

2011 Vermont County Quest Selected Results [as per 1/18/2011]

The County Quest is a program devised to increase the use of eBird within Vermont and thus increase the knowledge of Vermont birds. Presented here are charts depicting the status of and changes in: Species Observed, Checklists Submitted, and Birds Numbers Reported in 2011, with comparison with 1, 5, and 10 years before – for counties and the state as a whole.

The Quest results should reveal (a) the success of the program at expanding birding throughout the state, (b) past growth and successes, and (c) counties and regions of the state where birders could focus future efforts. Thus, for example, where increases shown by numbers or percentages from previous time periods to 2011 are large, it might indicate a county was not as well birded in earlier times than other counties and/or has done an exceptional job in recruiting more birders and observations during the Quest year. Likewise, where the increases in 2011 are comparatively modest it could indicate a county has a relatively long history of active birding as reported to eBird and/or counties with need for more birding attention.

The charts are presented in three groups: Species Numbers, Checklist Numbers, and Bird Numbers. They include comparisons with 2010 (one year ago), 2006 (five years ago) and 2001 (ten years ago). Species lists do not include hybrids, exotics, and genus-only observations. Note that Bird Numbers are larger than the number of actual birds, since individual birds are frequently reported multiple times, especially at feeders. Numbers are corrected for shared lists.

Ian A.Worley, January 21, 2012

SPECIES NUMBERS

How many species were found in each county this year?

Species observed in 2011	
Addison	250
Chittenden	245
Windham	230
Grand Isle	219
Rutland	215
Windsor	213
Bennington	198
Franklin	196
Washington	192
Orleans	187
Orange	178
Lamoille	167
Caledonia	150
Essex	148
Vermont	295

How many species were reported in 2011 per size of county?

Species per Square Mile	
Grand Isle	2.67
Chittenden	0.46
Lamoille	0.36
Addison	0.33
Franklin	0.31
Bennington	0.29
Windham	0.29
Washington	0.28
Orleans	0.27
Orange	0.26
Rutland	0.23
Caledonia	0.23
Essex	0.22
Windsor	0.22
Vermont	0.03

How many species were reported in 2011 relative to the number of people in the county?

Species per Person per Square Mile	
Essex	15.6
Addison	5.2
Orleans	4.8
Orange	4.2
Windham	4.1
Windsor	3.6
Bennington	3.6
Rutland	3.2
Lamoille	3.1
Caledonia	3.1
Franklin	2.6
Grand Isle	2.6
Washington	2.2
Chittenden	0.8
Vermont	4.3

How much larger was the species count in 2011 than the previous year, 2010?

% species increase compared to 2010	
Caledonia	48.5
Bennington	26.1
Orange	24.5
Windham	18.6
Lamoille	18.4
Chittenden	12.9
Windsor	12.7
Grand Isle	12.3
Franklin	12.0
Washington	7.9
Rutland	6.4
Addison	5.9
Orleans	5.6
Essex	2.1
<i>Vermont</i>	8.5

How many species are now known from each county?

Total of all species known from county	
Addison	325
Chittenden	318
Grand Isle	295
Windsor	288
Windham	285
Rutland	278
Franklin	275
Bennington	257
Orange	257
Washington	251
Orleans	243
Essex	209
Caledonia	206
Lamoille	206
<i>Vermont</i>	387

How much larger was the species count in 2011 than five years before, in 2006?

% species increase compared to 2006	
Orleans	139.7
Franklin	81.5
Lamoille	67.0
Caledonia	48.5
Orange	29.0
Windsor	23.8
Bennington	23.8
Windham	21.1
Grand Isle	20.3
Washington	19.3
Addison	15.2
Chittenden	15.0
Rutland	12.6
Essex	8.8
Vermont	10.1

How much larger was the species count in 2011 than ten years before, in 2001?

% species increase compared to 2001	
Lamoille	328.2
Washington	134.1
Franklin	106.3
Essex	85.0
Caledonia	76.5
Windham	75.6
Windsor	65.1
Bennington	55.9
Orleans	49.6
Orange	48.3
Grand Isle	42.2
Chittenden	33.9
Addison	26.9
Rutland	14.4
Vermont	9.7

Which counties found the highest percentage of all the species known from that county?

2011 species as % of all-time species in region	
Windham	81.3
Lamoille	81.1
Rutland	77.6
Addison	77.4
Bennington	77.3
Chittenden	77.0
Orleans	77.0
Washington	76.5
Grand Isle	74.2
Windsor	74.0
Caledonia	72.8
Franklin	71.3
Essex	70.8
Orange	69.5
Vermont	76.2

Which counties added the most species to their county list in 2011?

Number of new species for county in 2011	
Lamoille	10
Caledonia	8
Bennington	7
Essex	7
Franklin	7
Orleans	6
Orange	5
Windsor	5
Windham	4
Grand Isle	4
Rutland	4
Chittenden	3
Washington	2
Addison	0
Vermont	3

CHECKLIST NUMBERS

Which counties submitted the most checklists to eBird in 2011?

Checklists submitted in 2011	
Addison	3086
Windsor	2763
Chittenden	2699
Rutland	1910
Windham	1682
Bennington	1526
Washington	1252
Franklin	584
Lamoille	539
Orange	498
Orleans	388
Caledonia	234
Essex	210
Grand Isle	188
Vermont	17559

How much did each county increase their number of checklists over last year, 2010?

% increase in checklists compared to 2010	
Bennington	510
Caledonia	301
Franklin	288
Orange	281
Windham	277
Lamoille	214
Chittenden	213
Windsor	191
Orleans	182
Washington	164
Addison	164
Grand Isle	141
Rutland	137
Essex	91
Vermont	193

How much did each county increase their number of checklists over five years ago, in 2006?

% increase in checklists compared to 2006	
Franklin	1243
Orleans	862
Lamoille	473
Chittenden	368
Windsor	348
Essex	318
Bennington	294
Addison	281
Orange	250
Windham	237
Rutland	220
Washington	217
Caledonia	170
Grand Isle	49
Vermont	279

How much did each county increase their number of checklists over 10 years ago, in 2001?

% increase in checklists compared to 2001	
Lamoille	6738
Washington	1956
Windham	1543
Windsor	1233
Bennington	972
Franklin	957
Chittenden	924
Addison	599
Essex	553
Orleans	497
Rutland	425
Orange	341
Caledonia	339
Grand Isle	147
Vermont	601

How much did each county improve in checklists submitted per the number of people in the county?

% increase in checklists since 2010 per 1000 people	
Bennington	11.04
Caledonia	6.44
Orange	6.27
Grand Isle	5.83
Lamoille	4.67
Windham	3.98
Franklin	3.93
Orleans	3.02
Addison	1.72
Windsor	1.60
Washington	1.07
Chittenden	0.72
Rutland	0.59
Essex	-1.43
Vermont	0

How much did each county improve in checklists submitted per the density of people in the county?

% increase in checklists since 2010 per population density	
Bennington	7.5
Orange	4.3
Caledonia	4.2
Windham	3.1
Franklin	2.5
Lamoille	2.1
Orleans	2.1
Windsor	1.6
Addison	1.3
Washington	0.7
Rutland	0.6
Grand Isle	0.5
Chittenden	0.4
Essex	-1.0
Vermont	1

How many checklists were submitted per the size of the county?

2011 checklists per square mile	
Chittenden	5.0
Addison	4.0
Windsor	2.9
Grand Isle	2.3
Bennington	2.3
Windham	2.1
Rutland	2.1
Washington	1.8
Lamoille	1.2
Franklin	0.9
Orange	0.7
Orleans	0.6
Caledonia	0.4
Essex	0.3
Vermont	2

What percent of all checklists were submitted by the top three submitters?

% of 2011 checklists from top three submitters	
Rutland	79
Lamoille	74
Franklin	70
Windham	66
Caledonia	61
Addison	55
Washington	55
Bennington	55
Orleans	53
Grand Isle	51
Windsor	48
Chittenden	45
Orange	40
Essex	39
Vermont	56

BIRD NUMBERS (See comment about numbers in Introduction.)

How many birds were reported to eBird this year?

2011 bird numbers	
Addison	136,459
Chittenden	117,324
Rutland	75,195
Windham	57,279
Windsor	46,249
Washington	30,299
Bennington	19,663
Franklin	15,286
Orleans	12,879
Grand Isle	9,829
Essex	8,209
Orange	7,486
Caledonia	5,890
Lamoille	3,098
Vermont	545,145

How much did each county increase their number of birds observed over last year, 2010?

% increase in bird numbers compared to 2010	
Bennington	379
Caledonia	268
Orange	252
Windham	208
Grand Isle	206
Lamoille	203
Chittenden	145
Windsor	122
Orleans	93
Washington	93
Addison	89
Rutland	12
Franklin	7
Essex	-7
Vermont	107

How much did each county increase their number of birds observed over five years ago, in 2006?

% increase in bird numbers compared to 2006	
Orleans	2,486
Franklin	1,567
Essex	271
Orange	239
Chittenden	204
Addison	117
Windsor	115
Windham	107
Rutland	57
Bennington	26
Lamoille	22
Caledonia	8
Washington	-2
Grand Isle	-81
Vermont	76

How much did each county increase their number of birds observed over ten 10 years ago, in 2001?

% increase in bird numbers compared to 2001	
Windham	8,699
Washington	5,311
Orleans	1,775
Franklin	1,558
Lamoille	1,557
Windsor	1,474
Bennington	641
Chittenden	578
Rutland	507
Caledonia	483
Essex	376
Addison	216
Orange	168
Grand Isle	-79
Vermont	305

How much did each county increase the number of birds observed per the density of people in the county?

% increase in bird numbers since 2010 per population density	
Grand Isle	29.6
Bennington	10.2
Orange	8.7
Caledonia	8.6
Lamoille	8.3
Windham	4.7
Orleans	3.4
Addison	2.4
Windsor	2.2
Washington	1.6
Chittenden	0.9
Rutland	0.2
Franklin	0.2
Essex	-1.2
Vermont	0.2

How many birds were observed per the size of the county?

2011 bird numbers per square mile	
Chittenden	218
Addison	178
Grand Isle	120
Rutland	81
Windham	73
Windsor	48
Washington	44
Bennington	29
Franklin	24
Orleans	19
Essex	12
Orange	11
Caledonia	9
Lamoille	7
Vermont	59

How many birds were observed per person in each county?

2011 bird numbers per person in county	
Addison	3.7
Grand Isle	1.4
Essex	1.3
Windham	1.3
Rutland	1.2
Windsor	0.8
Chittenden	0.7
Bennington	0.5
Washington	0.5
Orleans	0.5
Franklin	0.3
Orange	0.3
Caledonia	0.2
Lamoille	0.1
Vermont	0.9

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**List of tables**

**SPECIES NUMBERS**

**[1] Species observed in 2011**

How many species were found in each county this year?

**[2] Species per Square Mile**

How many species were reported in 2011 per size of county?

**[3] Species per Person per Square Mile**

How many species were reported in 2011 relative to the number of people in the county?

**[4] % species increase compared to 2010**

How much larger was the species count in 2011 than the previous year, 2010?

**[5] Total of all species known from county**

How many species are now known from each county?

**[6] % species increase compared to 2006**

How much larger was the species count in 2011 than five years before, in 2006?

**[7] % species increase compared to 2001**

How much larger was the species count in 2011 than ten years before, in 2001?

**[8] 2011 species as % of all-time species in region**

Which counties found the highest percentage of all the species known from that county?

**[9] Number of new species in 2011**

Which counties added the most species to their county list in 2011?

**CHECKLIST NUMBERS**

**[10] Checklists submitted in 2011**

Which counties submitted the most checklists to eBird in 2011?

**[11] % increase in checklists compared to 2010**

How much did each county increase their number of checklists over last year, 2010?

**[12] % increase in checklists compared to 2006**

How much did each county increase their number of checklists over five years ago, in 2006?

**[13] % increase in checklists compared to 2001**

How much did each county increase their number of checklists over 10 years ago, in 2001?

**[14] % increase in checklists over 2010 per 1000 people**

How much did each county improve in checklists submitted per the number of people in the county?

**[15] % increase in checklists since 2010 per population density**

How much did each county improve in checklists submitted per the density of people in the county?

**[16] 2011 checklists per square mile**

How many checklists were submitted per the size of the county?

**[17] % of 2011 checklists from top three submitters**

What percent of all checklists were submitted by the top three submitters?

**BIRD NUMBERS**

(See comment about numbers in Introduction.)

**[18] 2011 bird numbers**

How many birds were reported to eBird this year?

**[19] % increase in bird numbers compared to 2010**

How much did each county increase their number of birds observed over last year, 2010?

**[20] % increase in bird numbers compared to 2006**

How much did each county increase their number of birds observed over five years ago, in 2006?

**[21] % increase in bird numbers compared to 2001**

How much did each county increase their number of birds observed over 10 years ago, in 2001?

**[22] % increase in bird numbers since 2010 per population density**

How much did each county increase their number of birds observed per the density of people in the county?

**[23] 2011 bird numbers per square mile**

How many birds were observed per the size of the county?

**[24] 2011 bird numbers per person in county**

How many birds were observed per person in the county?