count of unique callsigns.

Updated 24 May 2018



2019 Virginia QSO Party



See you on the air!

73,

Sterling Park Amateur Radio Club