

Japanese Beetle – Amazon Air and Other Carriers

CDFA 2019

Japanese Beetle Aircraft Program

Federal Domestic Quarantine, 7 CFR 301.48



- The objective of the JB program is to protect the agriculture of the western United States by ***preventing the artificial spread of JB from the eastern United States.***
- ***Artificial spread refers specifically to the movement of JB on aircraft***
 - ***Aircraft*** at or from regulated airports is a regulated article
 - ***Aircraft Inspection*** designed to find and remove JBs hitchhiking in aircraft before they escape and enter the environment



A New Player

- **March 2016**

- Amazon Air started
- CDFA began intercepting JB on Amazon aircrafts from the infested areas

- **California airports where Amazon receives cargo**

- Ontario Int'l Airport (ONT)
- March Air Reserve Base (RIV)
- Stockton Metropolitan Airport (SCK)
- Sacramento International Airport (SMF)

WHY



JB Interceptions - 2016

2016 JB Interceptions - Carrier/CA Airport				
Carrier - Airport	Sum of JB Live	Sum of JB Moribund	Sum of JB Dead	Sum of JB Total
ABX				
LAX	0	0	2	2
ONT	0	0	9	9
ABX Total	0	0	11	11
DHL				
SAN	0	0	3	3
DHL Total	0	0	3	3
FedEx				
LAX	0	0	6	6
SAN	0	0	4	4
SMF	0	0	1	1
FedEx Total	0	0	11	11
UPS				
BUR	2	0	27	29
LAX	0	0	19	19
LGB	1	0	1	2
MHR	1	0	7	8
OAK	0	0	28	28
ONT	4	0	48	52
SAN	1	0	6	7
SJC	0	0	1	1
SNA	0	0	4	4
UPS Total	9	0	141	150
Grand Total	9	0	166	175

2016 JB Inspections					
Carriers		Beetles			
Carrier	+ Flights	Live	Moribund	Dead	Total
ABX	8	0	0	11	11
DHL	3	0	0	3	3
FedEx	11	0	0	11	11
UPS	90	9	0	141	150
Total	112	9	0	166	175

2016 JB Carriers & Aircraft Inspections

2016 JB Inspections									
Local Airports					Beetles				
Code	Airport	# Insp	+ Flights	% +	Live	Moribund	Dead	Total	Trap
BUR	Bob Hope Airport (Burbank)	172	12	7%	2	0	27	29	0
LAX	Los Angeles International	814	18	2%	0	0	27	27	10
LGB	Long Beach Municipal	26	2	8%	1	0	1	2	0
MHR	Sacramento Mather Airport	150	7	5%	1	0	7	8	1
OAK	Oakland International	94	16	17%	0	0	28	28	0
ONT	Ontario International	884	39	4%	4	0	57	61	4
SAN	San Diego International	443	13	3%	1	0	13	14	1
SCK	Stockton Metropolitan	0	0	0%	0	0	0	0	0
SJC	San Jose International	15	1	7%	0	0	1	1	0
SMF	Sacramento International	139	1	1%	0	0	1	1	0
SNA	John Wayne International	57	3	5%	0	0	4	4	3
Total		2,794	112	5%	9	0	166	175	19

JB Interceptions - 2017

2017 JB Interceptions - Carrier/CA Airport				
Carrier - Airport	Sum of JB Live	Sum of JB Moribund	Sum of JB Dead	Sum of JB Total
ABX				
LAX	0	0	1	1
ABX Total	0	0	1	1
ATI				
ONT	5	2	44	50
SCK	10	4	119	133
ATI Total	15	6	163	183
Atlas				
ONT	7	0	52	59
Atlas Total	7	0	52	59
DHL				
MHR	0	0	6	6
SAN	0	0	4	4
DHL Total	0	0	10	10
FedEx				
Burbank	0	0	5	5
LAX	0	0	14	14
SAN	1	0	23	24
SMF	1	0	4	5
SNA	0	0	4	4
FedEx Total	2	0	50	52
UPS				
Burbank	3	0	28	32
LAX	1	0	8	9
LGB	0	2	0	2
MHR	6	9	42	57
OAK	7	0	34	41
ONT	68	3	348	419
SAN	2	0	21	23
SNA	0	0	1	1
UPS Total	87	14	482	584
Grand Total	111	20	758	889

2017 JB Inspections					
Carriers		Beetles			
Carrier	+ Flights	Live	Moribund	Dead	Total
Amazon (ABX)	1	0	0	1	1
Amazon (ATI)	70	15	6	162	183
Amazon (Atlas)	25	7	0	52	59
Amazon (Total)	96	22	6	215	243
DHL	6	0	0	10	10
FedEx	33	2	0	50	52
UPS	254	87	14	483	584
Total	389	111	20	758	889

2017 JB Inspections									
Local Airports					Beetles				
Code	Airport	# Insp	+ Flights	% +	Live	Moribund	Dead	Total	Trap
BUR	Bob Hope Airport (Burbank)	140	23	16%	3	0	34	37	0
LAX	Los Angeles International	587	19	3%	1	0	23	24	0
LGB	Long Beach Municipal	13	1	8%	0	2	0	2	0
MHR	Sacramento Mather Airport	291	28	10%	6	9	48	63	4
OAK	Oakland International	102	25	25%	7	0	34	41	0
ONT	Ontario International	1,825	216	12%	80	5	443	528	14
SAN	San Diego International	394	29	7%	3	0	48	51	2
SCK	Stockton Metropolitan	171	39	23%	10	4	119	133	28
SJC	San Jose International	3	0	0%	0	0	0	0	0
SMF	Sacramento International	145	5	3%	1	0	4	5	1
SNA	John Wayne International	78	4	5%	0	0	5	5	1
	Total	3,749	389	10%	111	20	758	889	50

JB Interceptions - 2018

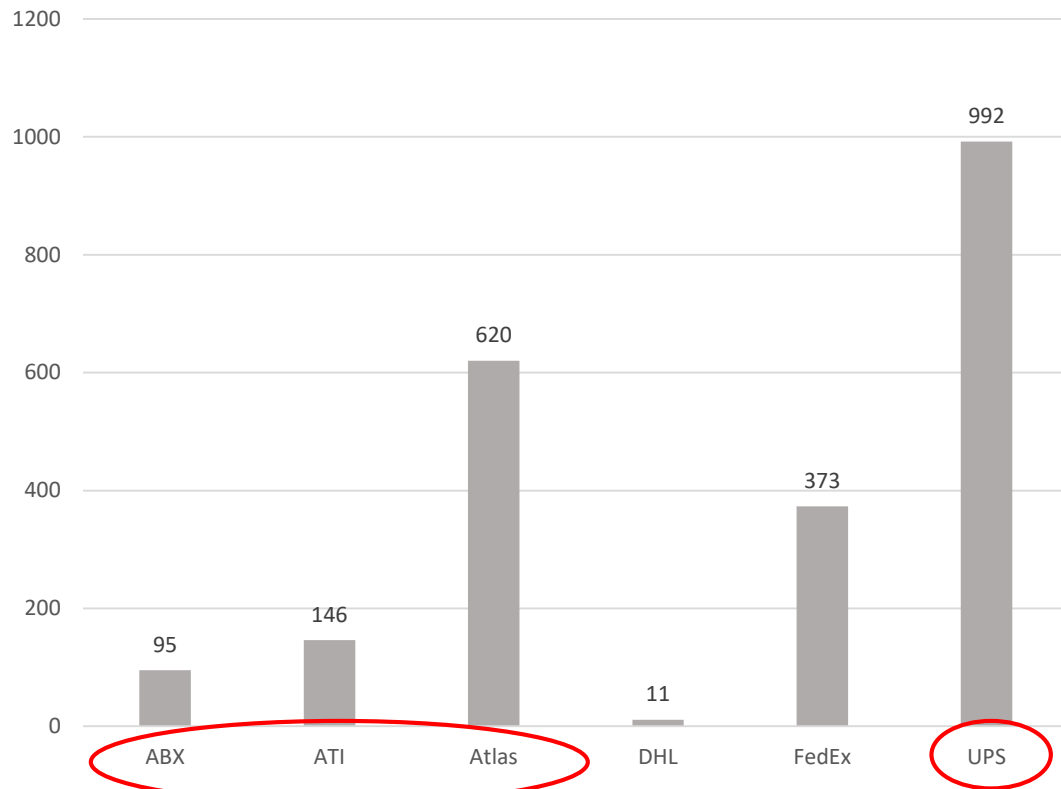
2018 JB Interceptions - Carrier/CA Airport				
Carrier - Airport	Sum of JB Live	Sum of JB Moribund	Sum of JB Dead	Sum of JB Total
ABX				
ONT	1	2	64	67
SMF	0	0	28	28
ABX Total	1	2	92	95
ATI				
ONT	1	0	83	84
SCK	0	0	4	4
SMF	0	0	58	58
ATI Total	1	0	145	146
Atlas				
ONT	33	10	142	185
SCK	43	0	392	435
Atlas Total	76	10	534	620
DHL				
SAN	0	0	11	11
DHL Total	0	0	11	11
FedEx				
BUR	0	0	25	25
LAX	16	2	92	110
ONT	1	1	29	31
SAN	4	19	169	192
SMF	0	0	6	6
SNA	1	0	8	9
FedEx Total	22	22	329	373
UPS				
BUR	4	0	30	34
LAX	1	0	7	8
LGB	0	0	3	3
MHR	1	1	18	20
OAK	7	0	94	101
ONT	36	6	723	765
SAN	6	4	40	50
SJC	0	0	3	3
SNA	1	0	7	8
UPS Total	56	11	925	992
Grand Total	156	45	2,036	2,237

2018 JB Inspections					
Carriers		Beetles			
Carrier	+ Flights	Live	Moribund	Dead	Total
Amazon (ABX)	39	1	2	92	95
Amazon (ATI)	57	1	0	145	146
Amazon (Atlas)	180	76	10	534	620
Amazon (Total)	276	78	12	771	861
DHL	7	0	0	11	11
FedEx	163	22	22	329	373
UPS	425	56	11	925	992
Total	871	156	45	2,036	2,237

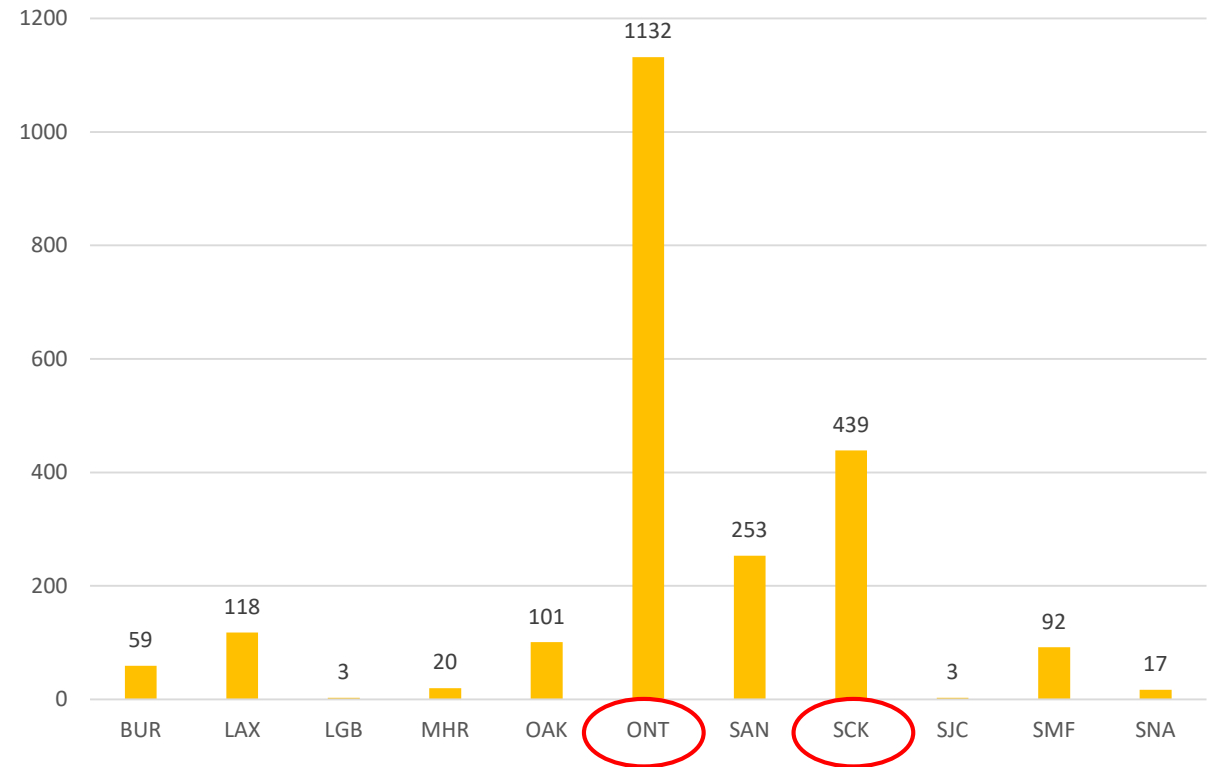
2018 JB Inspections									
Local Airports					Beetles				
Code	Airport	# Insp	+ Flights	% +	Live	Moribund	Dead	Total	Trap
BUR	Bob Hope Airport (Burbank)	168	31	18%	4	0	55	59	0
LAX	Los Angeles International	835	60	7%	17	2	99	118	11
LGB	Long Beach Municipal	37	2	5%	0	0	3	3	0
MHR	Sacramento Mather Airport	120	12	10%	1	1	18	20	1
OAK	Oakland International	113	47	42%	7	0	94	101	0
ONT	Ontario International	2,522	465	18%	72	19	1,041	1,132	6
SAN	San Diego International	467	99	21%	10	23	220	253	2
SCK	Stockton Metropolitan	211	107	51%	43	0	396	439	21
SJC	San Jose International	15	3	20%	0	0	3	3	2
SMF	Sacramento International	158	36	23%	0	0	92	92	3
SNA	John Wayne International	57	9	16%	2	0	15	17	0
Total	Total	4,703	871	21%	156	45	2,036	2,237	46

Statistics - 2018

JB Found by Carrier
06/19/18 - 09/30/18



JB Found by Airport
06/19/18 - 09/30/18



JB Interceptions – as of August 3, 2019

2019 JB Interceptions - Carrier/CA Airport				
Carrier - Airport	Sum of JB Live	Sum of JB Moribund	Sum of JB Dead	Sum of JB Total
ABX				
ONT	0	0	3	3
SMF	0	0	9	9
ABX Total	0	0	12	12
ATI				
ONT	0	0	10	10
SMF	1	0	13	14
ATI Total	1	0	23	24
Atlas				
ONT	0	0	6	6
SCK	3	0	39	42
RIV	0	1	6	7
Atlas Total	3	1	51	55
DHL				
SAN	0	0	1	1
DHL Total	0	0	1	1
FedEx				
BUR	0	0	1	1
LAX	18	0	67	85
ONT	0	0	9	9
SAN	0	6	57	63
SMF	0	0	11	11
SJC	0	0	1	1
FedEx Total	18	6	146	170
UPS				
LAX	1	0	6	7
LGB	0	0	1	1
MHR	0	2	20	22
OAK	6	0	27	33
ONT	3	10	212	225
SAN	1	2	8	11
SJC	0	0	6	6
SNA	0	0	3	3
UPS Total	11	14	284	309
Grand Total	33	21	517	571

2019 JB Inspections					
Carriers		Beetles			
Carrier	+ Flights	Live	Moribund	Dead	Total
Amazon (ABX)	8	0	0	12	12
Amazon (ATI)	17	1	0	23	24
Amazon (Atlas)	39	3	1	51	55
Amazon (Total)	64	4	1	86	91
DHL	1	0	0	1	1
FedEx	75	18	6	146	170
UPS	154	11	14	284	309
Total	294	33	21	517	571

2019 JB Inspections									
Local Airports					Beetles				
Code	Airport	# Insp	+ Flights	% +	Live	Moribund	Dead	Total	Trap
BUR	Bob Hope Airport (Burbank)	98	2	2%	0	0	2	2	1
LAX	Los Angeles International	405	44	11%	19	0	73	92	2
LGB	Long Beach Municipal	9	1	11%	0	0	1	1	0
MHR	Sacramento Mather Airport	121	14	12%	0	2	20	22	4
OAK	Oakland International	93	16	17%	6	0	27	33	0
ONT	Ontario International	1033	127	12%	3	10	240	253	6
RIV	March Air Reserve Base	108	5	5%	0	1	6	7	0
SAN	San Diego International	217	34	16%	1	8	66	75	7
SCK	Stockton Metropolitan	165	29	18%	3	0	39	42	1
SJC	San Jose International	32	3	9%	0	0	7	7	0
SMF	Sacramento International	136	16	12%	1	0	33	34	1
SNA	John Wayne International	29	3	10%	0	0	3	3	1
	Total	2439	294	12%	33	21	517	571	23

JB Interceptions - as of August 3, 2019...cont.

Airport of Origin

2019 JB Interceptions -Origin Airports		Beetles				
Code	Airport	+Flt's	L	M	D	Total
ABE	Lehigh Valley International (PA)	8	1	0	14	15
BDL	Bradley International (CT)	7	0	0	7	7
BWI	Baltimore Washington International (MD)	5	0	0	4	4
CAE	Columbia Metropolitan (SC)	6	0	0	12	12
CLT	Charlotte Douglas International (NC)	0	0	0	0	0
CVG	Cincinnati / NKY International (KY)	36	3	0	48	51
EWR	Newark Liberty International (NJ)	6	8	0	14	22
HKG	Hong Kong International (CH)	5	0	0	10	10
IAH	George Bush Intercontinental (TX)	2	0	0	2	2
ICN	Incheon International (CH)	4	0	0	20	20
ILN	Wilmington Air Park (OH)	5	0	0	9	9
IND	Indianapolis International (IN)	32	10	4	51	65
MEM	Memphis International (TN)	37	0	2	81	83
PHL	Philadelphia International (PA)	8	0	0	8	8
PVG	Shanghai Pudong International (CH)	8	0	0	45	45
RFD	Chicago/Rockford International (IL)	32	1	7	36	44
SDF	Louisville International (KY)	94	10	8	155	173
TPE	Taiwan Taoyuan International (CH)	0	0	0	0	0
		294	33	21	517	571

Flights positive for JB have increased from 5% in 2016 to 21% in 2018 and have dropped to 12% in 2019 (Jun-Aug)

	2016	2017	2018	2019 (Jun-Aug)
# Insp	2,794	3,749	4,703	2439
+ Flights	112	389	871	294
% +	5%	10%	21%	12%
Live	9	111	156	33
Moribund	0	20	45	21
Dead	166	758	2,036	517
Total JB	175	889	2,237	571
Trap	19	50	46	23

THANK YOU

www.cdfa.ca.gov