

Virginia QSO Party

2020

Pre-Party Briefing

Sterling Park Amateur Radio Club (SPARC)

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

Gordon Miller, NQ4K

Published: 13 Nov 19

1 Jan 20: Added 2020 Certificate

3 Jan 20: Add Improve Activations slide 13

Updated plaques and sponsors.

19 Jan 20: Added "Most Wanted" pg 14.

5 Feb 20: Updated dates, pg 20

6 Feb 20: Added State QSO Party Challenge, pg 10

Updated APRS tracker pg 6

15 Feb 20: Spelling corrections

16 Feb 20: Updated plaque sponsors



Significant Changes for 2020



- President's Plaque
 - Recognize those who encourage participation
- Automated log submission process
- Group and mail certificates by Club
 - Available for pickup at Awards Ceremony by Club.
 - Mail to high scorer in each club.

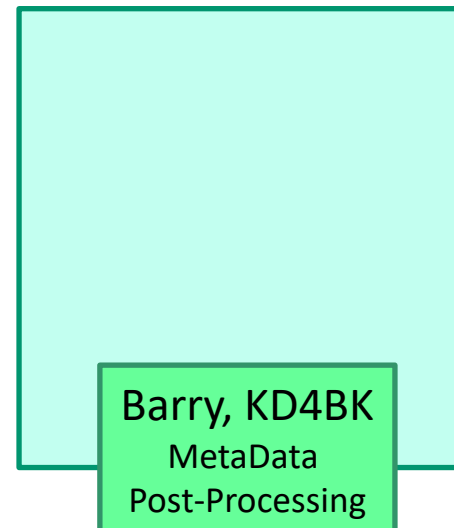
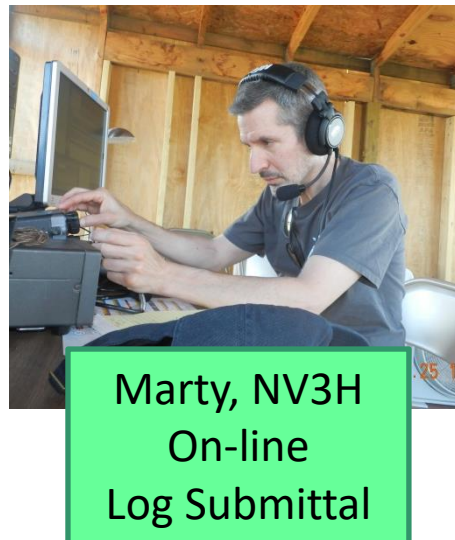
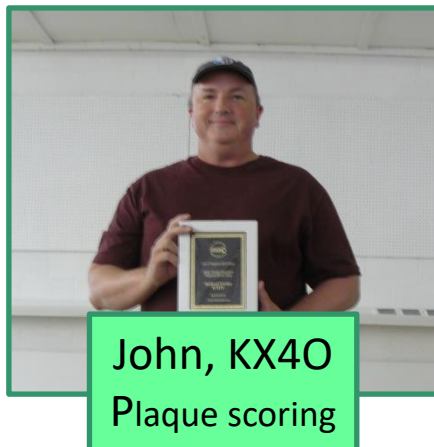
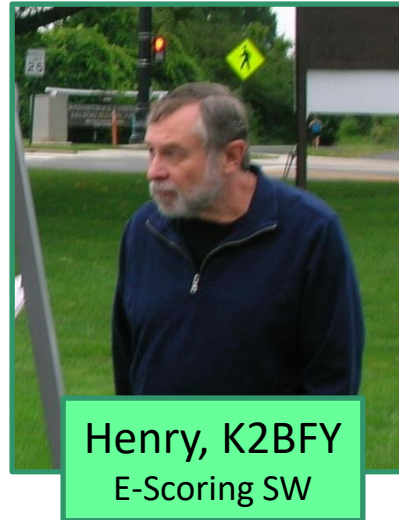


Topics



- Hams who helped and Other Topics
- Plaques and Sponsors
- Rules
- Meta-Analysis of the 2019 QSO Party
- All Time High Scores
- Certificates

2020 VQP Committee



2020 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

K4RVA Welcome Page x http://www.qsl...es&Cities.html x QSO Party and Operating Ev... x

www.qsoparty.com Search

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
Enter Web Spots [Here](#) - Account Required
[Create or Update Account](#)
Locate mobile stations: [VaQP APRS Mobile Tracker](#)

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	N03K	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	HAX 15 MINS NVT CNTV	<KX4O>

2020 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

2019 VQP Significant Contributors



Once again, mobiles made a significant contribution, especially to activating counties and independent cities.

W4GO/M

1551 QSOs 72 C&IC
mostly on 40/80M

NB3A/M

297 QSOs 58 C&IC
on 70cm/2/40/80M



KJ4OAP/M

583 QSOs 58 C&IC
on 40/80M

2020 Announced Operations

Please submit your operation



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

Need to get move coverage in
most counties/cities.

KD4MAX



Top of Spy Rock
With Boy Scout Troop 55



KI4FW:

“Rick’s *Independent City Rambler*”.

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



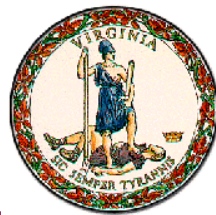
Kevin, KJ4OAP
Mobile Operation

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



New Contest

State QSO Party Challenge



- Recognize all radio amateur participation in US State and Canadian Province QSO Parties.
 - 47 parties in all
- Scoring:
 - Total number of contacts X
 - Number of QSO Parties entered.
 - Entered means at least 2 QSOs.
- Scores submitted to 3830Scores.com
- Big increase in entries?
- Big increase in number of 2 QSO entries?



FT8



FT8 digital entries started in 2018

VQP requires the stated contest exchange,
i.e., require SN and QTH.



2020 VQP President's Plaque



- New plaque for 2020
- Recognizes hams involved in promoting VQP.
- Awarded to the hams who, in the opinion of the VQP committee,
 - Significantly improves participation in the VQP by hams in low participation counties and independent cities or
 - Other contribution to the VQP.
- Please coordinate your efforts with the VQP committee



Improve Activations in Counties and Independent Cities



- Mobiles make a superb effort to ensure that counties and independent cities are activated.
- However, we get only get fixed station logs from 70 C&IC. See list in briefing.
- **Need to do more to get fixed station logs from all 133 QTHs.**
- We want to recognize those that make the effort to help us accomplish that goal.
- We cannot do this alone. Need help.



2020 VQP Plaques and Sponsors (1 of

26 plaques
+ 1 new plaque



Plaque	Sponsor
Special Awards	
President's Plaque	Gordon Miller, NQ4K
Plaques for only to Virginia Stations	
Virginia Single Operator High Power	Shenandoah Valley ARC
Virginia Single Operator Low Power	EasyWayHamBooks.com
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	Robert Harvey, K2PI
Virginia Club Combined Score	Vienna Wireless Society
Virginia Club - Virginia QSOs Only	www.hamradio.me
Virginia Fixed Multiple Operator Single Transmitter	Andy Zwirko K1RA / KW4VA
Virginia Fixed Multiple Operator Multiple Transmitter	Directive Systems and Engineering



2020 VQP Plaques and Sponsors (2 of 2)



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

Most Wanted fixed site / logs



QTH	Sum of Logs from 2018 & 2019	Sum of QSOs fro 2018 & 2019						
Buchanan	0	23	Williamsburg	0	107	Manassas Park	0	250
Dickenson	0	23	Tazewell	0	116	Dinwiddie	0	260
Patrick	0	38	Greensville	0	125	Page	0	282
Floyd	0	41	Danville	0	132	Lunenburg	0	315
Buena Vista	0	43	Buckingham	0	133	Colonial Heights	0	319
Norton	0	46	Essex	0	133	Richmond	0	326
Lee	0	49	Middlesex	0	133	Petersburg	0	330
Staunton	0	49	Powhatan	0	145	Grayson	0	363
Craig	0	57	Mecklenburg	0	148	Nelson	0	554
Amelia	0	59	Nottoway	0	152	Rappahannock	0	606
Radford	0	67	Martinsville	0	154			
Northampton	0	70	Sussex	0	164			
Galax	0	72	Falls Church	0	166			
Franklin	0	87	New Kent	0	167			
Scott	0	89	Emporia	0	170			
Appomattox	0	97	Wise	0	174			
Bland	0	97	Halifax	0	190			
Charlotte	0	104	Henry	0	196			
Brunswick	0	106	Highland	0	210			
			Pittsylvania	0	215			
			Greene	0	218			

Counties and
Independent Cities
with
0 logs and
less than 100 QSOs

2019 Plaque Competition Counts



Plaque	2017	2018	2019
Single Operator Young Adult	1	1	n/a
Single Operator Digital Mode	2	3	0
DX Station		3	2
Virginia Mobile Multiple Operator	0	4	2
Virginia Single Operator CW QRP	3	14	3
Outside Virginia Phone/Mixed QRP		12	4
Single Operator Youth		7	4
Virginia Single Operator CW High Power		13	5
Virginia Expedition	2	3	7
Outside Virginia Single Operator CW QRP	3	10	7
Virginia Single Operator Phone/Mixed QRP		13	10
Multiple Operator Single Transmitter	7	11	11
Single Operator VHF Only		18	15
Virginia Single Operator Phone High Power		28	18
Virginia Mobile Single Operator		35	18
Multiple Operator Multiple Transmitter	6	8	21
Single Operator Novice/Tech/Rookie		22	22
Virginia Single Operator CW Low Power		47	24
Virginia Single Operator High Power		79	50
Single Band		110	91
Virginia Single Operator Phone Low Power		143	128
Virginia Single Operator Low Power		266	188
Outside Virginia Single Operator		167	195
Single Operator Virginia Counties/Ind Cities Contacted		390	425
Single Operator Virginia QSOs Only		390	425

Deleted for 2019

No entries!

**Some
plaques
need more
competition!**

2019 Pre-Party Presentations



Richmond Amateur Radio Club, 8 February 2019



2019.02

Roanoke Valley Amateur Radio Club, 22 February 2019

2019 Pre-Party Presentations



Shenandoah Valley ARC, 7 March 2019



Alexandria Radio Club, 8 March 2019

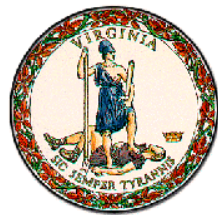
2019 Scoring Party



2016 scoring party
Dick, 2YE; Gordon, NQ4K;
Monte, KV4KS; Bill, K4UPE.

No scoring party held.
2017 - 27 paper logs.
2018 - 17 paper logs.
2019 - 15 paper logs.

Paper logs almost gone.
Expect a few to remain.



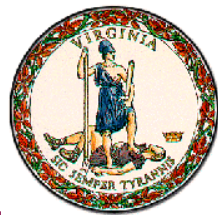
Virginia QSO Party

2020 Rules

There are no rule changes for the 2020 Virginia QSO Party.



2020 Rules Objective and Dates



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

Sat 21 Mar 1400 UTC – Sun 22 Mar 0400 UTC
(Saturday, 10 AM – 12 Midnight local)

Sun 22 Mar 1200 UTC – 2400 UTC
(Sunday, 8 AM – 8 PM local)



2020 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/FT8)
Mixed

Station Categories

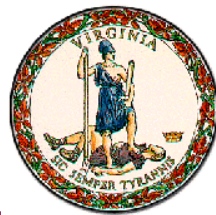
Fixed Station
Mobile
Expedition

Band Categories

Multi-Band
Single Band

Club Entry

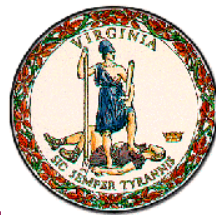
2020 Rules Valid Contacts



- 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.



2020 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.

2020 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



2020 Rules Scoring



- Bonus Points

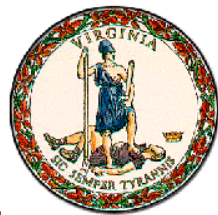
- VA Mobile and Expedition stations: 100 points for each VA County/Independent City from which they log a valid QSO.
- No bonus stations.

- Final score

QSO Points X Multipliers + Bonus Points



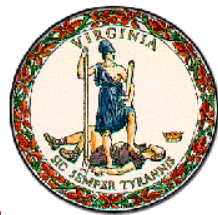
2020 Rules Entries



- 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.



2020 Rules Awards



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



2019 Virginia QSO Party

Log Metadata Analysis and QSO Analysis

Log MetaData



Year	No. of logs
2019	449
2018	409
2017	399
2016	413
2015	375
2014	379
2013	386
2012	356
2011	358

Big increase
from last year.

Year	No. of logs
2010	341
2009	364
2008	336
2007	353
2006	279
2005	170
2004	138
2003	142
2002	124
2001	110

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	19
Extra	103	170	229	210	224	213	214	236	253	252	252	282	271	289	322
Advanced	8	17	12	11	9	10	10	14	13	14	15	12	10	9	8
General	32	47	71	67	81	70	83	67	75	67	71	78	83	71	82
Tech	11	20	5	11	16	14	10	6	12	5	10	9	8	8	10
Club	4	4	11	13	11	10	6	18	12	13	16	16	11	13	11
Other	11	21	23	24	23	24	35	15	21	28	11	16	16	19	16
Total											375	413	399	409	449

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	2019
High	1,129,640	926,172	971,861	600,180	1,025,376	1,193,975
Average	20,854	17,513	17,179	12,290	1,500	13,811
Median	3,564	3,608	2,678	1,704	15,466	1218
Low	0	1 (4x)	1 (x11)	0 1 (x8)	0 1 (x8)	0 (x3) 1 (x10)

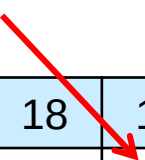
High is KW4VA
(multi-multi) with
8 operators.

“0” checklogs
–bad QTHs)

Log MetaData

Distribution between modes is about same.

CW remains strong - 21%



Mode	05	06	07	08	09	10	11	12	13	14	15	16	17	18	18
CW	22	39	43	54	66	41	52	45	50	55	47	60	50	82	95
Mixed	148	98	117	110	90	88	96	105	108	124	140	138	129	133	142
Phone	0	140	187	169	204	208	205	204	226	198	185	211	218	191	211
DG	0	2	6	3	4	4	5	2	2	2	3	4	2	3	0

No Digital logs

Log MetaData



Most hams use low power.

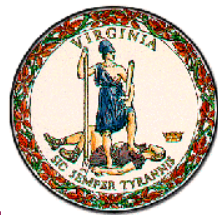
Power	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
Hi-Low	155	260	330												
High				73	80	66	73	63	67	63	51	75	68	92	92
Low				238	263	248	256	272	287	285	285	308	311	290	331
QRP	15	19	23	25	21	25	29	21	32	31	39	30	20	27	26

Expeditions are UP!

Station	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
Fixed	145	220	310	291	311	295	312	308	318	346	320	369	370	362	412
Mobile	24	55	39	37	47	43	39	40	45	30	39	41	26	39	27
Expedition	1	4	4	8	6	3	7	6	5	3	16	2	2	3	7
Checklog								1				1	1	5	3

Log MetaData

Multi-Ops increasing



# Ops	06	07	08	09	10	11	12	13	14	15	16	17	18	19
1	263	333	315	350	318	337	339	374	369	359	395	386	390	426
2	8	7	15	6	9	6	5	6	3	6	8	6	12	10
3		4	2	3	4	4	3	2	2	4	5	2	1	
4	5	4	1	1	2	3	2	1	2	3	2	2	1	3
5	1	1				1	1		1	1		1	1	4
6		1		1	1	2	1				1			1
7					1	1		2		1	1		2	1
8	2		1		2		1		1	1	1	2	1	2
9		1	1	1			3		1					
10			1			1		1					1	
11						2								
12														1
13		1		2		1	1							
15					2									
Total	16	19	21	14	21	21	17	12	10	16	18	12	19	22

KW4VA
N3DPB

K4HTA

Log MetaData



80M remains popular. 40M decreases. 20M drops.
Most chase propagation to get QSOs.

Band	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
All	133	201	266	265	273	260	284	272	272	279	266	304	321	290	358
SB(160M)							1								
SB(80M)	3	6	20	13	16	9	4	2	4	1	2	3	5	26	40
SB(40M)	11	13	27	21	27	38	37	58	79	73	69	64	39	53	29
SB(20M)	4	11	16	18	18	11	13	13	10	9	12	12		21	7
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	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	5

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	254
Not VA	60	97	143	128	137	102	108	116	129	136					
Other US											107	133	135	190	180
Canada											6	11	8	11	13
DX											3	5	7	3	2
Total	170	279	353	336	364	341	358	356	386	379	375	413	399	409	449

Big jump in Virginia logs

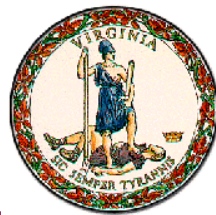
Log QTHs DX

Only 2 DX Logs
Bad propagation
Low 20M QSOs



DX QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
Argentina			1												
Azores				1											
Columbia							1						1		
Curacao							2								
Czech 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				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					1
Spain			1									1		1	
Sweden						2				3		1			
Ukraine			1		1										
West Indies								1							

Logs from US and Canada (1 of 3)



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
AB														1	
AL	1	3	1	3	2	3	2	2	1	2				1	2
AZ			2	3	5	1	1	4	3	1		2	1	2	
AR		1				1				1		1	1	2	3
BC	1	2	1	4	1									1	
CA	1	3	7	1	3	2	3	3	2	1	6	4	6	8	8
CO		2	2				1		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		4
FL	3	7	6	7	8	5	9	9	7	7	9	4	7	4	5
GA	2	6	4	4	3	3		1	4	2	2	3	7	7	8
IA	1		1	1					1	1				2	2
ID				1					1	1	1	2	1	1	
IL	1	3	2	4	4	5	3	2	2	5	2	5	8	9	7
IN	1	4	3	2	2	1	1	3	1	2	1	1		1	6
KS		2	3	1	2	4	2	4	2	1	1		2	3	2
KY	1	2	2	2	3	1	1	1	1			4	7	5	4
LA	1	1		1	1	1		2			2		1		3
MA												9		5	6

5 or more in GREEN

36 states 2 provinces

Logs from US and Canada (2 of 3)

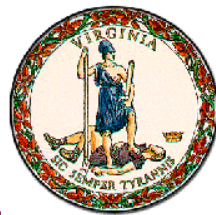


QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
MDC	3	4	3	3	3	2	2	4	6	6	7	9	4	5	7
ME			2	1	1			1		1				2	3
MI	6	3	5	2	6	2	1	4	4	2	3	1	3	7	3
MN	2	1		3	3	2	2	1	1	4	2	4	2	2	3
MO	1	1	1	2	1	2	5	4	3	7	3	6	5	7	4
MS	1	1		2	2		1				1	1		1	
MT	1	1	1	1						1		1		1	1
NB			1					1	1						
NC	2	3	4	4	5	8	7	2	8	12	8	5	6	5	8
ND										1	1		2	1	1
NE		3	2	1											
NH	1	1	2	3	2	2	2	2	1	2	1	2	2	3	2
NJ	4	4	6	5	3		4	6	6	11	9	8	7	6	10
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	11	13	7
OH	1	3	7	6	9	8	7	6	15	6	6	11	7	1	1

5 or more in GREEN

36 states 2 provinces

Logs from US and Canada (3 of 3)



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
OK		2	1	1					1				2	1	3
ON	3	5	9	8	5	3	4	7	5	4	5	10	7	7	11
OR					1	1	1	1	1			1	2	3	1
PA	4	3	6	10	8	12	15	6	12	7	9	9	9	6	12
RI		1		1	2	2	2	3				1			
QC	1		3	1	1	1	2	1	1	2	1	1	1	2	2
SC	1		1	1		2		2	1	1	2	5	4	3	4
SD			1	3	1						1	1			2
SK	1	1	1	3	3			1	1					2	
TN	2	6	4	4	7	8	5	5	7	9		13	11	12	14
TX	2			1	4	3	1	3	2	3	4	8	6	2	7
UT					1	1							1	1	
VT			2	1	2	1				1				3	4
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	3
WV	2	5	2	3	1	2	1	1		4	2	2	1	5	7
WY			1	2							1				

5 or more in GREEN

36 states 2 provinces

Logs from VA (1 of 4)

Logs from 71 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
ACC	1	1				1	3	1		1	1	2	2	1	2
ALB				2	2	3		4	2	2	2	2	2	1	2
ALL	1							1	2	1	1	2	1	1	1
ALX	2	2	1	1	2	2	2	3		2	1	3	2	1	2
AME															
AMH	1		1		1	2	2			1	1	1	2		2
APP								1				1			
ARL	3	4	8	1	4	7	4	4	7	9	8	7	5	4	10
AUG			1	1	1	1	4	4	5	2	3	5	7	6	5
BAT	1	1	2	1	1	3		2		1		1	1	2	1
BCH															
BED	1	2		2	3	1	3	3	5	3	3	1	3	3	4
BHM							1			1					
BLA															
BOT							1	1	1	2	3	4	1	2	
BRU															
BRX								1	1	1	1	1	1	1	1
BVX															
CAM			1	2		1	3	1	4	3	2	1	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	1
CHX						2	1	2	2	1	1	2	1	2	1
CLA	2	2	2	2	2	2	3	2	3	4	5	2	2	5	2
CLN							1	1	1	1	1	2	1		1
COX															
CPX	1	3	7	5	3	9	6	6	5	6	8	7	7	4	6
CRA			1	1	1	1		2	1	1					
CRL		1	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	5
CUM											1		2		1
CVX	1	2	2	2	1	1	1	1	1	2	1	1	3	2	3
DAX															
DIC			1		1		1								

Logs from VA (2 of 4)

Logs from 71 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
DIN						1	1	1	1		1				
ESS		1		1								1			
Exp	1	4	4	8	6	3	7	6		3	16		2	3	6
FAU	11	14	15	12	19	18	14	7	10	14	12	15	23	15	18
FBX	1	1	1	1		1		1	1	2		2	1		1
FCX											1				
FFX	12	12	28	15	19	15	23	15	19	22	20	17	18	14	25
FLO					1	2		1							
FLU		1				1		2	1	2	1	4	3	1	1
FRA	2	3	3	3	4	2	3	3	4	3	2	3	1	3	4
FRE	2	3	2	2	3	1	2	7	5	8	5	7	7	9	8
FRX					1	1	1	1		1		1			
FXX			1		1	1	1	2	2	1				1	3
GAX															
GIL	1	2	1	2	1	1	2	1	1	2	1	1	2	2	1
GLO				2				2	1		3	1	3	3	1
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	4
HAX				1		2	2						2	2	4
HBX					1	1	2		1	1			2	1	
HCO	2	2	5	2	3	4	3	6	3	1	3	5	1		2
HIG															
HOX							1	1	1	1	1	1	1	1	1
HRY															
IOW	1	1	1	5	6	4	7	4	6	3	3	1	2	3	2
JAM		3	2	4	3	2	3	3	1	2	4	5	5	3	1
KGE				1	1	1	1	1	1			1	1	2	4
KQN								1				1		1	1
KWM									1						1
LAN		1	2	3	1	3	2	1	2	2	4	5	1	2	3

Logs from VA (3 of 4)

Logs from 71 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
LDN	14	20	15	13	18	22	24	21	22	20	10	16	14	12	13
LEE					1										
LEX														1	
LSA			1	1		2			1	2	2	1	2	2	3
LUN															
LYX			3	1			1	1	1	1	1	1	1	1	2
MAD			1	1	1								1	1	
MAT					1		1	1	2	1	1	1	2	2	
MAX			1							1			1	1	1
MEC		1										1			
MID				1											
Mobile	24	55	39	37	47	43	39	40	45	30	39	42	25	38	20
MON	1	1	1	3		2	2	3	2	1	3	2	1	2	2
MPX									1			1			
MVX			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		2
NHA															
NNX							1	1	2	3	2	2	2	2	1
NOT															
NRX					1										
NUM	2	2	2	3	1	3	5	7	9	9	7	6	6	4	5
ORG					1	2	4	2	4	3	2	3	2	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	1
PQX														1	1
PRE															1
PRG	1							8							1
PRW	2	6	11	7	6	7	4	8	11	8	13	13	16	14	17

Logs from VA (4 of 4)

Logs from 71 C&IC
Down 1 from last year



QTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
PUL		1										1		1	
RAP									1						
RAX									1		1		1		
RBR									1	1	1		1	2	1
RHM			1	1	1	1	2	1	2	3	2	2	1	1	2
RIC	1														
RIX			2		1	1								1	
ROA	2	1	4	6	1	2	5	1	1	2	3	3	3	2	6
ROX						1	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	1
SCO	1	1	1		1								1		
SHA					1		2								1
SHE		1	1	1	1		1	3	3	2	4	3	5	3	3
SMY		3			1		2	1		1		1	1	1	
SPO			2	1	2	2	2	3	2	2	1	3	1	2	4
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	1
SUS							1	1							
SUX						1			2	3	3	2	4	3	3
TAZ					1							2	1		
VBX		7	6	6	6	4	3	4	6	4	5	9	4	4	4
WAR	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
WAS											1	1	1	2	1
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	3
WMX	1			1	1	1	1	2	1	2	1				
WYT					1		1			1	1	1	2	1	1
YOR			2	2	1	1	1	1		1	1	1	1	2	3

Logging Programs

Logging programs with 3 or more users.

Program	07	08	09	10	11	12	13	14	15	16	17	18	19
N1MM	39	50	69	75	94	118	121	139	142	153	161	171	203
N3FJP VA QSO Party	98	113	127	104	118	112	128	117	126	136	136	130	157
WA7BNM Web2Cab												17	33
Fat Fingers	38	11	15	24	34	38	20		23	29	29	24	19
Paper	81	63	60	46	36	46	48	45	39	48	27	17	15
WriteLog	23	24	19	15	20	11	6	9	10	8	14	11	7
GenLog	9	11	10	13	12	7	10	6	7	12	9	10	7
VA QSO LOGGER	32	12	6	4	8	6	4		3	3	6	4	3

N1MM and N3FJP remain most popular.

WA7BNM Web2Cab becoming useful, probably to casual operators.

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	19
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	89790
Non-Virginia contacts	1/3	1/3	1/3	1/3	1/3	1/3	26%		27%	23%	22%	28%	30%	29%	27%
States Contacted		50	50	50	50	50	50	50	50	50	50	50		48	50
Provinces Contacted		10	10	14	11	12	12	12	11	12	12	13	10	10	13
DX Entities	~41	68	112	118		119				4%	1%	2%	2%	2%	2%
C&C Not Activated	17	7	6	2	1	3	5	5	4	3	0	3	2	4	1
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	6713 FAU

QSO Analysis

Missing C&IC by Year



C&IC	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
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			
Greensville													X	
Highland (HIG)				X				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	2019
CW	9,660	13,137	8,553	12,452	12,108	8,392	10,607	8,100	10,518	12,920
DG	885	1,308	543	600	274	150	709	183	970	294
PH	35,927	39,276	35,692	37,768	39,417	37,250	38,334	31,656	30,204	31,681
Grand Total	46,472	53,721	44,788	50,820	51,799	45,792	49,660	39,939	41,699	44,895

Digital is disappearing!

Band QSOs

Band	2016	2017	2018	2019
160M	119	294	42	198
80M	11,008	16,924	22,055	25,179
40M	29,319	13,222	12,556	13,380
20M	6,074	5,082	4,232	3,361
15M	430	269	189	221
10M	65	271	68	152
6M	146	345	77	164
2M	1,565	2,401	1,458	1,559
1.25M	280	331	98	149
70cm	525	795	821	526
33cm	128			
30M			74	
17M			1	
12M			1	
Grand Total	49,660	39,939	41,669	44,895

Continuing shift to 80M.

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	2019
Accomack	150	156	37	3	109	710	106	592	13	64	134	325	395	151	339
Albemarle	7	84	189	586	172	826	1583	727	933	712	1017	899	844	342	290
Alexandria *	215	145	171	29	316	462	640	447	222	487	334	324	146	221	552
Alleghany	2	11	120	58	63	53	26	67	57	39	90	63	59	57	88
Amelia	26	60	1	53	18	1	0	2	70	1	262	5	35	3	56
Amherst	42	54	582	151	834	426	347	20	9	128	288	234	289	2	1662
Appomattox	0	35	48	39	67	3	18	245	5	1	336	198	71	32	65
Arlington	344	411	614	158	262	506	1422	1773	1719	1766	1872	1591	1148	1084	1149
Augusta	4	40	532	604	601	827	1062	1324	2145	1104	1789	2511	1808	1520	1946
Bath	85	124	310	944	862	359	13	517	4	1017	15	512	90	333	301
Bedford	61	539	1208	663	737	584	961	783	2130	1117	1424	560	950	885	738
Bedford *	24	21	63	49	35	73	62	95	84	n/a	n/a	n/a	n/a	2	1
Bland	0	4	2	32	4	2	28	0	118	8	64	1	62	29	68
Botetourt	1	18	49	113	49	62	245	200	414	520	659	511	124	128	32
Bristol *	0	9	0	5	6	10	63	461	796	781	686	392	670	309	363
Brunswick	31	46	3	60	23	28	29	2	27	21	35	14	25	7	99
Buchanan	2	2	1	0	1	0	25	0	203	19	22	40	4	20	3
Buckingham	74	113	34	62	20	0	845	9	0	197	117	33	63	21	112
Buena Vista *	1	2	56	71	56	84	12	127	79	2	104	32	218	24	19
Campbell	4	58	169	129	89	142	577	322	1158	787	615	231	243	133	348
Caroline	5	24	51	85	35	17	434	356	162	524	387	1036	88	107	705
Carroll	8	201	144	574	238	87	654	337	196	547	559	424	556	416	606
Charles City	0	5	0	53	189	194	27	57	199	164	5	14	7	97	87

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	2019
Charlotte	20	33	0	69	28	5	7	14	46	2	234	122	22	24	81
Charlottesville *	1	20	80	59	23	106	186	214	198	139	165	184	79	128	132
Chesapeake *	15	185	715	433	234	728	1404	1234	1162	865	1419	1736	1036	798	1537
Chesterfield	58	76	193	639	306	132	640	1249	887	773	706	737	159	623	460
Clarke	127	348	403	645	222	220	316	468	335	343	3638	3702	466	4123	3800
Colonial Heights *	0	3	13	72	2	1	0	2	62	0	287	93	18	82	238
Covington *	25	86	398	153	132	118	111	86	6	645	521	243	808	930	704
Craig	1	9	128	106	104	242	89	561	479	519	81	74	25	52	5
Culpeper	531	1164	1320	2212	2835	2516	2809	2424	2090	2260	2695	1608	1808	2356	2035
Cumberland	86	116	9	45	14	4	35	4	15	6	438	71	1048	29	1183
Danville *	0	0	34	1	115	184	163	50	9	1	104	34	50	31	101
Dickenson	47	30	242	45	458	156	130	48	243	170	73		35	17	6
Dinwiddie	26	1	18	53	22	628	200	173	288	129	592	129	42	20	240
Emporia *	18	37	11	56	22	24	20	0	21	9	152	14	14	0	170
Essex	0	552	12	166	29	0	45	201	22	138	55	90	0	67	67
Fairfax	1545	1304	3602	1933	3113	3142	4274	2192	4005	3428	2777	2354	2437	1792	2313
Fairfax *	82	143	415	162	326	146	223	370	491	260	139	217	244	303	421
Falls Church *	63	90	66	1	78	12	1	142	17	4	227	41	224	128	38
Fauquier	1550	3936	5434	5272	8804	5970	8476	6269	6528	9013	5025	7058	8815	6919	6713
Floyd	80	124	26	87	308	169	295	230	110	87	121	109	46	0	41
Fluvanna	42	105	95	87	70	52	62	381	221	860	473	918	1279	453	574
Franklin	144	844	584	626	579	694	1184	1130	1302	859	1050	720	241	703	1180
Franklin *	15	58	28	84	44	68	230	94	72	55	13	18	11	8	80

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	2019
Frederick	86	322	948	149	405	359	615	970	710	1571	923	1259	936	1410	899
Fredericksburg *	132	881	1222	233	52	676	52	445	814	2163	89	1261	318	165	357
Galax *	3	1	37	36	47	60	171	20	157	56	127	3	53	38	34
Giles	222	405	44	392	448	265	626	316	281	458	251	127	70	90	97
Gloucester	3	7	114	211	81	126	2	256	345	56	665	619	320	863	427
Goochland	2789	2562	4605	4346	3772	3527	2898	3100	1721	1925	3	1541	1302	457	137
Grayson	9	11	48	86	8	37	84	26	109	64	36		54	41	322
Greene	98	305	542	427	456	538	624	493	456	730	731	72	150	135	82
Greensville	21	29	11	50	20	20	26	9	19	41	225	39	33	0	125
Halifax	49	26	30	66	18	561	626	54	79	8	195	111	92	48	142
Hampton *	6	24	47	319	51	546	831	3	29	100	378	80	188	316	450
Hanover	352	151	1154	840	2063	2085	2071	949	1282	799	887	242	35	678	1059
Harrisonburg *	11	35	18	29	350	303	832	1	155	211	124	46	508	212	65
Henrico	142	222	1032	1136	652	1348	1510	1480	618	166	687	514	81	142	346
Henry	1	1	33	108	85	172	297	85	54	1	94	111	51	45	150
Highland	0	1	84	28	0	8	1	16	0	1	308	3	73	210	0
Hopewell *	1	0	6	13	18	2	159	139	248	701	467	199	369	451	418
Isle of Wight	66	124	242	573	988	2258	967	1935	1811	1341	1184	271	384	894	227
James City	15	610	760	1025	1312	239	857	885	323	360	983	1365	758	423	238
King & Queen	2	14	6	41	55	25	34	32	168	119	124	674	9	163	8
King George	24	46	86	44	311	311	991	860	1129	15	145	757	937	759	815
King William	1	16	3	63	30	3	30	27	66	101	43	45	1	90	164

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	2019
Lancaster	0	126	616	891	628	1032	984	602	1098	386	490	432	50	323	444
Lee	0	1	3	14	65	1	287	24	57	46	33	3	25	25	24
Lexington *	0	2	58	60	42	69	15	88	15	1	183	1	1	151	19
Loudoun	1299	3465	3586	4347	8629	9178	####	8463	####	####	3324	5228	3689	4095	3577
Louisa	13	42	712	711	32	196	58	136	139	748	995	1002	610	755	867
Lunenburg	12	45	9	49	72	1	49	55	90	128	192	73	136	153	162
Lynchburg *	9	42	786	322	147	53	259	168	643	240	417	129	68	1368	253
Madison	15	329	61	434	447	259	373	568	561	216	290	177	322	283	460
Manassas *	111	220	109	101	152	117	249	382	153	84	156	146	590	343	219
Manassas Park *	56	196	118	76	120	90	302	267	165	141	174	211	604	149	101
Martinsville *	0	0	60	208	62	40	258	48	442	0	400	137	225	18	136
Mathews	0	10	52	213	187	62	28	200	305	222	292	630	1120	888	7
Mecklenburg	38	394	9	59	34	54	55	3	32	45	54	512	61	42	106
Middlesex	1	13	47	304	186	24	14	16	12	102	19	10	2	131	2
Montgomery	118	1280	1817	1751	213	1197	613	612	598	1016	345	363	415	824	362
Nelson	10	111	287	230	275	47	121	157	554	21	268	62	78	59	495
New Kent	0	12	699	329	31	12	32	161	1056	103	43	21	9	89	78
Newport News *	11	16	54	27	43	129	691	930	686	892	475	1210	839	550	431
Norfolk *	5	18	151	151	113	291	162	214	244	249	188	96	11	89	318
Northampton	3	0	132	15	187	137	1	55	0	5	9	5	0	3	67
Northumberland	23	140	195	267	145	976	2038	2307	2711	3154	3023	2643	1461	1356	1387
Norton *	1	2	0	0	28	7	25	22	34	57	50	1	49	17	33

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	2019
Nottoway	25	61	0	27	28	2	0	0	75	30	212	127	96	65	87
Orange	9	40	175	124	500	681	284	1186	1501	1165	794	1279	831	745	973
Page	286	825	1237	910	755	627	839	778	1035	1137	1055	842	327	172	110
Patrick	107	179	3	384	409	652	707	361	225	2	505		156	16	22
Petersburg *	25	0	1	70	17	1	0	0	81	26	274	50	23	92	239
Pittsylvania	200	1	109	92	207	776	1065	63	59	34	165	96	38	114	101
Poquoson *	7	0	27	10	21	11	0	1	11	12	487	566	7	286	8
Portsmouth *	38	34	108	146	123	69	31	43	88	98	103	187	46	115	78
Powhatan	54	1166	2223	1919	1157	1922	15	4	12	25	167	15	3	3	142
Prince Edward	47	91	20	51	54	3	27	151	209	8	278	80	76	57	631
Prince George	333	3	19	60	46	25	10	3	76	27	265	81	15	109	281
Prince William	396	1166	3031	2125	974	2580	2728	2498	1447	1914	3537	2636	2321	3469	2667
Pulaski	7	288	4	30	2	30	42	6	262	93	90	57	45	655	74
Radford *	4	5	1	21	4	54	51	72	66	22	32	21	164	35	32
Rappahannock	79	440	274	896	298	491	335	756	649	426	413	133	829	207	399
Richmond	364	65	23	87	68	7	46	107	4	81	83	129	1	90	8
Richmond *	19	14	201	36	77	78	169	34	60	0	132	148	4	174	152
Roanoke	44	93	409	217	144	416	593	634	250	403	366	357	375	161	588
Roanoke *	10	17	208	225	108	990	801	243	65	91	71	35	30	24	104
Rockbridge	0	37	76	103	177	125	86	226	278	293	650	7	376	435	1023
Rockingham	19	108	370	562	677	710	1036	798	948	1431	1533	1085	351	196	862
Russell	0	51	47	34	215	393	98	52	286	180	203	112	98	61	84

Contacts in Counties and Independent Cities (6 of 6)

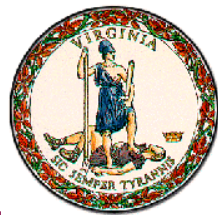


C&C	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Salem *	3	20	127	499	136	453	75	409	280	312	68	349	64	134	161
Scott	53	91	77	61	186	59	104	46	206	48	109	9	276	36	53
Shenandoah	48	200	216	64	36	71	129	653	295	472	520	621	396	503	583
Smyth	0	1153	2	9	211	5	428	253	0	434	32	574	260	174	155
Southampton	14	37	15	65	114	37	817	10	7	26	32	62	20	0	162
Spotsylvania	20	92	325	199	409	161	397	443	428	506	173	356	107	533	1088
Stafford	1193	1623	1295	1671	1020	131	153	1235	341	100	332	467	56	301	197
Staunton *	13	35	86	64	58	43	43	22	18	2	152	558	294	7	42
Suffolk *	1	41	7	44	87	66	37	59	306	154	645	496	344	329	594
Surry	0	1	1	22	182	205	352	237	202	192	348	57	92	251	80
Sussex	12	5	6	63	30	43	1020	5	5	8	181	67	3	4	160
Tazewell	36	0	26	52	489	70	177	16	233	168	114	530	177	27	89
Virginia Beach *	9	2421	1083	993	1029	1897	360	506	715	236	1330	2216	262	440	462
Warren	83	357	316	415	205	454	670	832	515	770	484	418	973	561	339
Washington	3	19	10	10	159	12	116	52	43	199	416	225	127	329	213
Waynesboro *	38	56	424	266	352	508	390	273	418	1114	533	677	467	361	32
Westmoreland	6	89	23	25	30	396	31	50	79	106	89	164	1	315	6
Williamsburg *	1	3	92	134	85	103	76	115	80	595	61	3	3	103	4
Winchester *	21	89	163	103	9	107	654	1099	661	214	188	237	240	1080	237
Wise	11	3	144	711	902	1240	1293	40	109	112	102	4	52	32	142
Wythe	5	3	0	45	175	52	226	20	75	1064	1176	1030	1691	955	1117
York	2	35	368	462	382	169	352	310	59	558	402	641	149	338	213

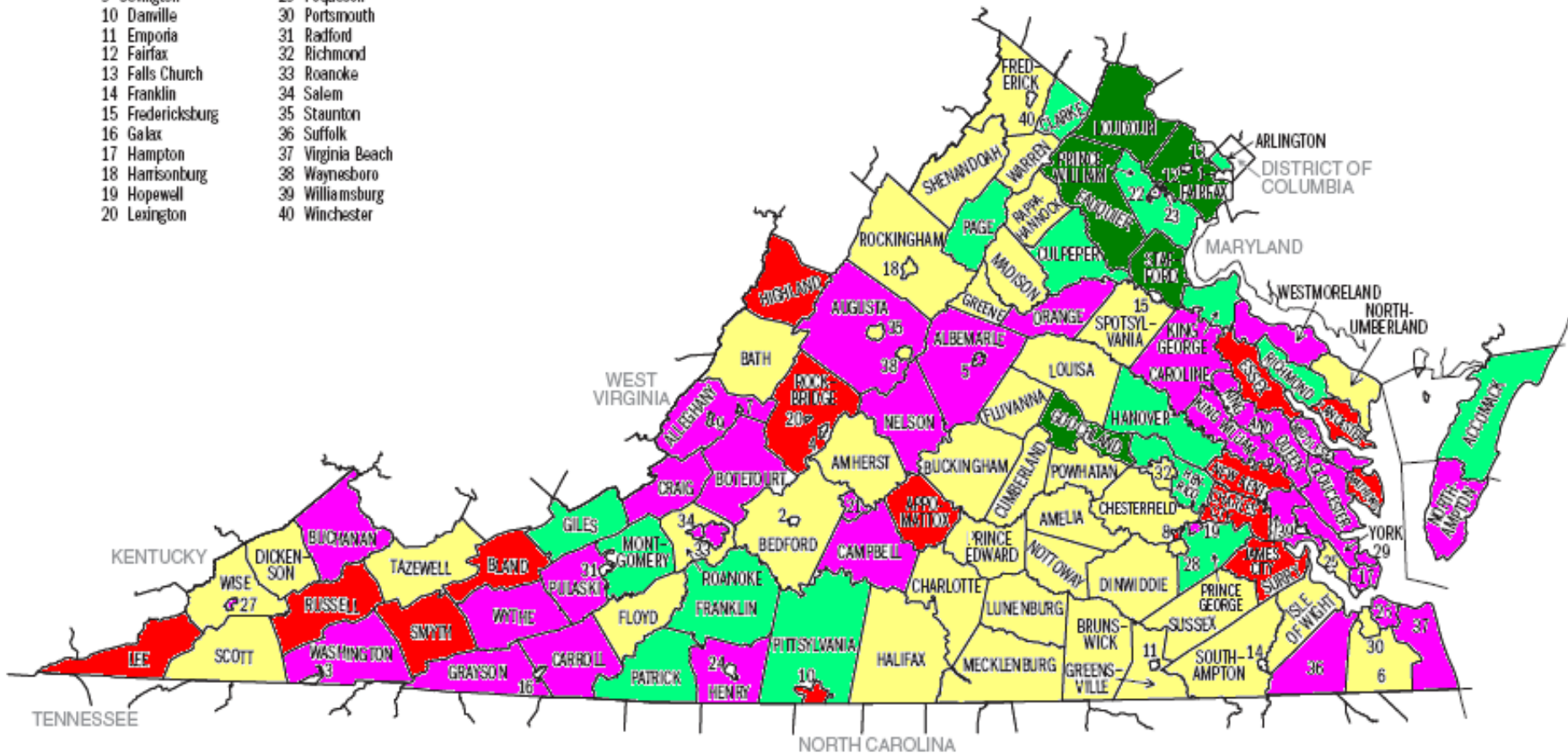
Counties and Independent Cities Activated



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1-10	38	24	20	7	8	18	6	15	8	18	3	13	14	9	11
11-100	55	55	45	58	51	39	41	36	40	31	27	34	48	39	34
101-1000	18	37	48	56	64	60	64	61	62	61	85	62	55	70	71
>1000	5	11	15	11	10	14	18	17	20	20	18	21	14	12	17



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| 1 Alexandria | 21 Lynchburg |
| 2 Bedford | 22 Manassas |
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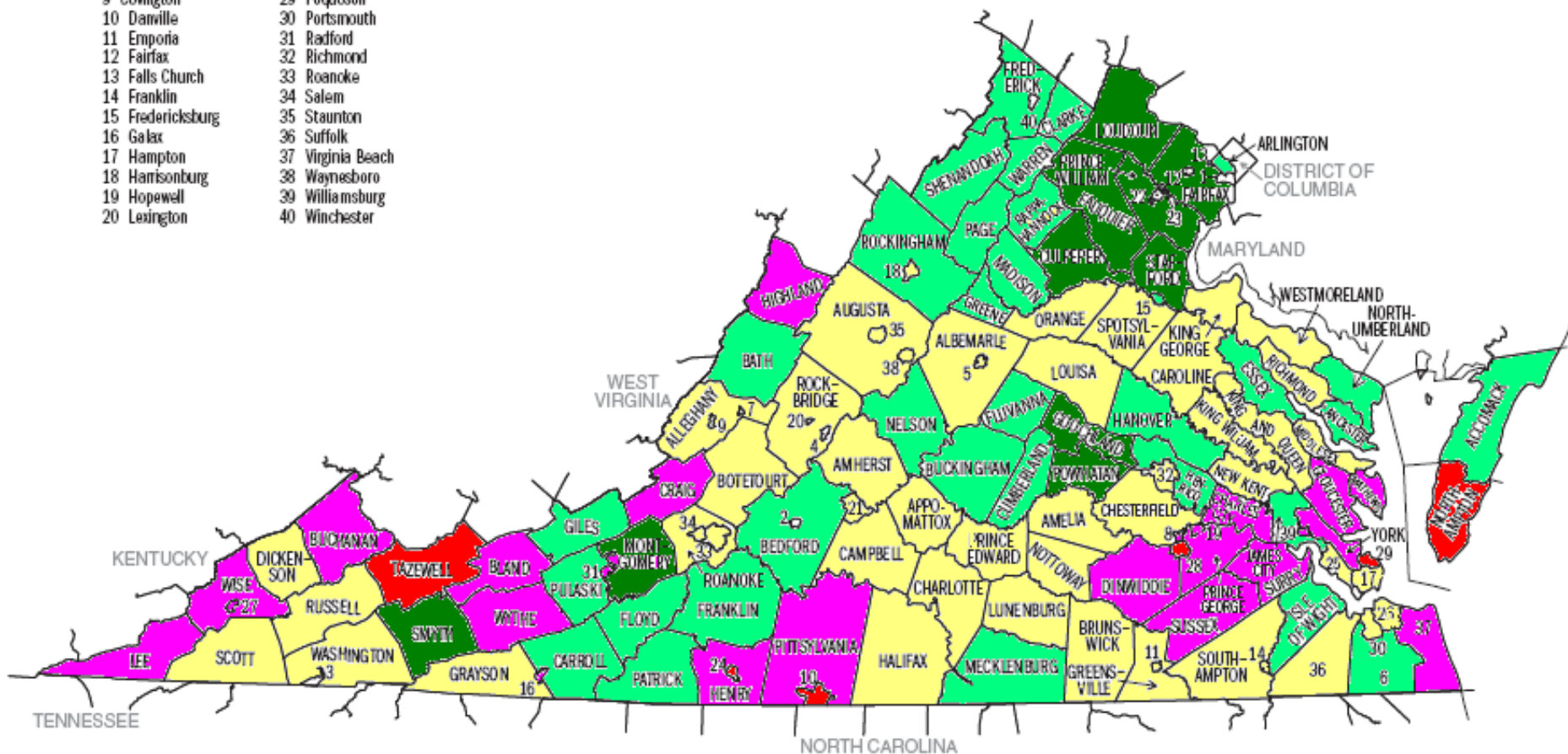


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2006 QSO Contact Analysis

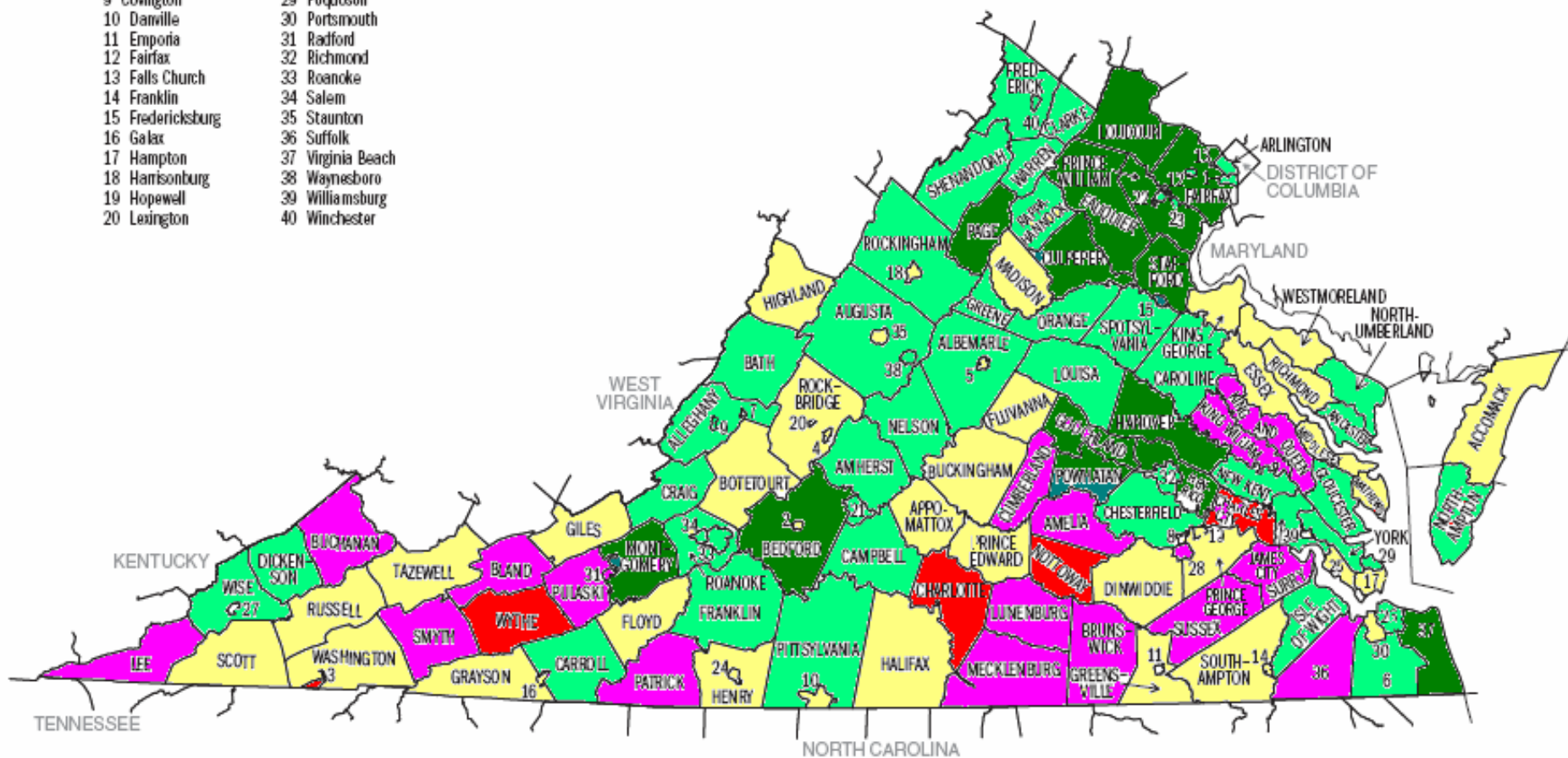


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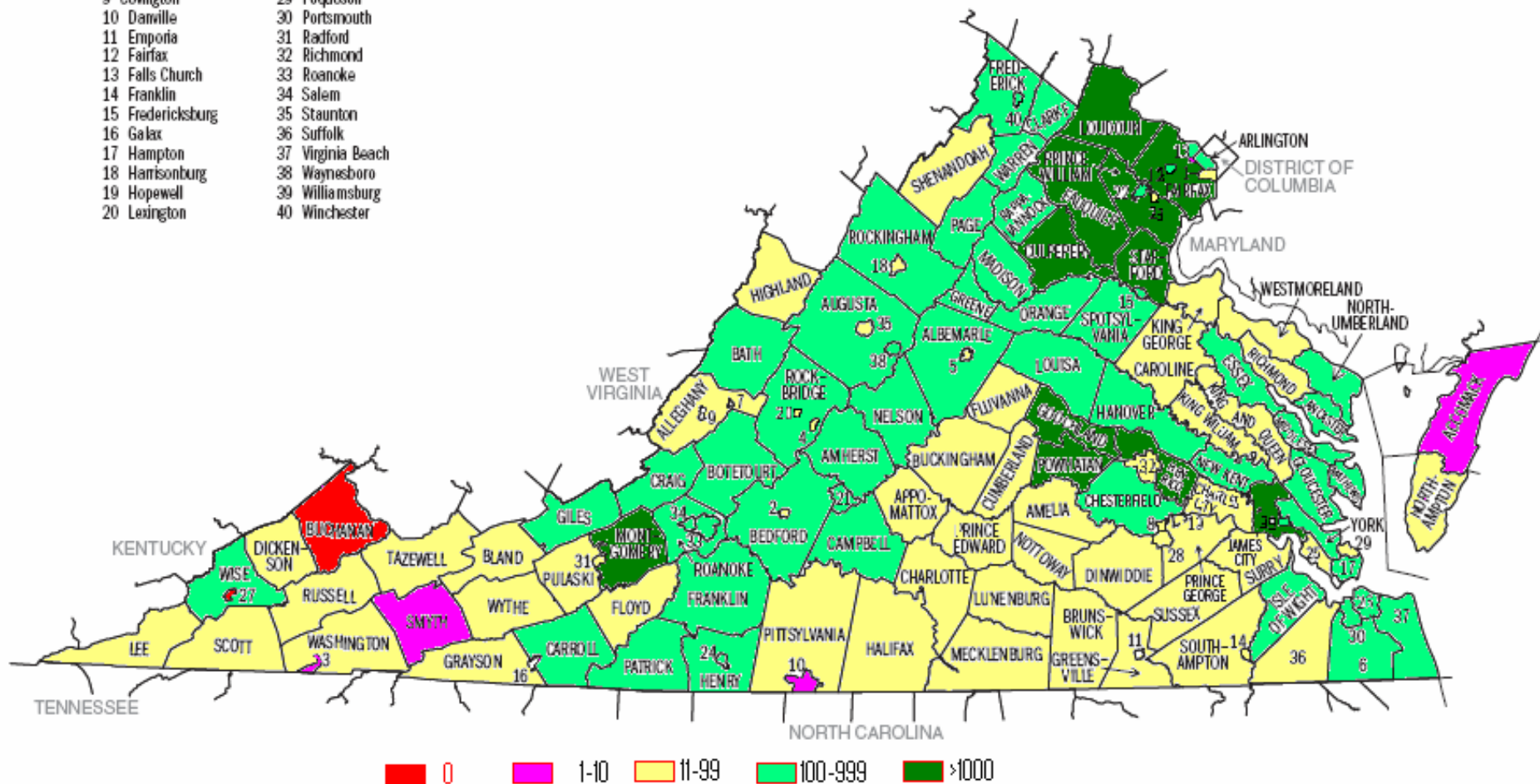
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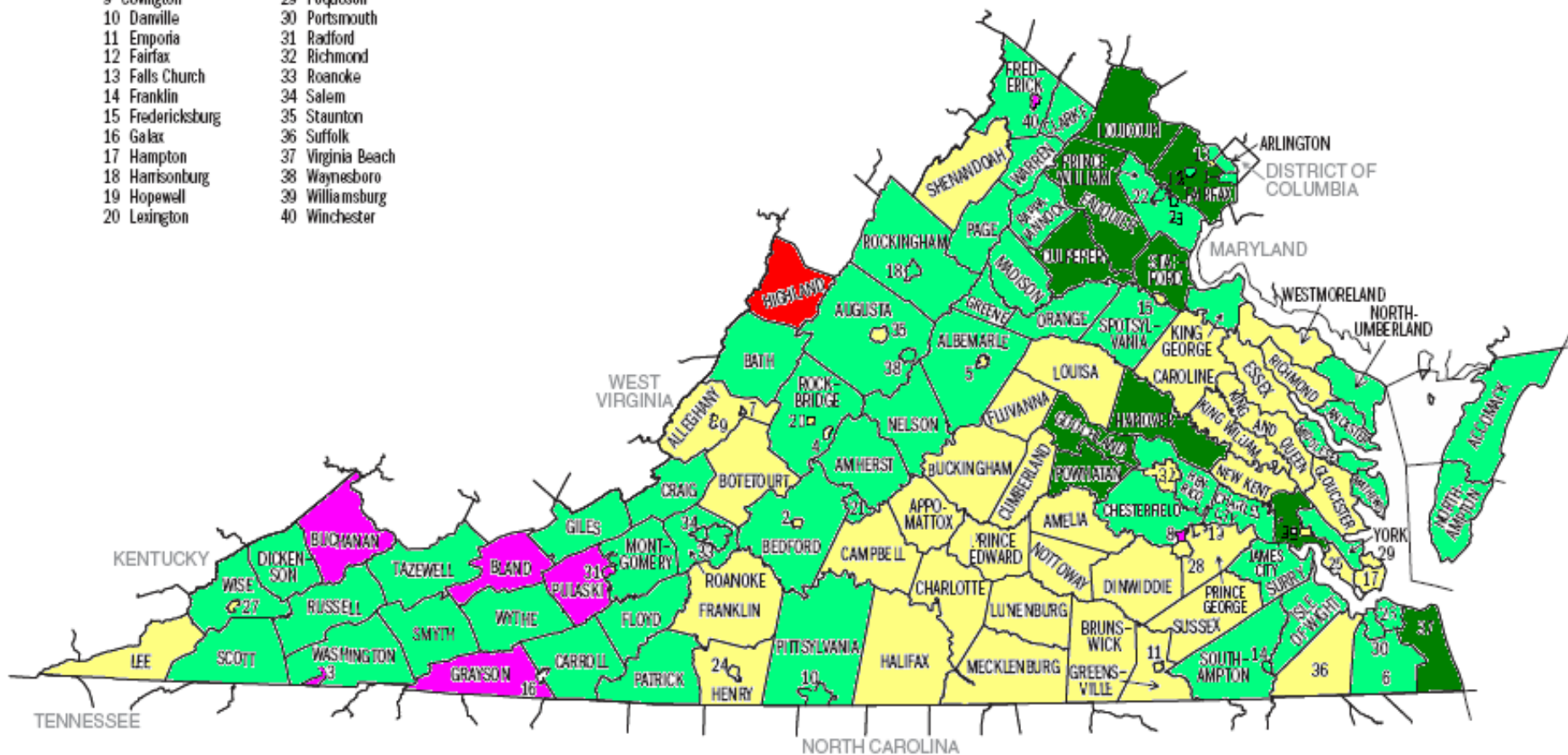


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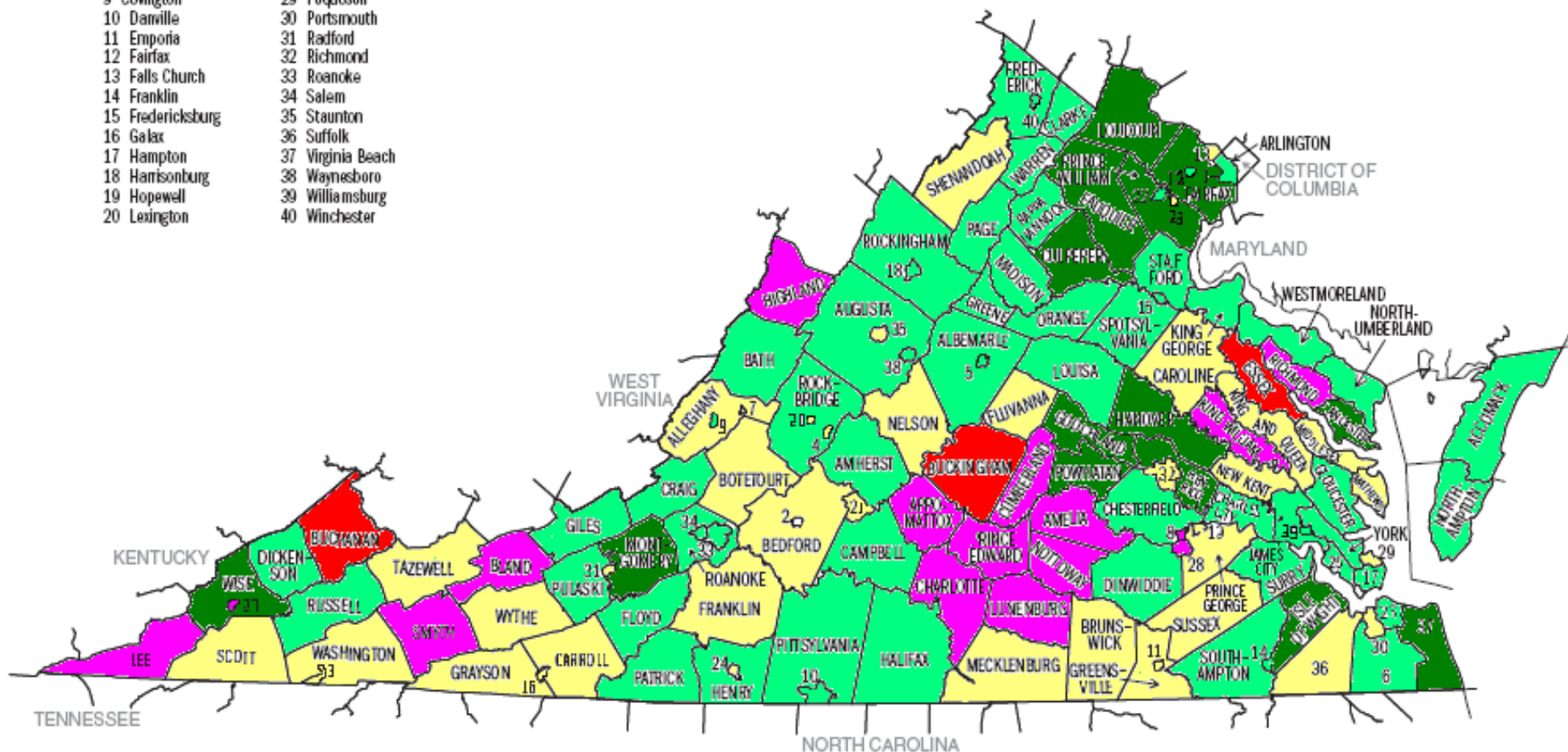


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2010 QSO Contact Analysis



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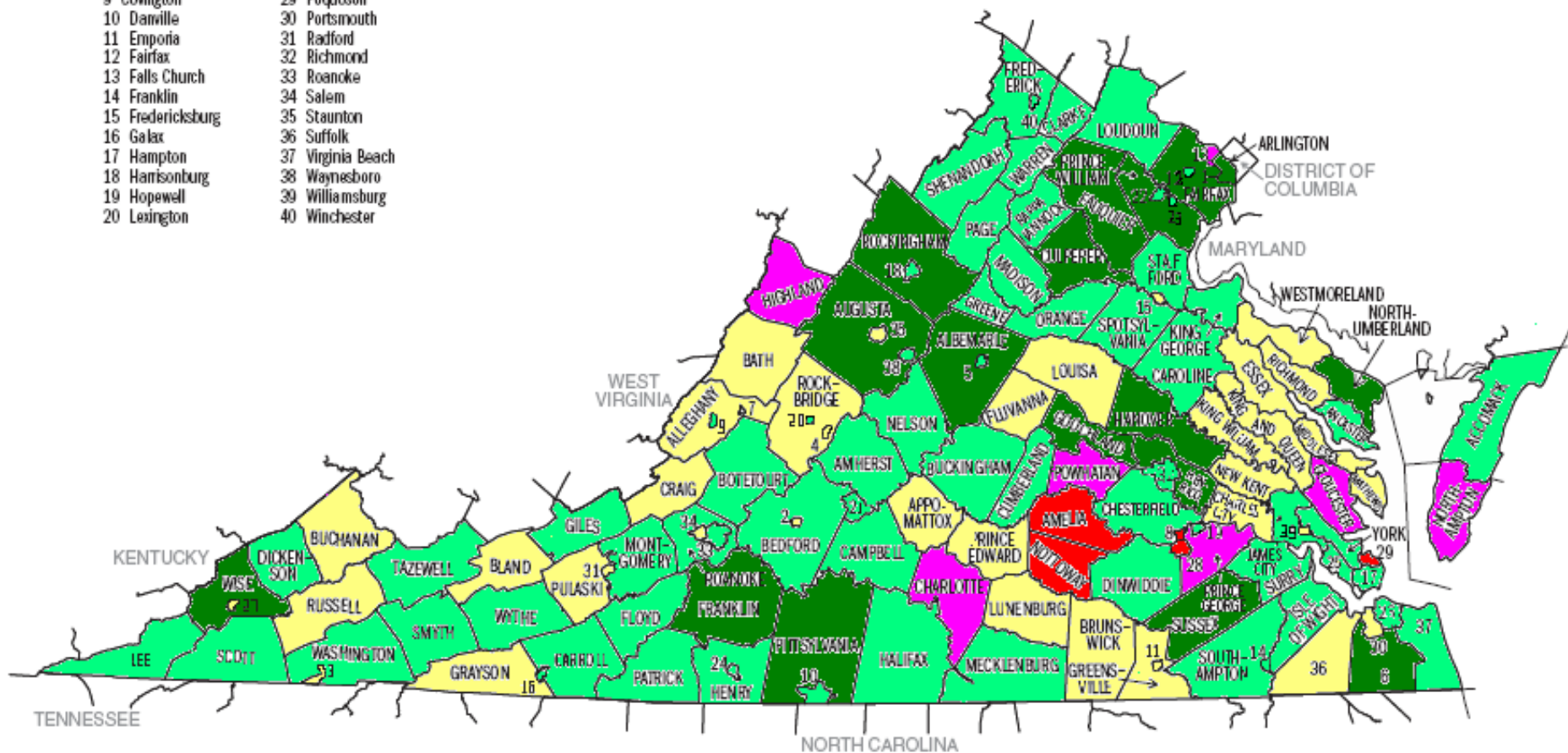


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2011 QSO Contact Analysis

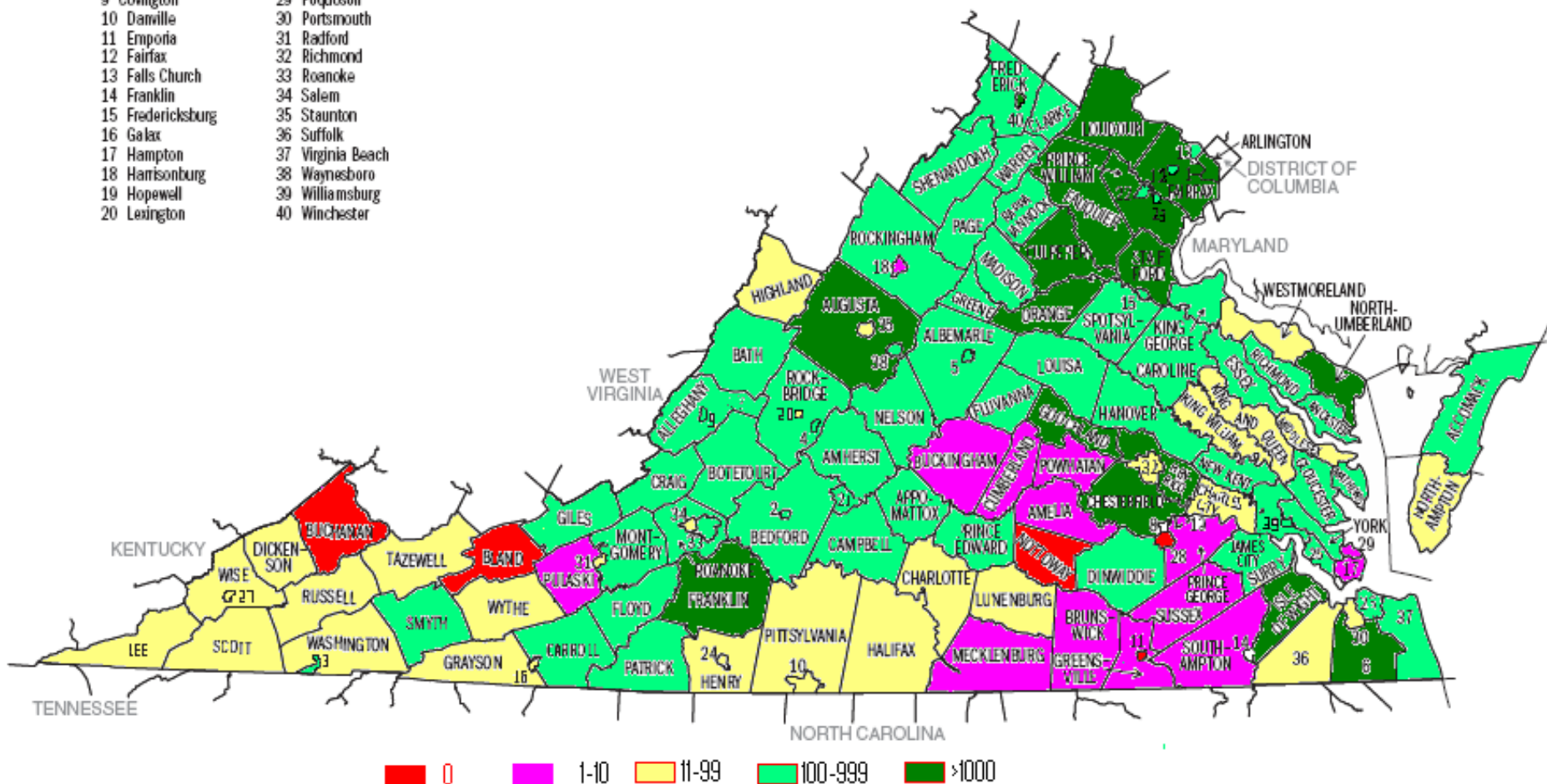


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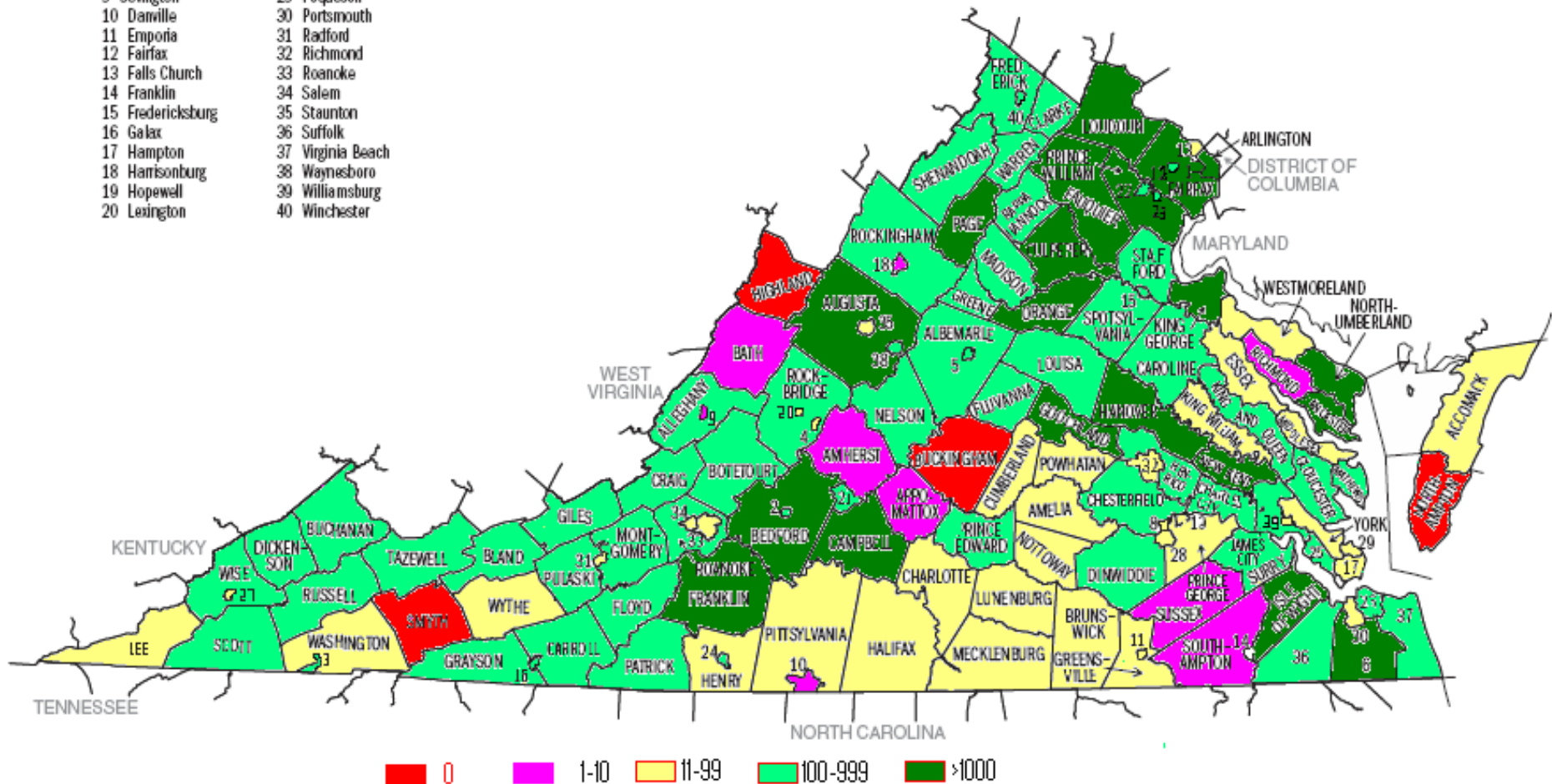


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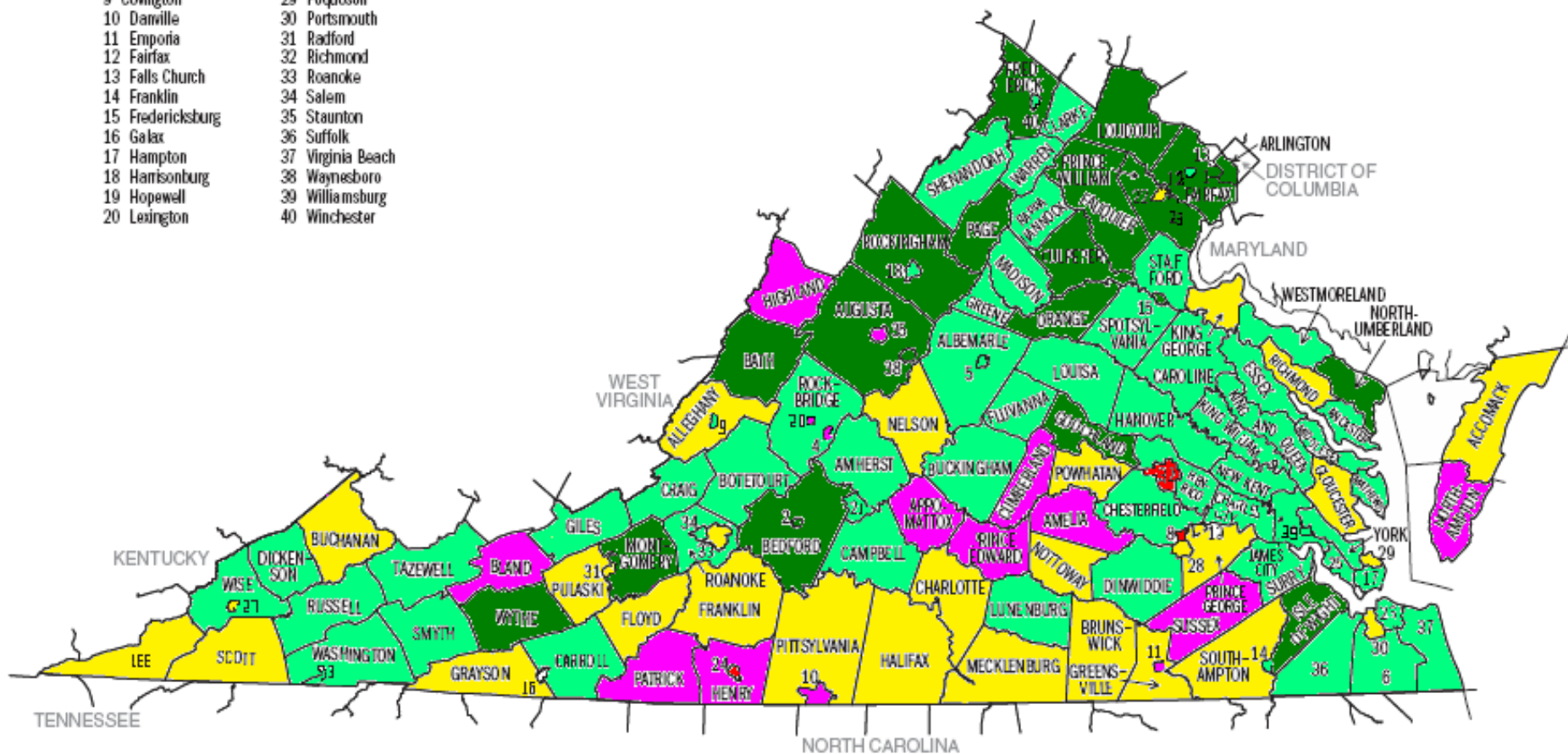
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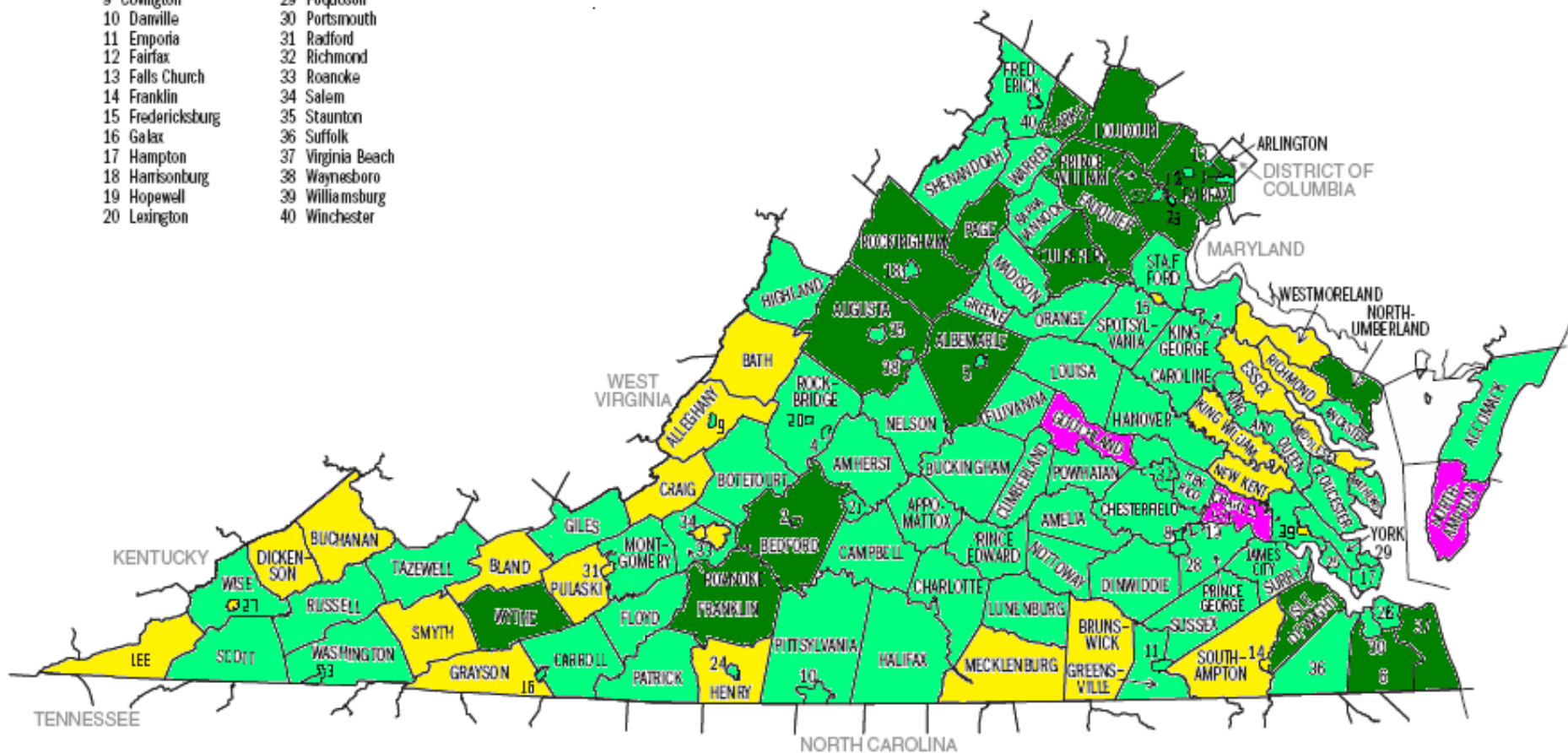


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2015 QSO Contact Analysis

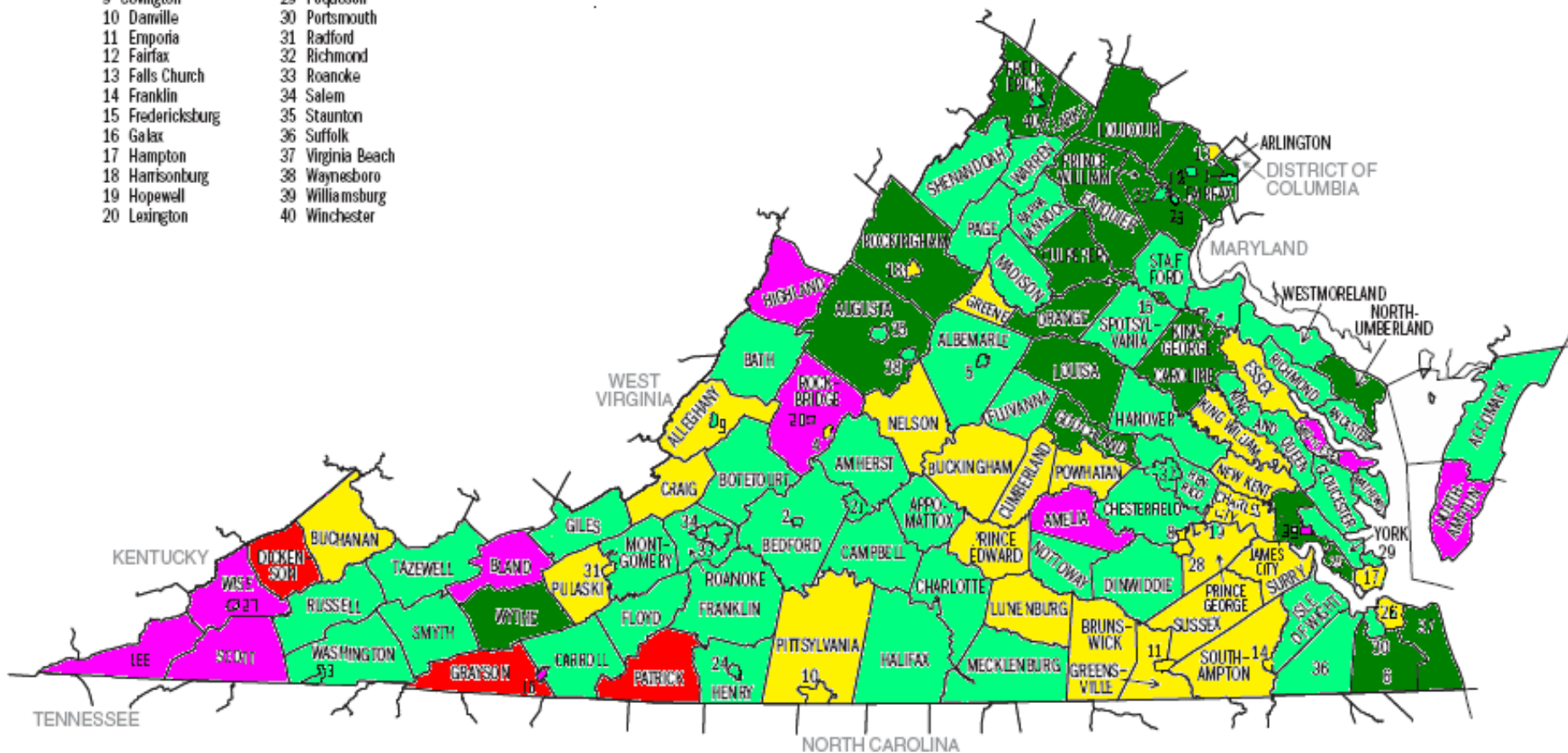


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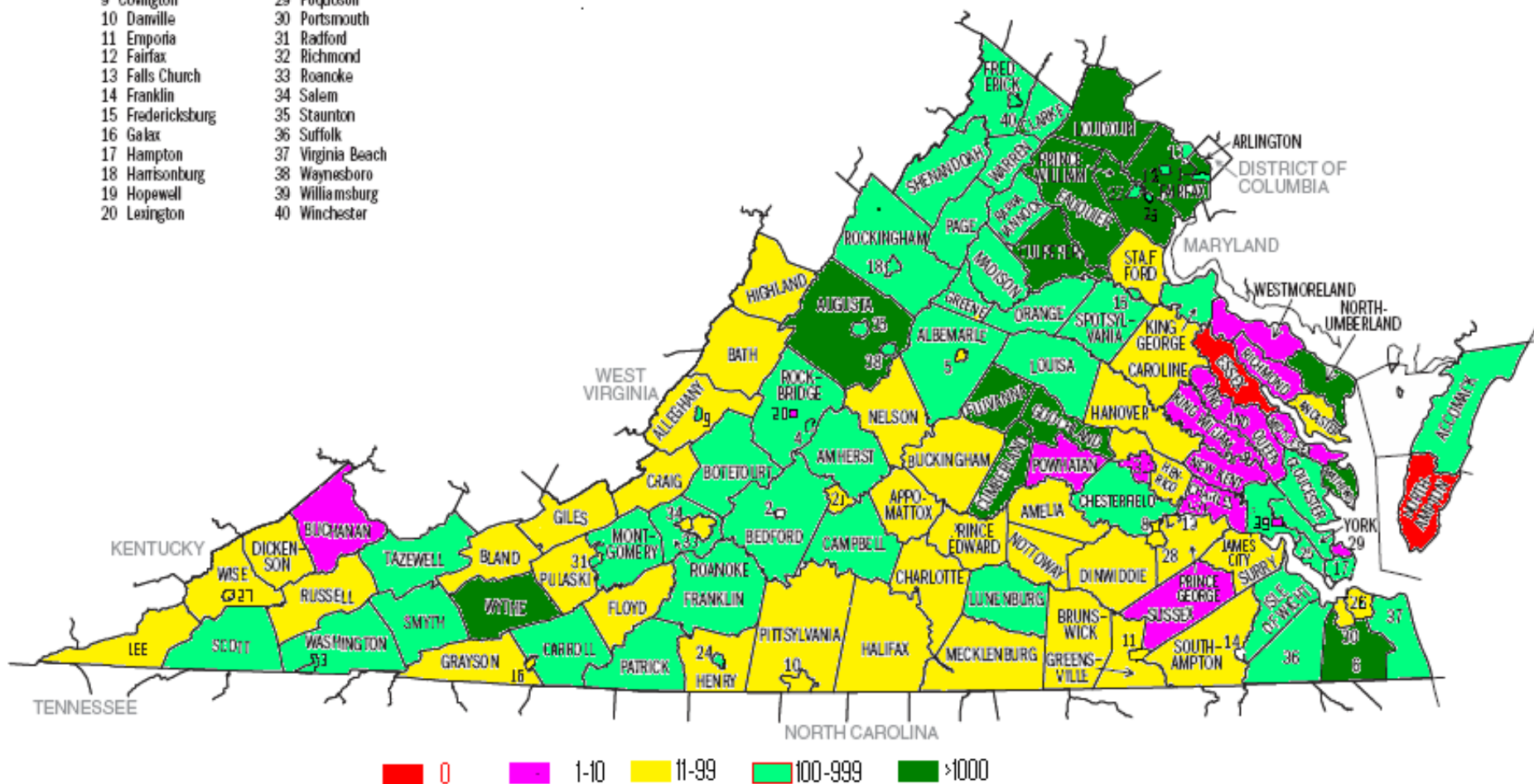
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| 9 Covington | 29 Poquoson |
| 10 Danville | 30 Portsmouth |
| 11 Emporia | 31 Radford |
| 12 Fairfax | 32 Richmond |
| 13 Falls Church | 33 Roanoke |
| 14 Franklin | 34 Salem |
| 15 Fredericksburg | 35 Staunton |
| 16 Galax | 36 Suffolk |
| 17 Hampton | 37 Virginia Beach |
| 18 Harrisonburg | 38 Waynesboro |
| 19 Hopewell | 39 Williamsburg |
| 20 Lexington | 40 Winchester |

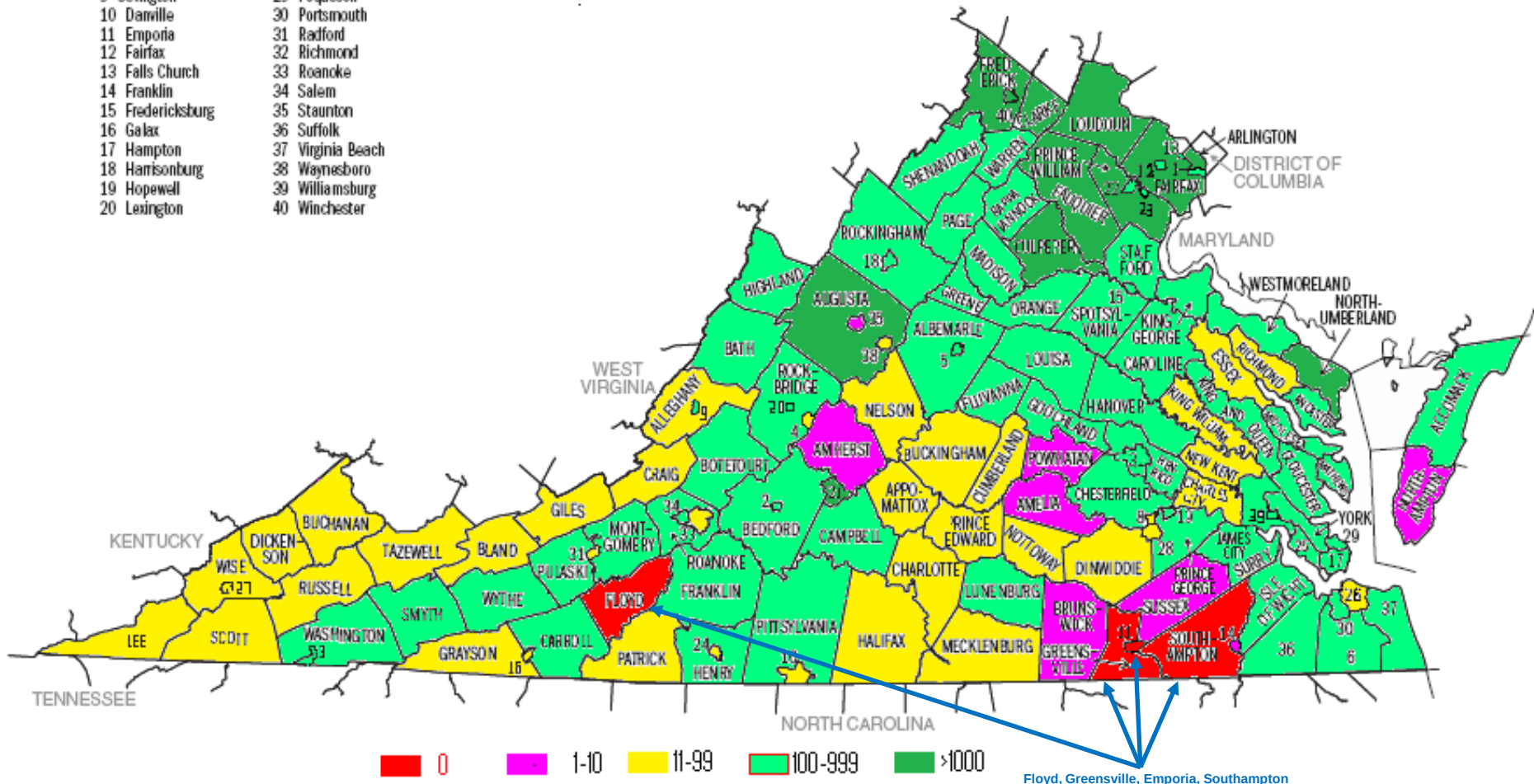


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| 1 Alexandria | 21 Lynchburg |
| 2 Bedford | 22 Manassas |
| 3 Bristol | 23 Manassas Park |
| 4 Buena Vista | 24 Martinsville |
| 5 Charlottesville | 25 Newport News |
| 6 Chesapeake | 26 Norfolk |
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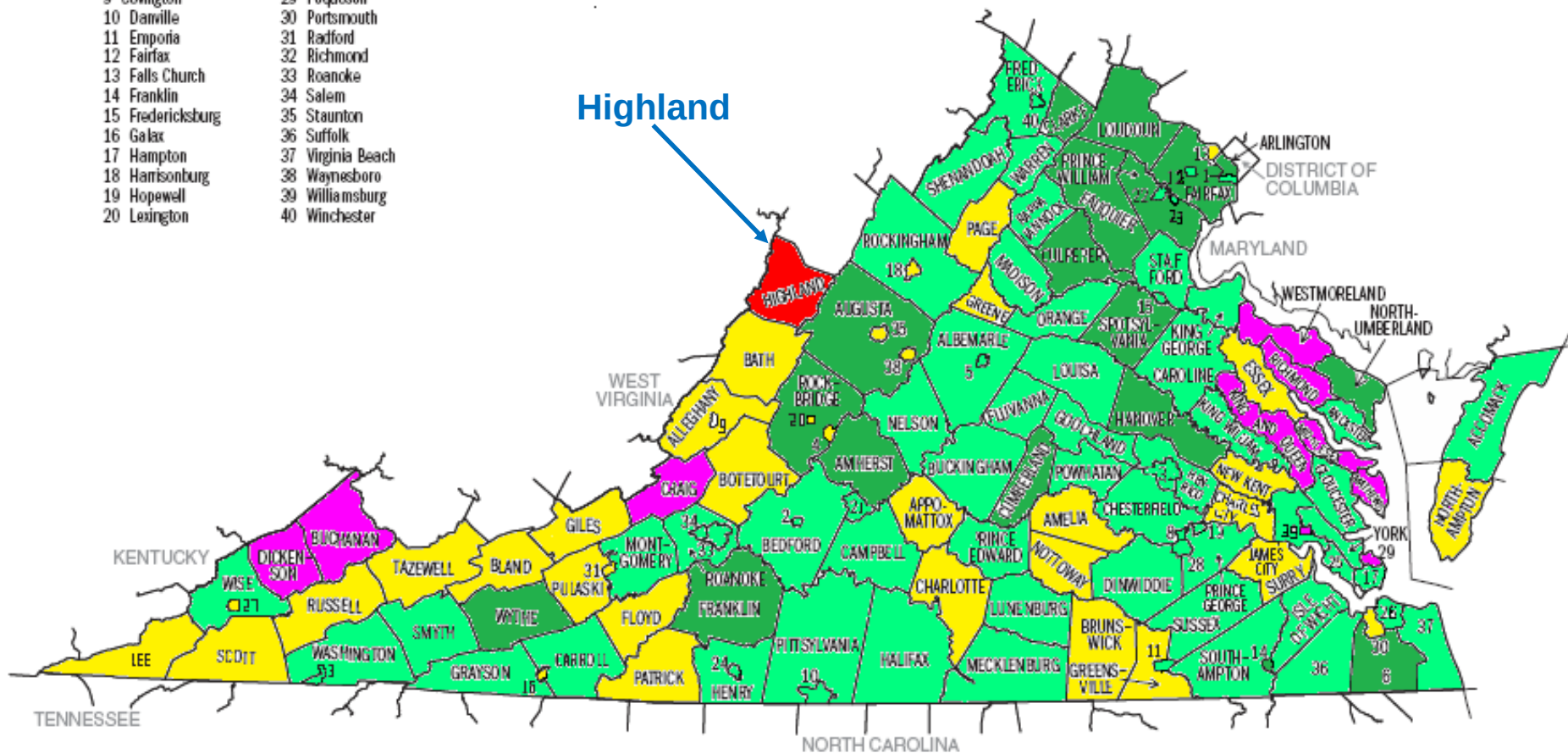
Floyd, Greenville, Emporia, Southampton

2019 QSO Contact Analysis



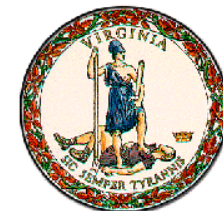
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Highland



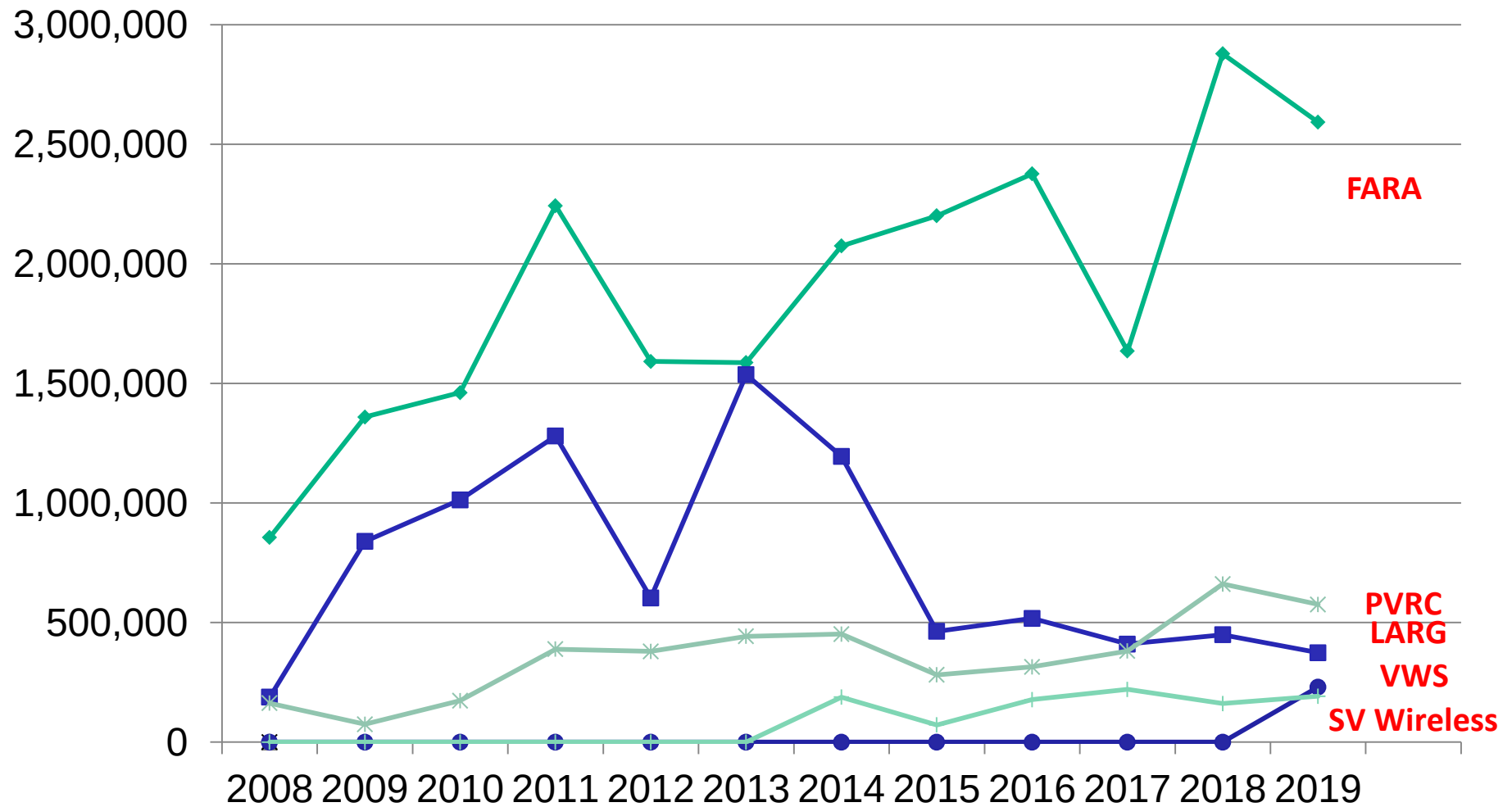
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2019 High Club - Combined Score



FARA	2,592,412	Swamp Fox Contest Club	21,442	Kentucky Contest Group	1,496
Non-stated	736,917	Culpeper Amateur Radio Association CARA	18,252	Central Texas DX and Contest Club	1,232
PVRC	575,897	South East Contest Club	15,916	Southern Peninsula Amateur Radio Klub	1,050
LARG	373,877	Yankee Clipper CC	15,366	DFW Contest Group	1,019
VWS	230,449	Rappahannock Amateur Radio Association	12,364	knightlites QRP Society - WQ4RP	850
Shenandoah Valley Wireless	191,787	Lynchburg Amateur Radio Club K4CQ	12,300	Silver Comet Amateur Radio Society	660
Alexandria RC	131,934	Williamsburg Area ARC	11,791	Florida CG	576
Mount Vernon ARC	126,660	Deep Dixie CC - Team Magnolia	9,592	DELARA Contest Team	544
Tennessee Valley DXA	111,834	Ontario Contest Club	8,896	W/K ARC	476
RARA CG	104,064	Arlington Radio Public Service Club	7,320	Minnesota Wireless Assn	451
SVARC	83,400	Alabama Contest Group	7,287	Sheboygan County ARC	450
Virginia Mountain ARC	71,353	Slovak Contest Group	6,942	Mad River RC	308
Frankford RC	66,895	Great South Bay ARC	6,840	Orangepark ARC	252
Blacksburg ARS	63,490	CWops Tennessee Contest Group	6,348	Sunday Creek Amateur Radio Federation	216
CVCC	62,943	Arlington ARC	5,859	Indiana County ARC	208
Roanoke Valley ARC	56,502	Virginia Moontany ARC	5,278	Big Sky Contesters	130
Bristol TN ARC	56,469	MAPOA	5,248	QWCA Chapter 119	98
OVH	54,720	Metro DX Club	5,040	Ventura County ARS	96
SPARC	46,658	Radio Amateur Society of Norfolk	5,002	The Villages Amateur Radio Club	72
Chesapeake ARS W4CAR	45,701	K4AMG MARC	2,400	Northern California CC	62
Middle Peninsula ARC	43,888	Fort Smith Area ARC	2,280	Grand Mesa CC	50
Western Tidewater RA	41,880	Sportsmans Paradise ARC	2,256	San Diego Contest Club	50
Society of Midwest Contesters	30,993	Randolph and Tri-County	1,960	NorDX Club	49
Heritage Hunt Hams	28,287	Kansas City CC	1,596	Silver Comet Amateur Radio Society	48
Woodbridge Wireless	25,386	Albemarle ARC	1,564	St. Mary's ARC	36
Tennessee Contest Group	21,739	New Providence ARC	1,533	MT Vernon Amateur Radio Club	25

High Club - Combined Score

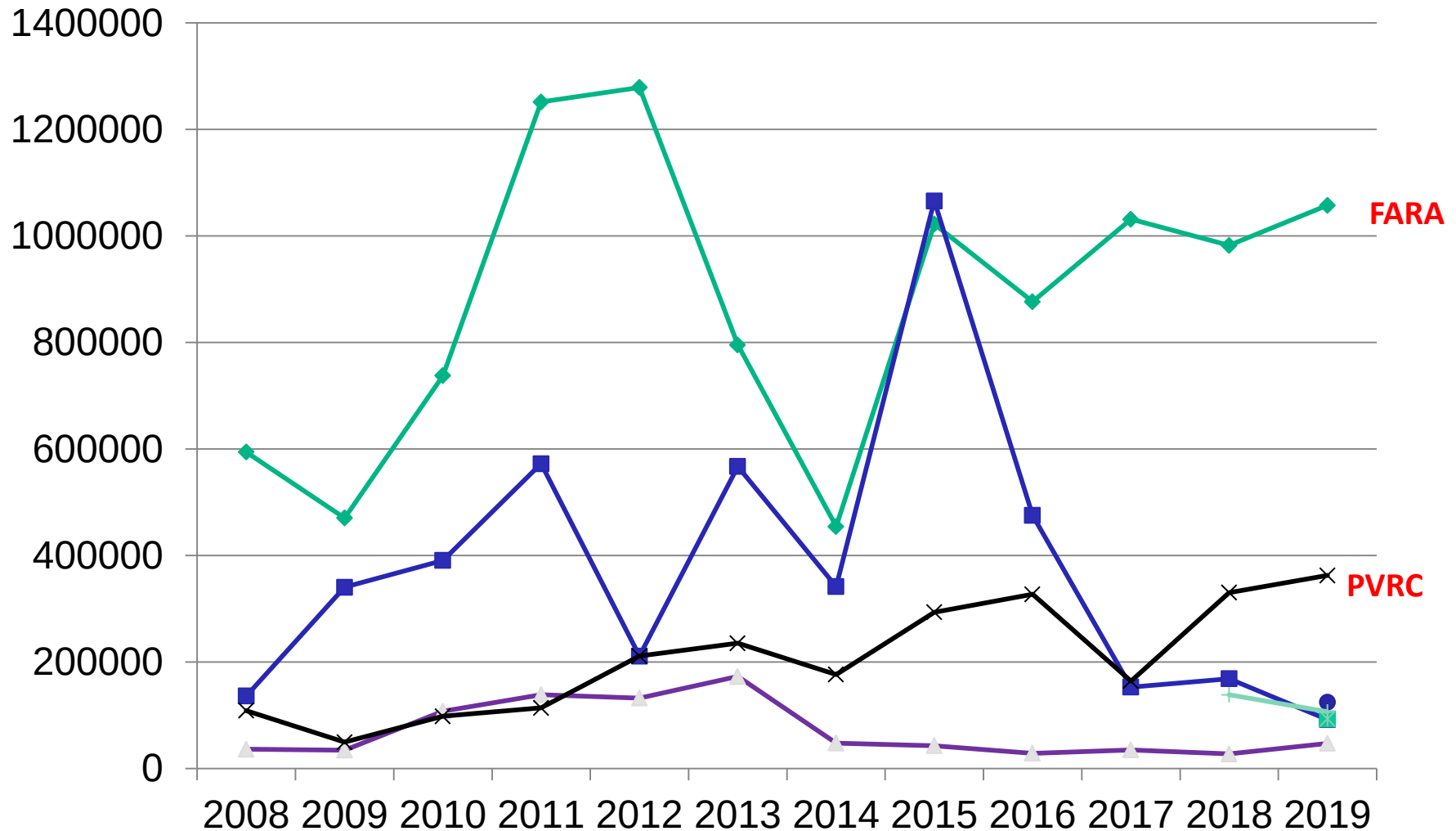


Log Counts by Club (4 or more logs)



Club	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
None Given	108	123	126	122	128	118	133	135	126	150
Fauquier ARA	35	32	27	28	29	30	30	42	45	36
Potomac Valley Radio Club	7	8	13	14	18	16	23	20	20	29
Shenandoah Valley ARC	4	6	14	12	14	7	12	16	18	20
Ole Virginia Hams	5	4	6	12	11	12	11	15	11	12
Loudoun ARG	24	25	17	28	25	19	20	13	18	11
Vienna Wireless Society	3	9	7	5	7	2	3	1	2	11
Roanoke Valley ARC	11	9	10	4	5	6	5	2	5	10
Frankford Radio Club	4	3	6	4	5	3	4	5	5	8
Sterling Park ARC	15	11	12	15	7	7	10	10	6	8
Tennessee Contest Group	5	4	4	2	3	8	6	4	4	8
Alexandria Radio Club	5	6	13	9	7	8	7	5	5	7
Heritage Hunt Hams										7
RARA Contest Group	3	5	7	18	16	14	17	5	8	7
Shenandoah Valley Wireless					6	3	7	13	7	7
Yankee Clipper Contest Club	2		3	3	3	3	4	2	7	7
Arlington ARC	4	5	3	5	9	8	9	8	6	6
Society of Midwest Contesters	2		2	2	4	2	2	7	6	6
Chesapeake ARS Inc., W4CAR	10	6	8	6	9	9	11	6	2	4
Minnesota Wireless Assn									2	4
Ontario Contest Group							5	3	2	4
Virginia Mountain ARC				2	2	2	5	2	4	4
Western Tidewater Radio Assoc	7	12	7	9	6	7	2	3	4	4

High Club – VA QSOs Only



Plaque Recipients by Club

Club	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
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	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	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	7
Not Awarded			2								1			1
Ontario Contest Club	2	2												
Olde Virginia Hams												1		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	2
South East Contest Club	1		2					1						
Sterling Park ARC					1			1				1		
Tennessee Contest Group				3										
VA DX Century Club	1													
Vienna Wireless Society														2
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		1
Kentucky CG											1			
Rappahannock Valley ARC											1			
SK4DM											1			
Swamp Fox CG											1	1	1	1
Yankee Clipper CC											2	3		



All Time High Scores

(after 2019 VQP)

5 x New High Scores

1 x Tie Score

Category	Call Sign	Score	Year	Call	2019 Score
High VA Single OP High Power	N4BAA	387,466	2006	W4GO/M	215,570
High VA Single OP Low Power	KW4VA	389,658	2011	K1HTV	238,196
High Single OP Novice/Technician/Rookie	KM4IML	74,876	2015	W4IPC	57,772
High Outside VA Single OP	K1RO	124,950	2017	K3WJV	55,862
High Outside VA Phone/Mixed QRP	WB2P	27,191	2014	WN4AFP	12,322
High VA Single-Op Phone/Mixed QRP	WA4PGM	87,440	2003	N4RP	60,534
High Single OP VHF	KK4IML	74,876	2015	KK4ZUU/M	6,998
High VA Club - Combined Score	FARA	2,878,846	2018	FARA	2,592,412
High VA Mobile Multiple Operator	WA4PGM	214,000	2008	NB3A/M	30,858
High VA Mobile Single Operator	KW4VA/M	181,529	2017	W4GO/M	215,570
High Single OP CW High Power	K0ZR	293,189	2014	K4SO	45,756
High Single OP CW Low Power	N3UA	192,572	2011	K0ZR	138,600
High Multiple Op / Single Transmitter	N4A	352,226	2008	K4HTA	21,432
High Multiple Op / Multiple Transmitter	W4MYA	1,178,532	2010	KW4VA	1,193,975
High Single Band	KJ4ADN/M	164,810	2013	K5VIP	33,705
High SO VA Counties/Independent Cities	K1RO	119	2017	W4ZAO	119
High DX Station	CU2JT	5,882	2006	OM2VL	6,942
High Single Op Digital Mode	K3VAT	49,440	2018	Not Awarded	No entries
High VA Single OP Phone Only High Power	AI2C	288,552	2013	K3SK	176,675
High VA Single OP Phone Only Low Power	KJ4ADN/M	164,810	2013	W4ZAO	130,416
High Expedition	K4EG	121,610	2011	AI4SV	144,870
High VA Club – VA QSOs Only	FARA	1,279,016	2012	FARA	1,057,563
High VA QRP CW	K4ORD	45,044	2008	WR4I	7,216
High Outside-VA QRP CW	W8TM	21,482	2008	N9SE	6,640
High Single Operator - Youth	KJ4EZA@N2VA	133,180	2016	W4IPC	57,772
High Single Operator – VA QSOs Only	K1RO	124,950	2017	W4GO/M	215,570
High Single Operator Young Adult	KK4BSM	45,475	2017	N/A	

Multiple
Plaques

W4GO
X 3

W4IPC
X 2

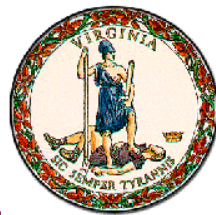


Virginia QSO Party

Certificates



Certificate Themes



- 2004 – 2010 State symbols
- 2011 – 2015 Notable Radio Items
- 2016 - VA Amateur Radio Clubs
 - 2016 Richmond Amateur Radio Club
 - 2017 Shenandoah Valley ARC
 - 2018 Fauquier Amateur Radio Association
 - 2019 Vienna Wireless Society
 - 2020 Alexandria Radio Club



2004 Virginia QSO Party



State Boat
Chesapeake Bay Deadrise

*The Sterling Park Amateur Radio Club
congratulates*



State Fossil
Chesapeake 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
Botetourt
Brunswick
Buchanan
Buckingham
Campbell
Caroline

Carroll
Charles City
Charlotte
Chesterfield
Clarke
Craig
Culpeper
Cumberland
Dickenson
Dinwiddie
Essex
Fairfax
Fauquier

Floyd
Frisvanna
Franklin
Frederick
Giles
Gloucester
Goochland
Grayson
Greene
Greensville
Halifax
Hanover
Henrico

Henry
Highland
Isle of Wight
James City
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King George
King William
Lancaster
Lee
Loudoun
Louisa
Lunenburg
Madison

Mathews
Mecklenburg
Middlesex
Montgomery
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Northampton
Northumberland
Nottoway
Orange
Page
Patrick
Pittsylvania

Powhatan
Prince Edward
Prince George
Prince William
Pulaski
Rappahannock
Richmond
Roanoke
Rockbridge
Rockingham
Russell
Scott
Shenandoah

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

Poquoson
Williamsburg
Danville
Lexington
Portsmouth
Winchester
Emporia
Lynchburg
Radford

Galax
Norfolk
Suffolk
Chesapeake
Hampton
Norton
Virginia Beach
Colonial Heights
Harrisonburg
Petersburg
Waynesboro
Covington
Hopewell

Independent Cities

Alexandria
Fairfax
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Danville
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Roanoke
Bristol
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Martinsville
Salem
Buena Vista
Fredericksburg
Newport News
Staunton
Charlottesville



2005 Virginia QSO Party



Floral Emblem
Dogwood



State Bird
Cardinal

*The Sterling Park Amateur Radio Club
congratulates*

*for promoting amateur radio activity
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Counties

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Scott
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2006 Virginia QSO Party



State Dog
American Fox Hound

*The Sterling Park Amateur Radio Club
congratulates*



State Bat
Virginia Big-Eared Bat

*for promoting amateur radio activity
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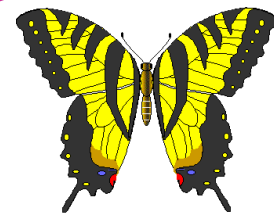
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Harrisonburg



2007 Virginia QSO Party



State Fish
Brook Trout
(adopted in 1993)



State Insect
Tiger Swallowtail Butterfly
(adopted in 1991)

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2008 Virginia QSO Party



Chincoteague Pony



Smithfield Ham

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Russell
Scott
Shenandoah

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Wise
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Harrisonburg



2009 Virginia QSO Party



Virginia Peanut



Hanover Tomato

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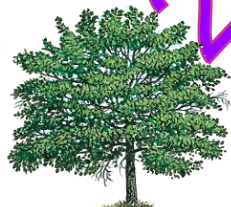
Hopewell
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Harrisonburg



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
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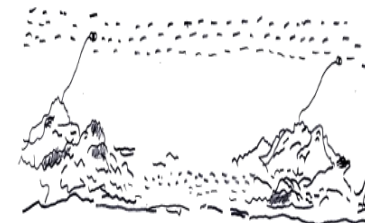


Mahlon Loomis
(1826-1886)

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

*for promoting amateur radio activity
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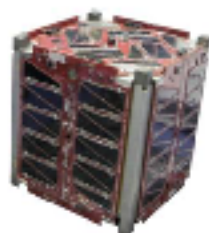
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2014 Virginia QSO Party



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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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
in Virginia's 95 Counties and 38 Independent Cities through
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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*

Thanks to Vienna Wireless Society
for designing the 2019 certificate.

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



Vienna Wireless Society

Amateur Radio Club Since 1963

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





2020 Virginia QSO Party



The
Sterling Park Amateur Radio Club

ks

Thanks to Alexandria Radio Club
for designing the 2020 certificate.

ALL-SIGN

CATEGORY RANKING

**SCORED <> POINTS. CONTACTED <> COUNTIES AND INDEPENDENT CITIES.
FROM THE <CLUB>.**

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



ALEXANDRIA RADIO CLUB

*For over 65 years the Alexandria Radio Club has been a model of service
to the Alexandria community while proudly representing amateur radio
throughout the DC Metropolitan area. Find us at www.W4HFH.org.*



How are we doing?

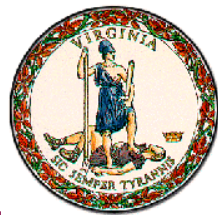
State	Logs Rec'd	Rank by Logs	Licensed Ops	% Log/ Licensed	Rank by % Participation	Party Date
CA	897	1	106,978	0.84	11	Oct-19
FL	597	2	42,725	1.40	4	Apr-19
PA	483	3	24,171	2.00	3	Oct-19
VA	448	4	20,343	2.20	2	Mar-19
TX	348	5	53,420	0.65	12	Sep-19
WA	336	6	34,378	0.98	9	Sep-19
OH	317	7	28,074	1.13	8	Aug-19
NC	300	8	21,536	1.39	5	Mar-19
MI	288	9	21,604	1.33	6	Apr-19
IL	260	11	20,023	1.30	7	Oct-19
SC	242	12	9,767	2.48	1	Jun-19
AZ	178	13	21,056	0.85	10	Oct-19
NY	10	10	27,592	0.04	13	Oct 19

We do very well!

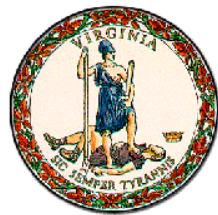
Updated 19 January 2020



What can we do better?



- Improve county and independent city coverage
 - Start earlier
 - President's plaque
- Bundle certificates by club for pickup and mailing
 - Saves postage
 - Member of club then responsible to certificate distribution



2020 Virginia QSO Party



See you on the air!

73,

Sterling Park Amateur Radio Club