

# DC3

## DIGITAL FORENSICS CHALLENGE 2011



### 2011 DC3 Digital Forensics Challenge Update

<http://www.dc3.mil/challenge/2011/>

The final counts are in!

Total # of approved teams:	1147
Total # of individuals participating:	1791
Total # of teams submitting solutions:	174
Total # of exercises submitted (across all challenge levels):	850
Total # of participating countries:	52
Total # of participating US States:	50

### Leader Board:

<b>1</b>	LoneWolf	Individual	Graduate Student	Turkey
<b>2</b>	SIGSEGV	Group	Undergraduate Student	United States
<b>3</b>	Northrop Grumman	Group	Commercial	United States
<b>4</b>	0x90	Group	Government	United States
<b>5</b>	DFRC	Group	Civilian	Korea, Republic Of
<b>6</b>	Williams Twins Forensics	Group	Civilian	United States
<b>7</b>	Burross Team	Group	Civilian	Mexico
<b>8</b>	Jllr	Individual	Government	United States
<b>9</b>	Icarus	Individual	Graduate Student	United Kingdom
<b>10</b>	Team Gullible	Group	Undergraduate Student	United States



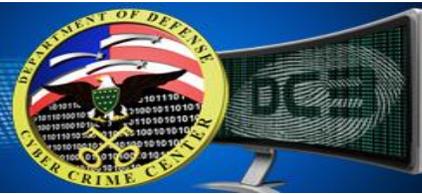


## CHALLENGE WINNERS

Prize Categories	Sponsor(s)	Team Name (Members)	Affiliation	Points
<b>Grand Champion</b> Non-US Winner Overall Graduate Winner	DC3 IMPACT EC-Council	LoneWolf (1)	Sabancı University, Turkey	4,789
<b>US Winner</b> Overall Undergraduate Winner US Undergraduate Winner	DC3, BlackBag, Dell EC-Council SANS, AFCEA, Paraben, AccessData, Best Buy	SIGSEGV (4)	Arizona State University, US	3,532
<b>Overall Commercial Winner</b>	EC-Council	Northrop Grumman (4)	Northrop Grumman, US	3,471
<b>US Government Winner</b>	EC-Council, AFCEA, NIST OLES, Paraben	0x90 (4)	Department of Defense, US	3,269
<b>Overall Civilian Winner</b>	EC-Council	DFRC (4)	University of South Korea, Korea	2,762
<b>UK Winner</b>	UK Challenge, McAfee	Icarus (1)	Lancaster University, UK	2,098
<b>US Graduate Winner</b>	SANS	DSU MSIA-2 (1)	Dakota State University, US	1,549
<b>US Military Winner</b>	EC-Council, AFCEA, Paraben	DCIS SEFO (4)	Defense Criminal Investigative Service, US	1,105
<b>US Community College Winner</b>	CIS, McAfee, Best Buy	CSI-207-001 (4)	Anne Arundel Community College, US	924
<b>Overall High School</b> US High School Winner	EC-Council SANS, Best Buy	AlphaPHS (4)	Poolesville High School, US	854

### 2nd Place Awards

<b>US Government Winner</b>	Paraben	Jllr (1)	NY State Government, US	2,510
<b>US Military Winner</b>	Paraben	Zero Zero (4)	United States Air Force (USAF)	937

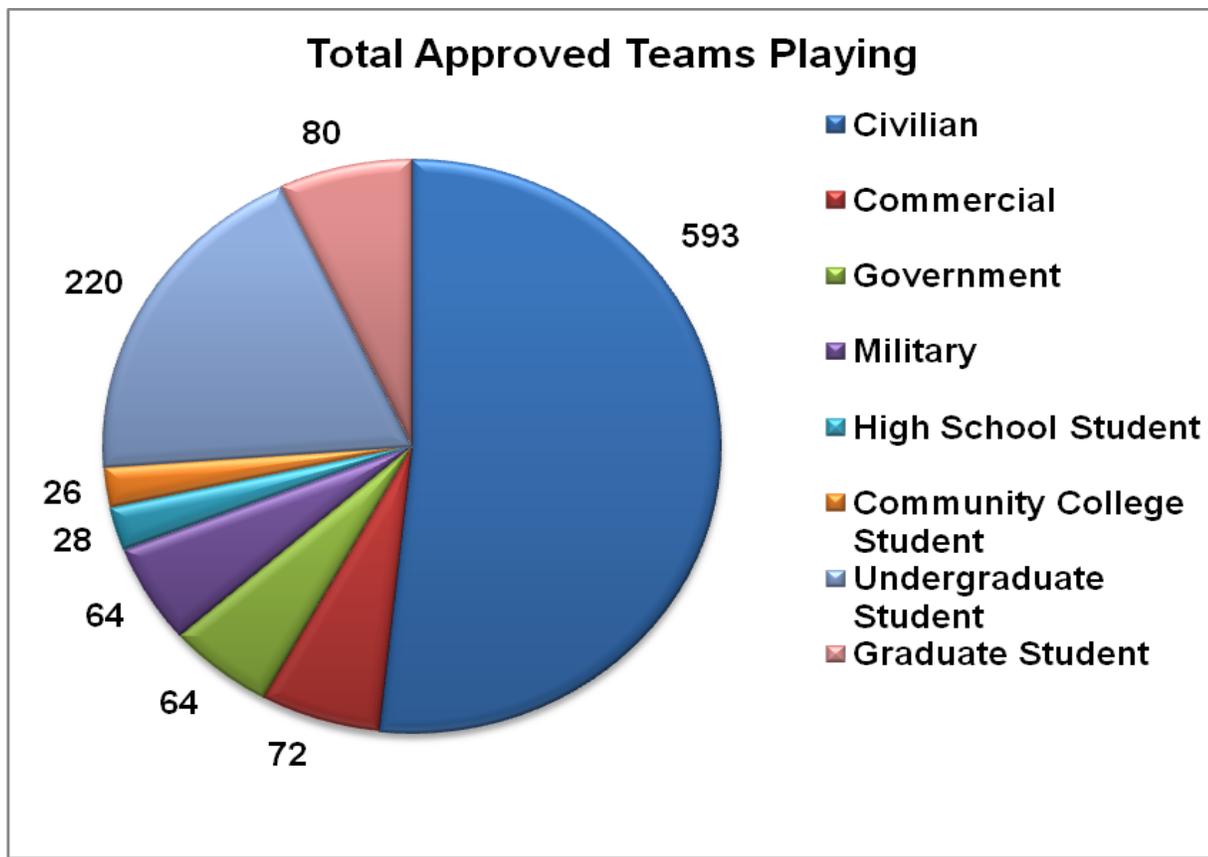




## Team Participation by Citizenship and Category:

Team Affiliation	# of Teams by Overall Citizenship				Total
	US-Only	Non-US	UK	Points Only	
<b>General</b>	<b>405</b>	<b>376</b>	<b>145</b>	<b>8</b>	<b>789</b>
Civilian	272	314	127	4	590
Commercial	37	31	12	4	72
Government	42	21	3	-	63
Military	54	10	3	-	64
<b>Academic</b>	<b>227</b>	<b>119</b>	<b>24</b>	<b>5</b>	<b>351</b>
High School Student	16	11	3	-	27
Community College Student	24	1	1	-	25
Undergraduate Student	146	70	15	4	220
Graduate Student	41	37	5	1	79

## Overall Team Participation by Category:



**Team Participation by Prize:**

**2011 DC3 Digital Forensic Challenge**  
**# of Teams Per Prize Category**

**Overall**

- Overall Civilian Winner (*EC-Council*)
- Overall Commercial Winner (*EC-Council*)
- Overall High School (*EC-Council*)
- Overall Undergraduate (*EC-Council*)
- Overall Graduate (*EC-Council*)
- Points-Only (*Points-Only*)

Number of Teams	
Approved	Submitted
593	59
72	12
28	7
220	64
80	6
13	5

**US-Only**

**General**

- US Overall Winner (*DC3, BlackBag, Dell*)
- US Government winner (*EC-Council, AFCEA, NIST OLES, Paraben*)
- US Military winner (*EC-Council, AFCEA, Paraben*)

Number of Teams	
Approved	Submitted
635	108
43	6
54	11

**Academic**

- US High school winner (*SANS*)
- US Community College Winner (*CyberWatch/JHU, CIS*)
- US Undergraduate winner (*SANS, AFCEA, Paraben, Access Data*)
- US Post Graduate winner (*SANS*)

Number of Teams	
Approved	Submitted
17	4
25	5
146	40
41	4

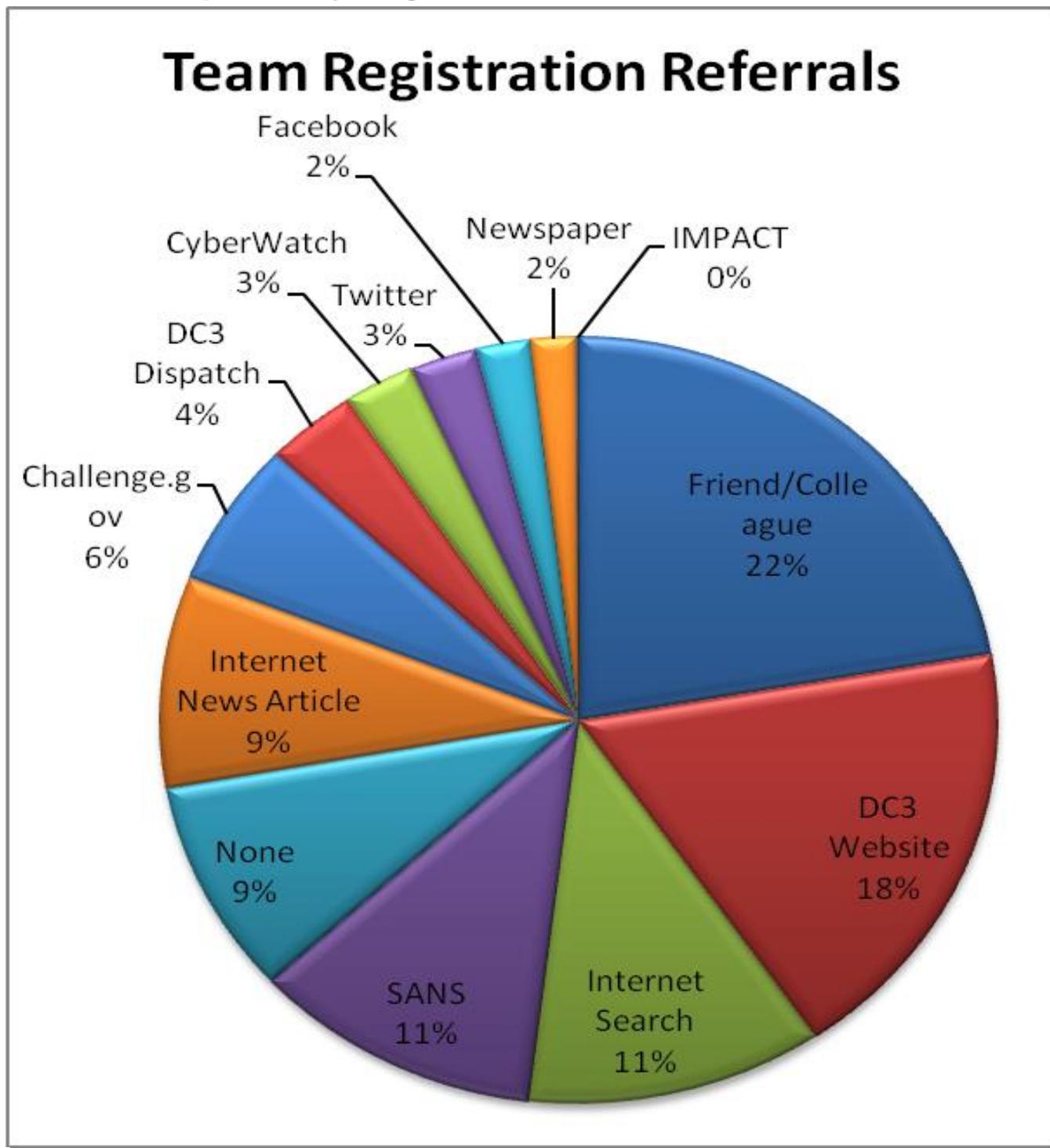
**Non-US Only**

- Non-US Overall Winner (*IMPACT*)
- UK Overall Winner (*UK Challenge*)

Number of Teams	
Approved	Submitted
499	61
172	14



## Team Participation by Registration Referral Source:

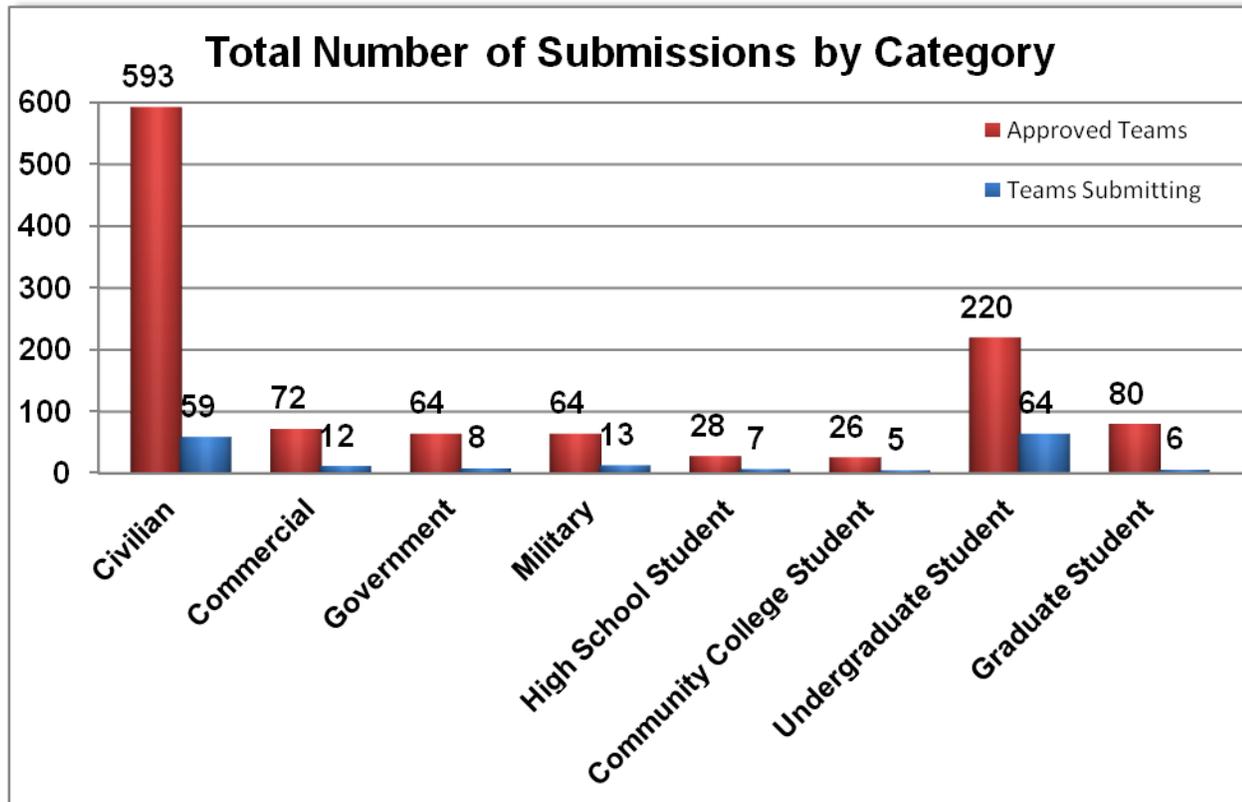




## Exercise Submissions:

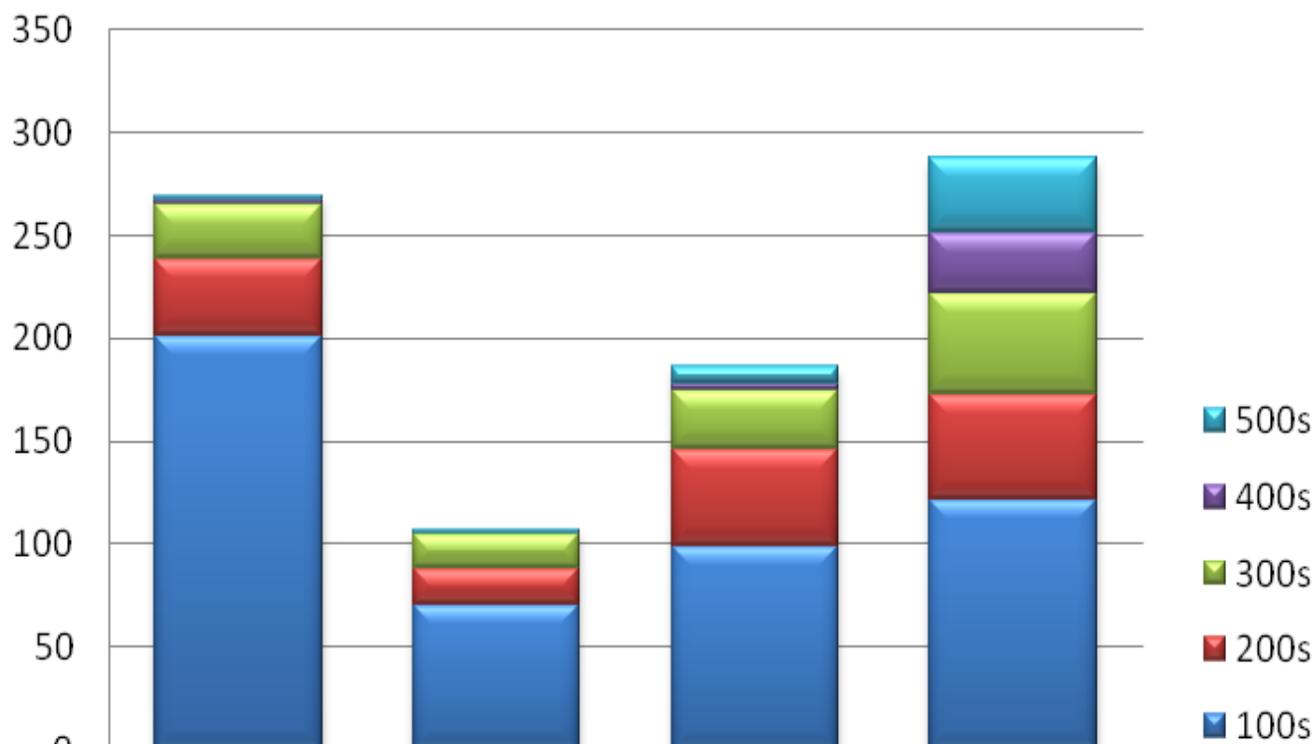
Level	2010		2011	
	# of Teams	# of Submissions	# of Teams	# of Submissions
100s		148		492
200s		62		154
300s		45		121
400s		11		34
500s		13		49
<b>Total</b>	<b>71</b>	<b>279</b>	<b>174</b>	<b>850</b>

## Current Year Exercise Submissions:





## Submissions per Bonus Level

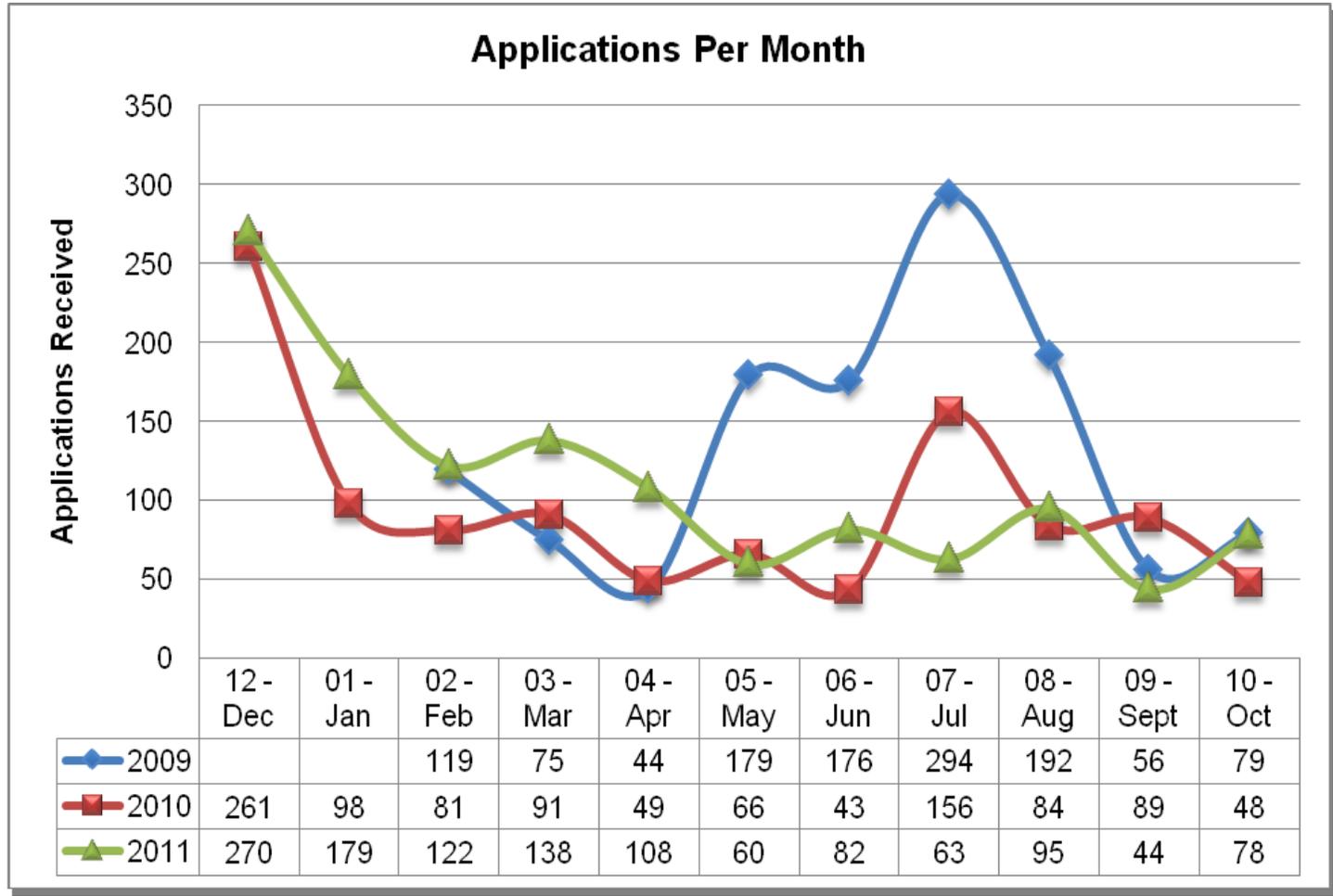


	20%	10%	5%	0%
500s	2	2	8	37
400s	2	0	3	29
300s	26	17	29	49
200s	38	18	47	51
100s	201	70	99	122





## Registration Applications Submitted by Month:





The cells highlighted in YELLOW indicate additions from previous reports.

### Approved Teams by U.S. States and U.S. Armed Forces

Rank	State	Abbr	% of Total	Total
1	New York	NY	8.8%	59
2	Maryland	MD	8.4%	56
3	Virginia	VA	7.2%	48
4	California	CA	7.0%	47
5	Texas	TX	5.4%	36
6	Michigan	MI	4.3%	29
7	North Carolina	NC	4.2%	28
8	Florida	FL	4.0%	27
9	Illinois	IL	3.1%	21
10	Colorado	CO	3.0%	20
11	Minnesota	MN	3.0%	20
12	Ohio	OH	2.8%	19
13	Pennsylvania	PA	2.8%	19
14	New Jersey	NJ	2.7%	18
15	Georgia	GA	2.5%	17
16	Washington	WA	2.5%	17
17	Arizona	AZ	1.6%	11
18	South Carolina	SC	1.6%	11
19	Massachusetts	MA	1.5%	10
20	New Mexico	NM	1.5%	10
21	US Armed Forces: Europe	AE	1.5%	10
22	District of Columbia	DC	1.3%	9
23	Missouri	MO	1.2%	8
24	New Hampshire	NH	1.2%	8
25	Wisconsin	WI	1.2%	8
26	Tennessee	TN	1.0%	7
27	Vermont	VT	1.0%	7
28	Delaware	DE	0.9%	6
29	Kentucky	KY	0.9%	6
30	Nevada	NV	0.9%	6

### Approved Teams By Country

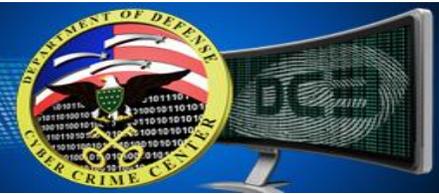
Rank	Country	Abbr	% of Total	Total
1	United States	US	58.7%	669
2	United Kingdom	GB	16.3%	186
3	Italy	IT	2.8%	32
4	South Africa	ZA	2.5%	29
5	India	IN	2.2%	25
6	Australia	AU	1.8%	20
7	Korea, Republic of	KR	1.6%	18
8	Canada	CA	1.5%	17
9	France	FR	1.1%	13
10	Brazil	BR	1.1%	12
11	Mexico	MX	0.9%	10
12	Spain	ES	0.8%	9
13	Austria	AT	0.6%	7
14	Sweden	SE	0.5%	6
15	Belgium	BE	0.4%	5
16	Germany	DE	0.4%	5
17	New Zealand	NZ	0.4%	5
18	Poland	PL	0.4%	5
19	Singapore	SG	0.4%	5
20	Colombia	CO	0.4%	4
21	Portugal	PT	0.4%	4
22	Argentina	AR	0.3%	3
23	Finland	FI	0.3%	3
24	Malaysia	MY	0.3%	3
25	Netherlands	NL	0.3%	3
26	Romania	RO	0.3%	3
27	Turkey	TR	0.3%	3
28	United Arab Emirates	AE	0.3%	3





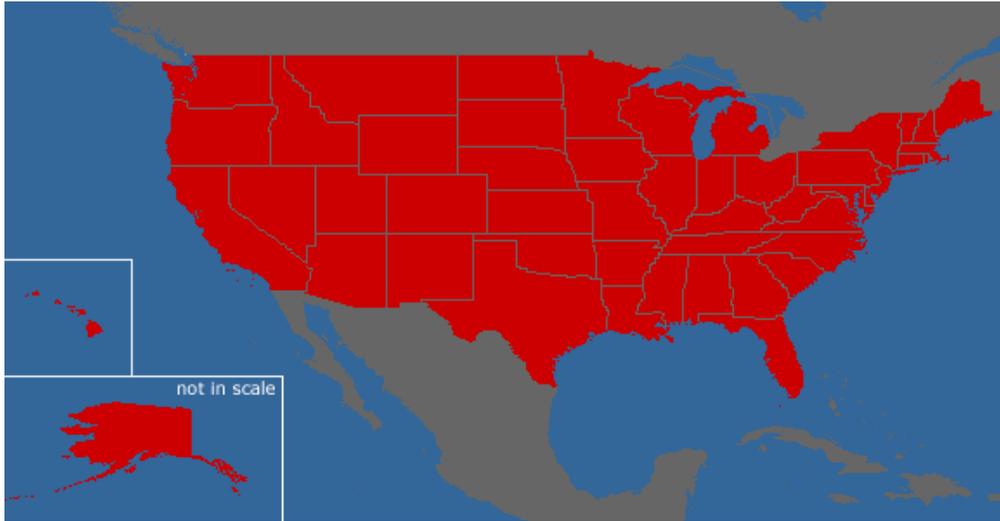
31	Hawaii	HI	0.7%	5
32	Idaho	ID	0.7%	5
33	Indiana	IN	0.7%	5
34	US Armed Forces: Pacific	AP	0.7%	5
35	Alabama	AL	0.6%	4
36	Connecticut	CT	0.6%	4
37	Kansas	KS	0.6%	4
38	Montana	MT	0.6%	4
39	Utah	UT	0.6%	4
40	Alaska	AK	0.4%	3
41	Iowa	IA	0.4%	3
42	Mississippi	MS	0.4%	3
43	South Dakota	SD	0.4%	3
44	Wyoming	WY	0.4%	3
45	Arkansas	AR	0.3%	2
46	Louisiana	LA	0.3%	2
47	Maine	ME	0.3%	2
48	Oregon	OR	0.3%	2
49	Rhode Island	RI	0.3%	2
50	West Virginia	WV	0.3%	2
51	Nebraska	NE	0.1%	1
52	North Dakota	ND	0.1%	1
53	Oklahoma	OK	0.1%	1
54	US Armed Forces: Middle East	AM	0.1%	1
<b>TOTAL</b>			<b>100%</b>	<b>669</b>

29	Denmark	DK	0.2%	2
30	Egypt	EG	0.2%	2
31	Estonia	EE	0.2%	2
32	Hong Kong	HK	0.2%	2
33	Hungary	HU	0.2%	2
34	Japan	JP	0.2%	2
35	Luxembourg	LU	0.2%	2
36	Russian Federation	RU	0.2%	2
37	Switzerland	CH	0.2%	2
38	Algeria	DZ	0.1%	1
39	Bangladesh	BD	0.1%	1
40	Chile	CL	0.1%	1
41	China	CN	0.1%	1
42	Ireland	IE	0.1%	1
43	Jordan	JO	0.1%	1
44	Kazakhstan	KZ	0.1%	1
45	Lebanon	LB	0.1%	1
46	Nigeria	NG	0.1%	1
47	Puerto Rico	PR	0.1%	1
48	Qatar	QA	0.1%	1
49	Serbia	RS	0.1%	1
50	Taiwan, Province of China	TW	0.1%	1
51	Uganda	UG	0.1%	1
52	Uruguay	UY	0.1%	1
<b>TOTAL</b>			<b>100%</b>	<b>1,147</b>



## Participating U.S. States by Approved Teams

States: AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, AM, UT, VT, VA, WA, WV, WI, WY



Total States: 50

## Participating Countries by Approved Teams

Countries: DZ, AR, AU, AT, BD, BE, BR, CA, CL, CN, CO, DK, EG, EE, FI, FR, DE, HK, HU, IN, IE, IT, JP, JO, KZ, KR, LB, LU, MY, MX, NL, NZ, NG, PL, PT, PR, QA, RO, RU, RS, SG, ZA, ES, SE, CH, TW, TR, UG, AE, GB, US, UY



Total Countries: 52 Total Non-US Teams: 471