

Illinois State Beekeepers Association

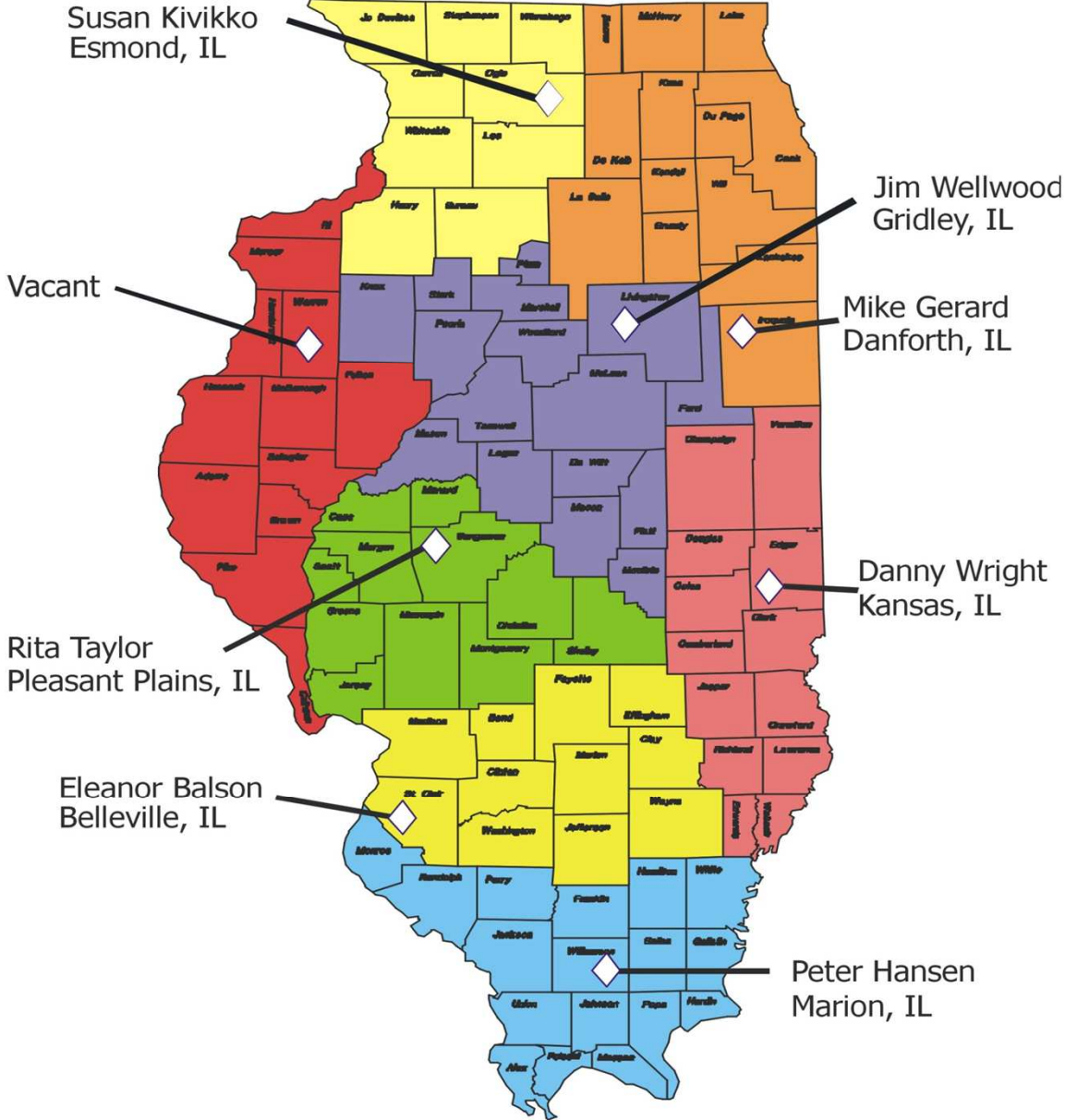
Annual Fall Meeting

November 12, 2011

Illinois Dept. of Agriculture Topics

- IDA Leadership
- IDA Budget
- IDA Capabilities

2011 APIARY INSPECTION DISTRICTS



Illinois Department of Agriculture
 DIVISION OF NATURAL RESOURCES

USDA-APHIS

Honeybee Survey

- Purpose of Survey
- Beekeeper/IDA Participation
- Survey Results
- 2012 Survey?

Colony Collapse Disorder

- Status
- USDA/ARS Survey-Bee Losses Nationwide-30% (Oct. 2010 to April 2011)-All causes, 31% Reported Losses-No Dead Bees
- USDA/ARS Research-Higher total load of Pathogens(viruses, bacteria, fungi), Pesticides – appear to have strong link to CCD
- Specific Cause(s) of CCD-Ongoing Research to Identify
- CCD in Illinois?
- IDOA Actions

Varroa Mite Treatments

Miticides

- Api Life VAR – Thymol Based Product
- Apiguard – Thymol Based Product
- Apistan – Fluvalinate
- Checkmite+ Bee Hive Pest Control Strips – Coumaphos Product
- Mite-Away II – Formic Acid Product
- Mite Away Quick Strips-USEPA Section 3 Registration Approved
- Sucrocide – Sugar Based Product (Not Available-IL)
- Hivastan – No Longer on the Market

- RESULTS??

Varroa Mite Treatments

Alternatives to Chemicals

- Screened Bottom Boards
- Drone Cell Foundation
- Small Cell Beeswax Foundation
- Powdered Sugar Sprayers
Results??

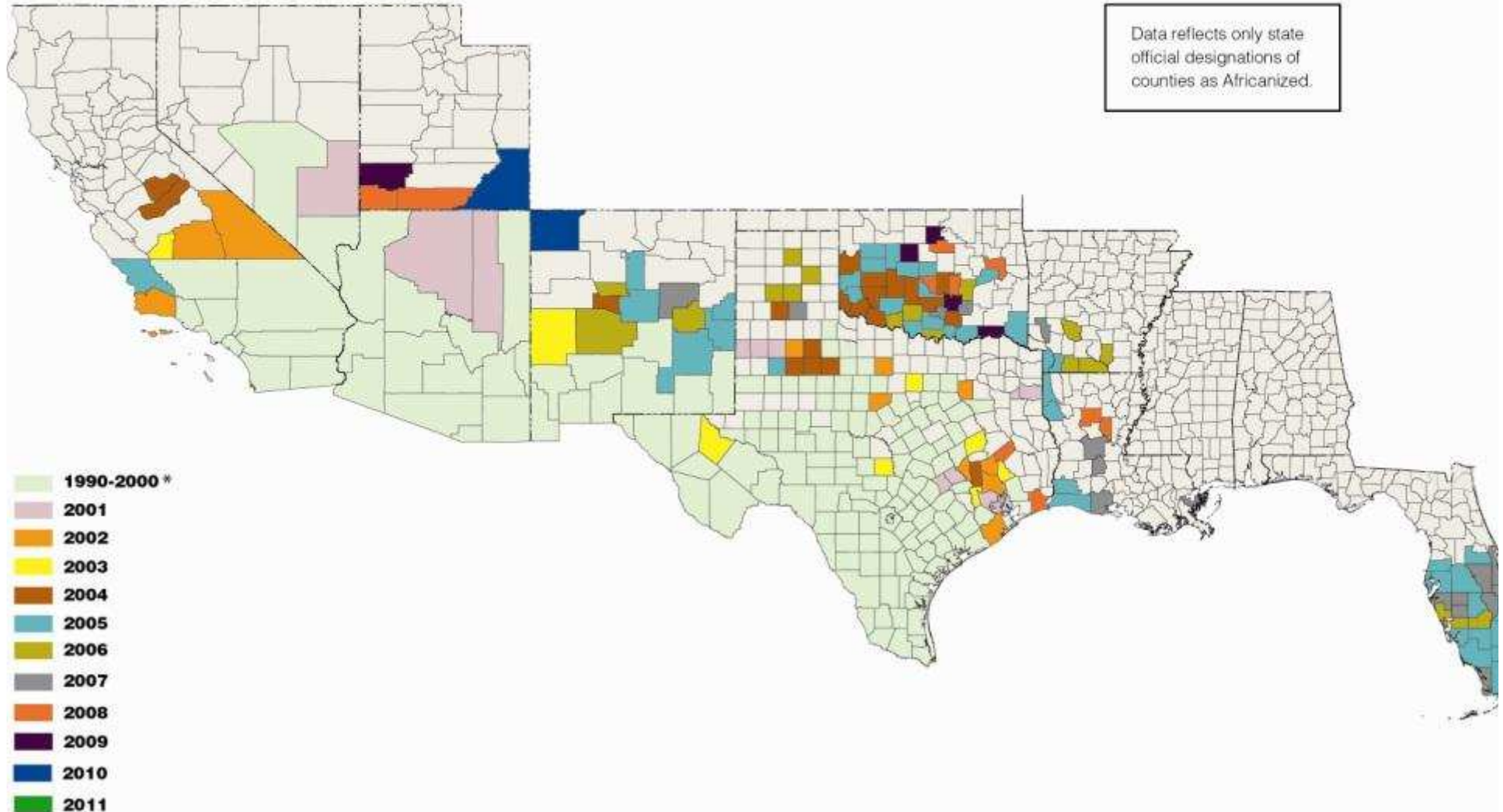
Africanized Honeybees

- Illinois – No Problems Currently
- Latest Detection – State ???
- Report Excessively Aggressive Bees To IDOA –
Samples Collected/Sent To USDA Lab – Tucson
AZ – Analysis
- Bee Constantly Vigilant
- Reference Information Available – Carl Hayden
Bee Lab –***gears.tucson.ars.ag.gov***

Spread of Africanized honey bees by year, by county

Updated March 2011

Agricultural Research Service, USDA



Small Hive Beetle

- Major Pest of Apiary Industry
- Entered Illinois in 2001 (Kankakee, McLean & Will Counties)
- Currently Affects 44 Counties (Not Widespread)-Illinois
- Most Recent Detection – LaSalle County
- New Detections 2011 –Macoupin, Rock Island, Hancock, DeKalb, Wayne, LaSalle Counties
- Checkmite+ Strips/GardStar
- West Small Hive Beetle Trap – Dadant
- AJs Beetle Eater – Dadant
- Cutts Beetle Blaster

Small Hive Beetle-Affected Counties

- Bond
- Bureau
- Champaign
- Christian
- Clay
- Clinton
- Coles
- Cook
- DeKalb
- DuPage
- Effingham
- Fayette
- Franklin
- Fulton
- Grundy
- Hancock
- Henry
- Iroquois
- Jackson
- Jefferson
- Kane
- Kankakee
- Kendall
- Lake
- LaSalle
- Livingston
- Logan
- Macoupin
- Madison
- Marion
- Mason
- McHenry
- McLean
- Monroe
- Moultrie
- Rock Island
- Sangamon
- St. Clair
- Tazewell
- Vermilion
- Wayne
- Washington
- Whiteside
- Will

Additional Items

- Annual Registration Renewals-Arriving Daily
- New Registrations – 278 – FY 2011, 267 – FY 2010
- IDOA Volunteer Swarm List-504 Beekeepers-IL
- Public Awareness Activities-Community Garden-Big Thanks to Dadant/Lincoln Land Beekeepers Assn. , IL State Fair-Observation Hives
- Community Garden-164 Plots/107 Gardeners/6000 # of Food Donated to Local Charities

Pesticide Concerns

- ISBA Brochures-<http://isba.us>
- IDOA Project – “Reducing Potential Bee Exposure to Pesticides” – www.agr.state.il.us
- *driftwatch*-Pesticide Sensitive Crops & Habitat Registry – www.driftwatch.org



Driftwatch™ is a tool to help protect pesticide-sensitive crops and habitats in Illinois. Managers of ecologically sensitive areas and owners of commercial fields and apiaries may register - this site is not intended for homeowners.

Pesticide applicators can easily locate registered sites before they spray using a Google Maps™ interface.

[Learn how to register your site.](#)

[Register for applicator emails.](#)

[Learn about our resources for applicators.](#)

[View maps.](#)



Photo by Ben Alkire

General information regarding

[Pesticide Use and Regulation](#) in Illinois

<http://www.agr.state.il.us/Environment/Pesticide/pestuses>

General information regarding the

[Aerial Application of Pesticides](#)

in Illinois

<http://www.agr.state.il.us/Environment/Pesticide/aerialap.html>



Applicator's resource page: [Links](#)

Sensitive Crops

Why "*DriftWatch*" - because we want everyone to watch out for drift when spraying.

The following links provide information on various crops that are sensitive to pesticide drift or overspray.

Sensitive crops include:

tomatoes

- [Tomato fungicide Guide for Indiana 2010](#) Purdue University

grapes

- [Midwest Small Fruit and Spray Guide](#) Purdue University
 - [Grapes and 2,4-D drift in Wisconsin](#) (good images of damage) University of Wisconsin

vegetables

- [Fruit and Vegetable Connection](#) Purdue University

nursery fruit

- [Fruit and Vegetable Connection](#) Purdue University
 - [Fruit Disease Profiles and Bulletins](#) University of Wisconsin
 - [DOs and DON'Ts of Fungicide Use on Cranberry in Wisconsin](#) University of Wisconsin

beehives

- [The Bee Hive](#)
 - [Reducing Bee Exposure to Pesticides](#) Illinois Department of Agriculture

certified organic

- [Organic Vegetable Production](#) Purdue University

transitional organic

trees

-(Get my Drift: [Legal aspects of pesticide drift](#)) University of Minnesota

sensitive habitats (listed or endangered species)

Information on [Preparing for Soybean Rust](#) Purdue University

[EPA Pesticides and Chemical Fact Sheets.](#)

 Producers with approved fields can order No Drift Zone signs. The approval email will tell you how, or follow the link when you login!

Driftwatch Database Entry Summary for Illinois



2011-10-31 09:36:01

This is the summary of database entries for driftwatch. This table shows the number or acres of each type of crop and the number unique or individuals producing that crop. View the PDF of this [report](#).

Registered Applicators		36
Beehives		
	Producers	72
	Count*	1,186
Certified Organic		
	Producers	14
	Area (acres)	2,297
Fruits		
	Producers	3
	Area (acres)	13
Grapes		
	Producers	58
	Area (acres)	483
Floriculture or Greenhouse		
	Producers	1
	Area (acres)	40
Organic Livestock		
	Producers	3
	Area (acres)	303
Nursery Crops		
	Producers	1
	Area (acres)	26

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2011-10-31 09:36:01

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Organic Crops		
	Producers	16
	Area (acres)	3,077
Vegetables		
	Producers	18
	Area (acres)	495
Christmas Trees		
	Producers	1
	Area (acres)	5
Other		
	Producers	3
	Area (acres)	1,103
Tobacco		
	Producers	1
	Area (acres)	2

*: Since beehives do not take very much area, we store a very small polygon which is interpreted as a point. So instead of an area for beehives, we have a count.

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Distribution of Beekeeper Size in Illinois as of July 1, 2011

Number of Colonies	Number of Beekeepers	Percentage of Beekeepers
0	73	4.02
1-5	1250	68.87
6-10	254	13.99
11-20	132	7.27
21-50	70	3.85
51-100	22	1.21
101-200	7	.04
201-300	4	.02
301-400	1	.005
401-500	2	.01
>500	0	00
TOTAL	1815	99.29*

* May not total 100% due to rounding.

Illinois Beekeeper and Colony Statistics from July 1, 1990 through July 1, 2011

Year	Number of Registered Beekeepers	Number of Apiaries	Number of Colonies	Colonies/ Beekeeper	Colonies/ Apiary
2011	1,815	2,786	21,266	11.7	7.6
2010	1,631	2,565	20,547	12.6	8.0
2009	1,433	2,325	19,680	13.7	8.5
2008	1,366	2,303	19,556	14.3	8.5
2007	1,329	2,216	18,821	14.2	8.5
2006	1,264	2,157	20,217	16.0	9.4
2005	1,213	2,054	27,646	22.8	13.5
2004	1,141	1,940	19,572	17.2	10.1
2003	1,117	1,926	18,649	16.7	9.7
2002	1,107	1,914	17,963	16.3	9.4
2001	1,160	2,038	19,627	16.9	9.6
2000	1,142	1,975	18,504	16.2	9.4
1999	1,208	2,025	16,939	14.0	8.4
1998	1,295	2,136	18,129	14.0	8.5
1997	1,521	2,464	17,276	11.4	7.0
1996	1,515	2,506	16,896	11.2	6.7
1995	1,782	2,879	19,037	10.7	6.6
1994	1,999	3,252	21,872	10.9	6.7
1993	2,021	3,350	24,240	12.0	7.2
1992	2,249	3,668	26,405	11.7	7.2
1991	2,329	3,758	27,693	11.9	7.4
1990	2,705	4,336	33,800	12.5	7.8

**Number of Registered Apiaries and Colonies
in Illinois Counties as of July 1, 2011**

COUNTY	# OF APIARIES	# OF COLONIES
Adams	33	305
Alexander	1	1
Bond	25	59
Boone	19	320
Brown	22	107
Bureau	41	196
Calhoun	4	12
Carroll	23	478
Cass	14	57
Champaign	73	255
Christian	18	34
Clark	17	47
Clay	6	51
Clinton	15	46
Coles	38	179
Cook	192	861
Crawford	10	23
Cumberland	17	49

COUNTY	# OF APIARIES	# OF COLONIES
DeKalb	21	118
DeWitt	13	31
Douglas	17	45
DuPage	120	337
Edgar	22	121
Edwards	5	21
Effingham	15	72
Fayette	22	61
Ford	8	33
Franklin	12	67
Fulton	48	263
Gallatin	3	23
Greene	5	44
Grundy	17	162
Hamilton	6	12
Hancock	24	171
Hardin	1	13
Henderson	10	23
Henry	12	58

COUNTY	# OF APIARIES	# OF COLONIES
Iroquois	21	1554
Jackson	33	207
Jasper	27	119
Jefferson	10	85
Jersey	8	60
JoDaviess	74	1741
Johnson	11	71
Kane	100	433
Kankakee	35	349
Kendall	30	194
Knox	25	251
LaSalle	42	185
Lake	149	841
Lawrence	7	22
Lee	13	51
Livingston	14	32
Logan	20	265
Macon	31	6
Macoupin	46	172

COUNTY	# OF APIARIES	# OF COLONIES
Madison	61	223
Marion	12	28
Marshall	8	60
Mason	15	82
Massac	3	402
McDonough	17	76
McHenry	93	722
McLean	27	139
Menard	13	58
Mercer	10	28
Monroe	15	293
Montgomery	18	67
Morgan	19	70
Moultrie	16	83
Ogle	50	331
Peoria	55	293
Perry	15	182
Piatt	13	48
Pike	11	19

COUNTY	# OF APIARIES	# OF COLONIES
Pope	1	0
Pulaski	4	538
Putnam	3	26
Randolph	7	54
Richland	14	36
Rock Island	16	81
Saline	2	5
Sangamon	112	383
Schuyler	11	37
Scott	4	6
Shelby	20	156
St. Clair	73	369
Stark	7	18
Stephenson	35	279
Tazewell	41	337
Union	10	1488
Vermilion	27	144
Wabash	2	4
Warren	15	138

COUNTY	# OF APIARIES	# OF COLONIES
Washington	19	49
Wayne	29	154
White	4	13
Whiteside	34	210
Will	74	959
Williamson	33	669
Winnebago	43	319
Woodford	30	110
TOTALS:	2,786	21,266

Illinois Apiary Inspection Statistics -- FY92 through July 1, 2011

Year	# Apiaries Inspected	Colonies Inspected	Colonies Opened
FY11	308	2,135	1,538
FY10	406	2,695	1,998
FY09	344	4,027	2,947
FY08	314	2,073	1,523
FY07	343	2,561	1,824
FY06	346	2,673	1,939
FY 05	296	4,695	2,603
FY 04	219	4,696	1,747
FY 03	266	3,662	1,915
FY02	196	1,999	1,254
FY01	231	3,228	1,273
FY00	115	1,731	855
FY99	156	4,083	1,424
FY98	199	3,027	1,388
FY97	277	2,086	1,236
FY96	279	2,480	1,349
FY95	333	2,584	1,363
FY94	530	3,809	2,357
FY93	419	2,366	1,530
FY92	460	-	2,173

Year	_____AFB_____		# of Colonies with EFB	# of Colonies w/ Chalk Brood	___Varroa Mites___		# of Colonies Tracheal Mites
	# of Colonies	% of Colonies Opened			# of Colonies	% of Colonies Inspected	
FY11	1	.06	14	6	265	1.2	2
FY10	8	.4	35	28	483	1.8	10
FY09	7	.2	0	5	196	4.9	1
FY08	12	.8	3	10	113	5.5	1
FY07	23	1.3	7	24	157	6.1	1
FY06	36	1.9	2	17	182	6.8	-
FY 05	50	1.9	10	69	171	3.6	-
FY 04	37	2.1	1	48	54	1.1	-
FY 03	89	4.7	8	109	297	8.1	8
FY02	31	2.5	0	4	141	7.0	-
FY01	18	1.4	1	41	217	6.7	-
FY00	21	2.4	0	4	407	23.5	9
FY99	8	0.6	0	19	751	18.4	
FY98	85	6.1	0	51	1,232	40.7	5
FY97	32	2.6	2	7	99	4.7	-
FY96	156	11.8	5	54	260	11.3	-
FY95	15	1.1	3	6	837	32.4	88
FY94	72	3.1	8	33	1,090	28.6	121
FY93	48	3.1	6	10	672	28.4	144
FY92	62	2.8	19	25	389	-	119
Cal92	72	3.7	1	21	618	-	120

- **THANK YOU!!**