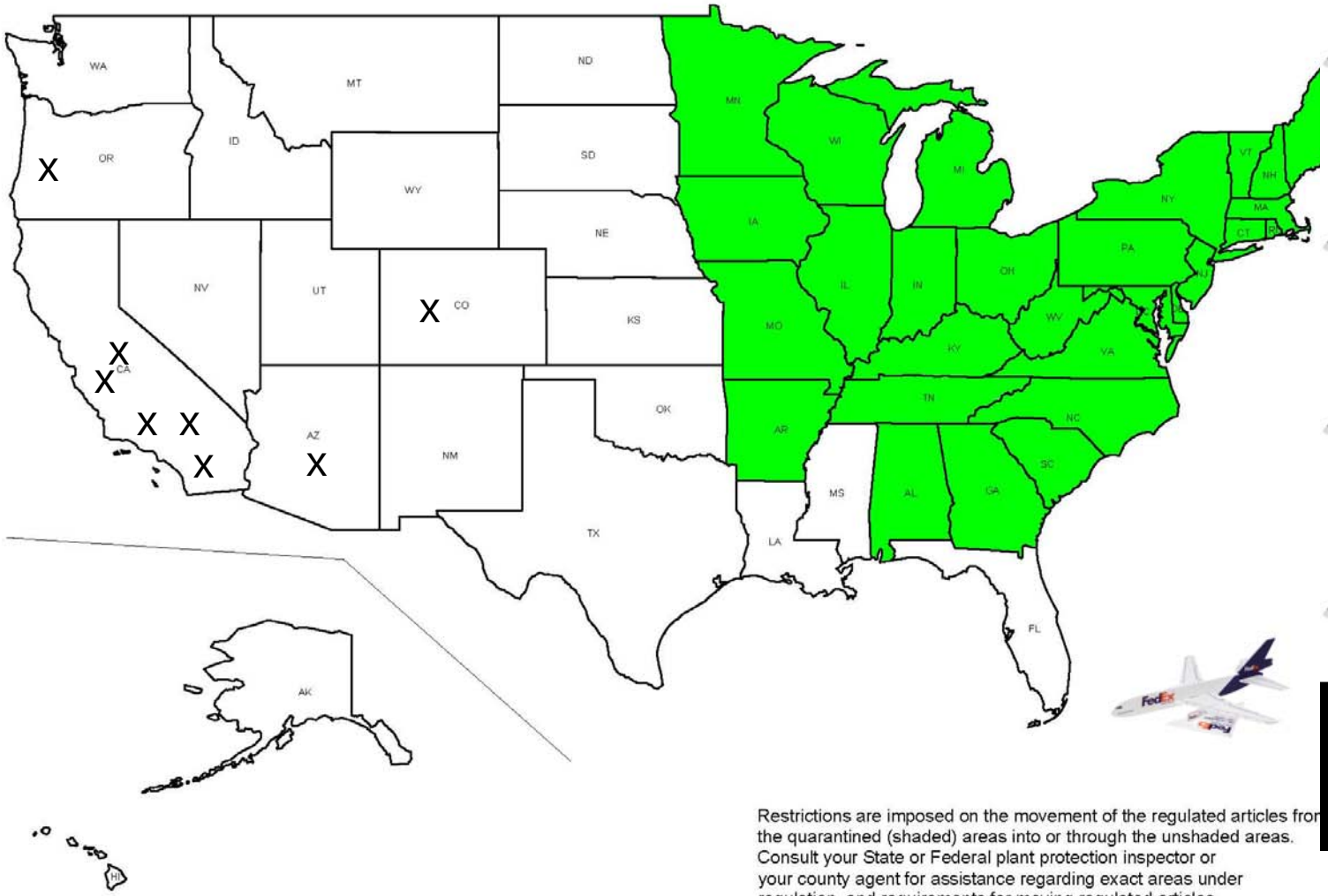
2007 INDIANAPOLIS COOPERATIVE JAPANESE BEETLE PROGARM

Indianapolis JB Cooperative Program Goal:

- Not allow Japanese Beetles to hitchhike to the western Japanese beetle protected states on aircraft originating in Indianapolis.

Japanese Beetle Regulated States



Restrictions are imposed on the movement of the regulated articles from the quarantined (shaded) areas into or through the unshaded areas. Consult your State or Federal plant protection inspector or your county agent for assistance regarding exact areas under regulation, and requirements for moving regulated articles. For detailed information, see 7 CFR 301.48 for quarantine and regulations.

March 1, 2007

Components of the Indianapolis Cooperative JB Program

- FedEx
- Indianapolis Airport Authority
- FedEx Consultants
- USDA APHIS PPQ

FedEx's Role

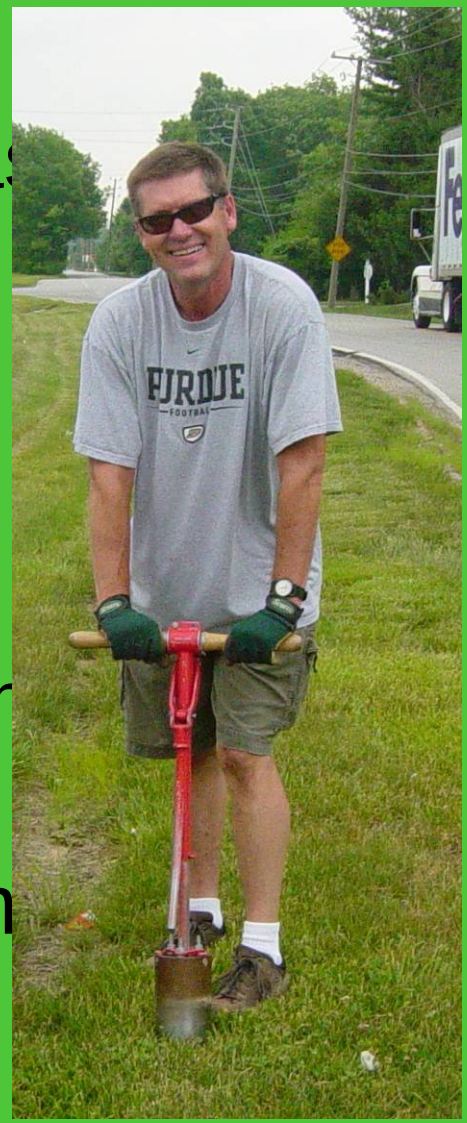
- Treat all regulated aircraft destined for Japanese beetle protected states.
- Treat all aircraft that will arrive in JB protected states within 48 hours of leaving Indianapolis.
- Use and maintain excluders to prevent Japanese beetles from entering aircraft.
- Use plastic monsoon c
- Provide approximately safeguard aircraft agai
- Invest in the knowledg Consultants.

Indianapolis Airport Authority's Role

- Manage the property around the airport.
- Only allow leased farm land near the airport to be planted in crops such as grain sorghum or switch grass instead of the Indiana standards of corn and soybeans.
- Treat JB host plant ma
  airport.
- Treat hot spo
  surveys.
- Remove hos

FedEx Consultants Role

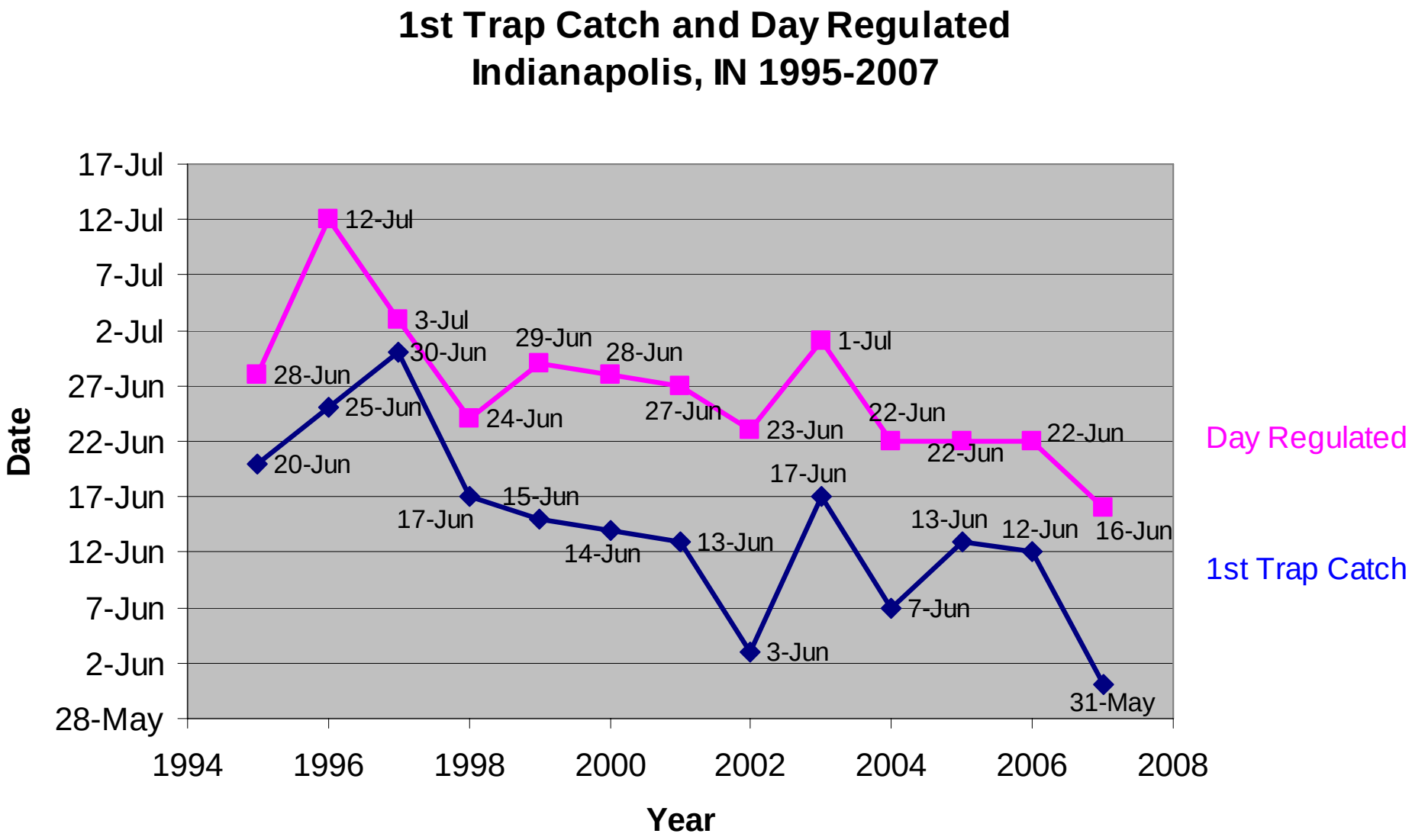
- Provide valuable insight/pre-sea planning.
- Assist with pre-season grub survey/identify grubs
- Provide safeguarding training.
- Train SIT tean ving Ter treatments.
- Troubleshoot/ ys to im cooperative pr



USDA APHIS PPQ ROLE

- Provide JB safeguarding training.
- Provide the resources of 1 PPQ officer and 4 L/A's.
- Conduct pre-season grub survey.
- Ensure all safeguards
  properly.
- Monitor beetle activity
- Troubleshoot/look for v
  program

Challenges of the 2007 Indianapolis JB Season



Factors Limiting JB Population

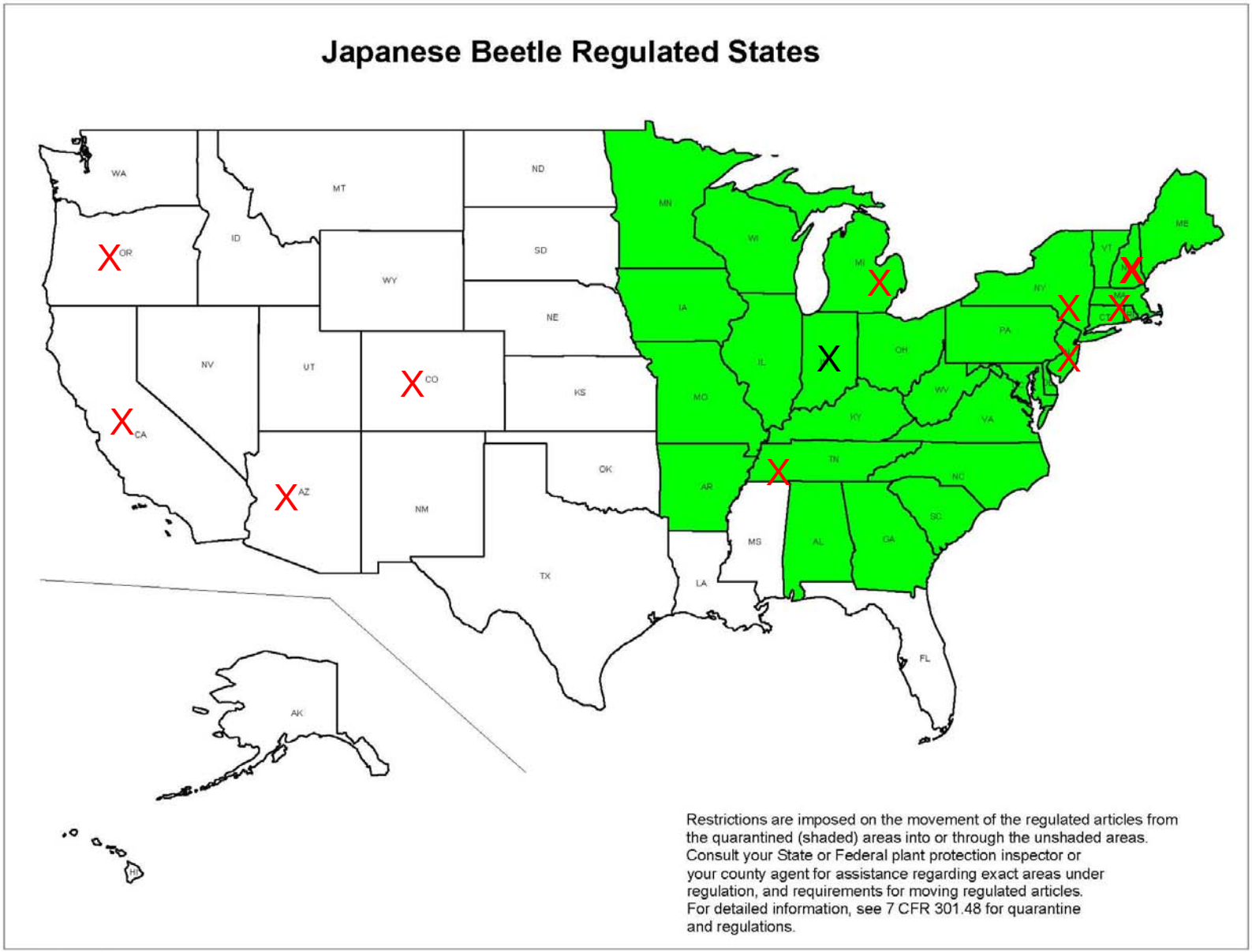
- Drought conditions during May – September (-8.75 inches)
- Airport crop practices
- Airport construction??

- Blitzing aircraft:
  -if 2 or more beetles are found on aircraft inspections.

  -if plane has been in Indy as a non-regulated flight.

  -all hangar aircraft.
- 15 minute walk arounds.
- Treat and safeguard aircraft known to be going to protected states within 48hrs as regulated aircraft.

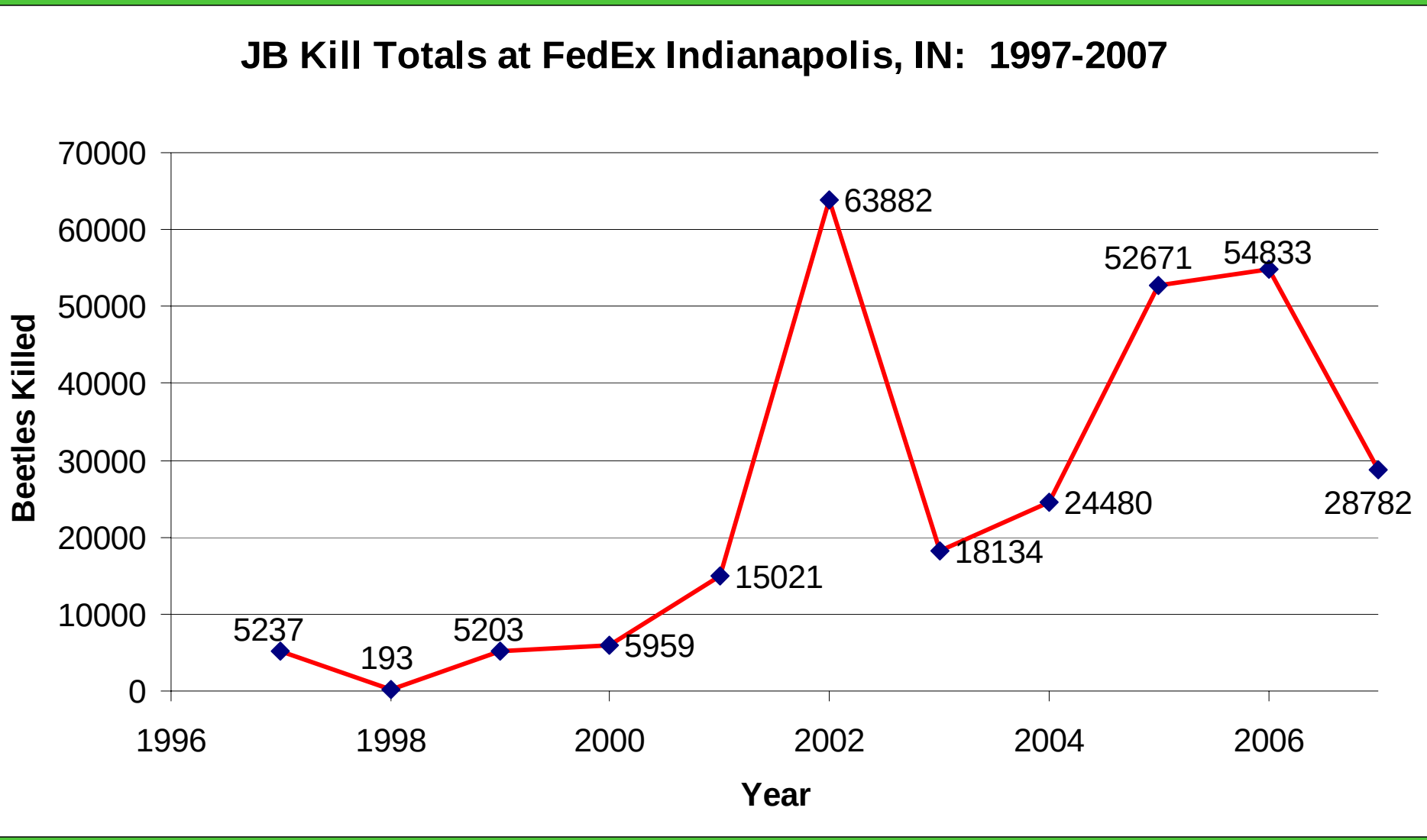
Regular 48 Hour Treated Aircraft



March 1, 2007

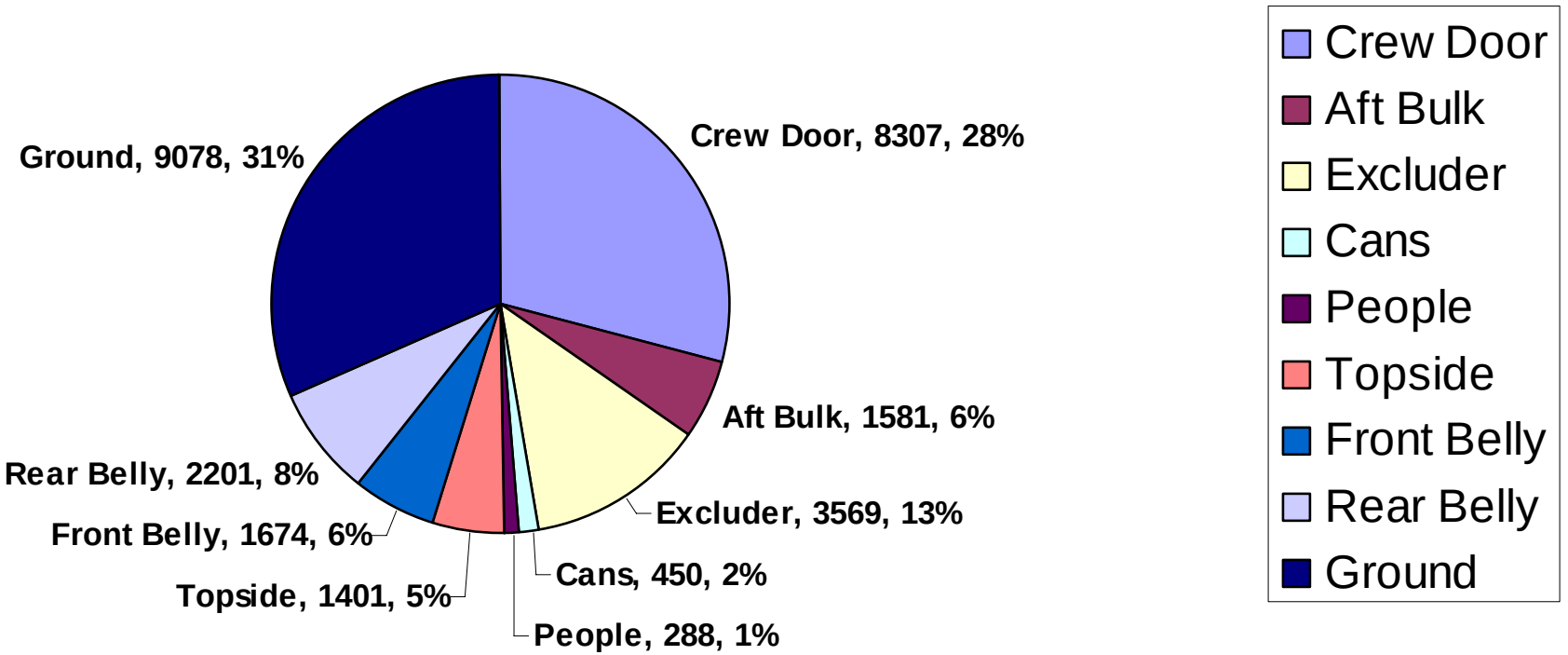
- Limit the time all aircraft openings are open to onload and offload times on non-regulated and 48hr protected flights.
- Separating demi cans.
- Park aircraft for favorable wind direction to keep beetles off main cargo door.
- Magic beans…

2007 Indianapolis Statistics



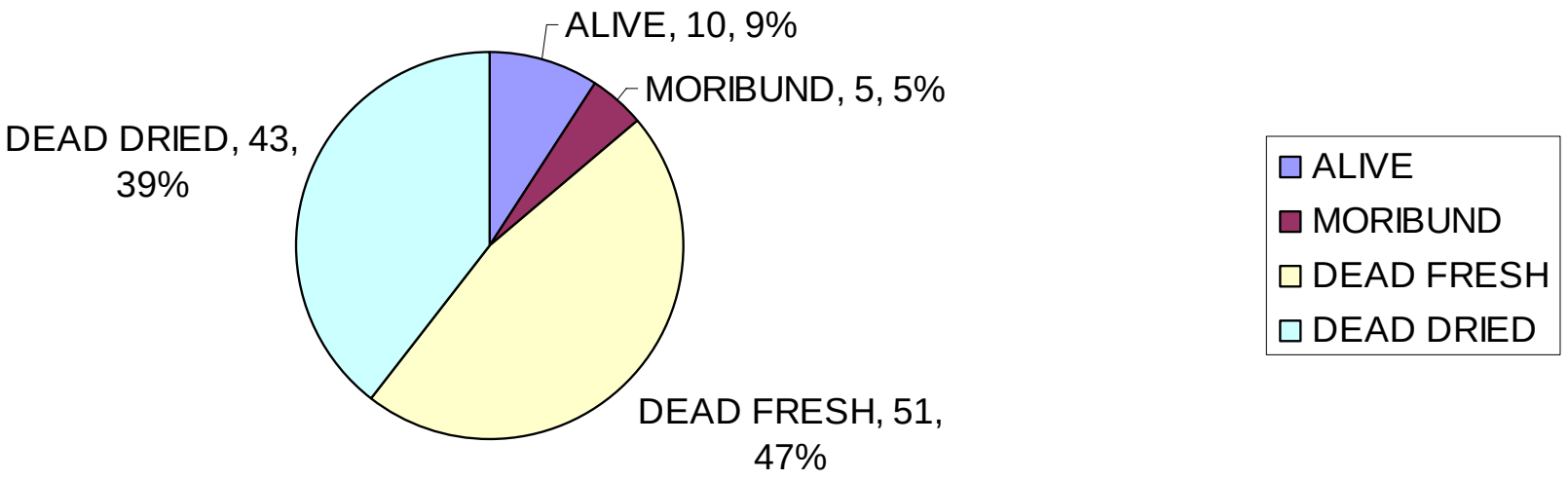
2007 was the 4th highest population in the history of the Indianapolis JB Program.

Where Beetles Were Killed on Regulated Aircraft - 2007

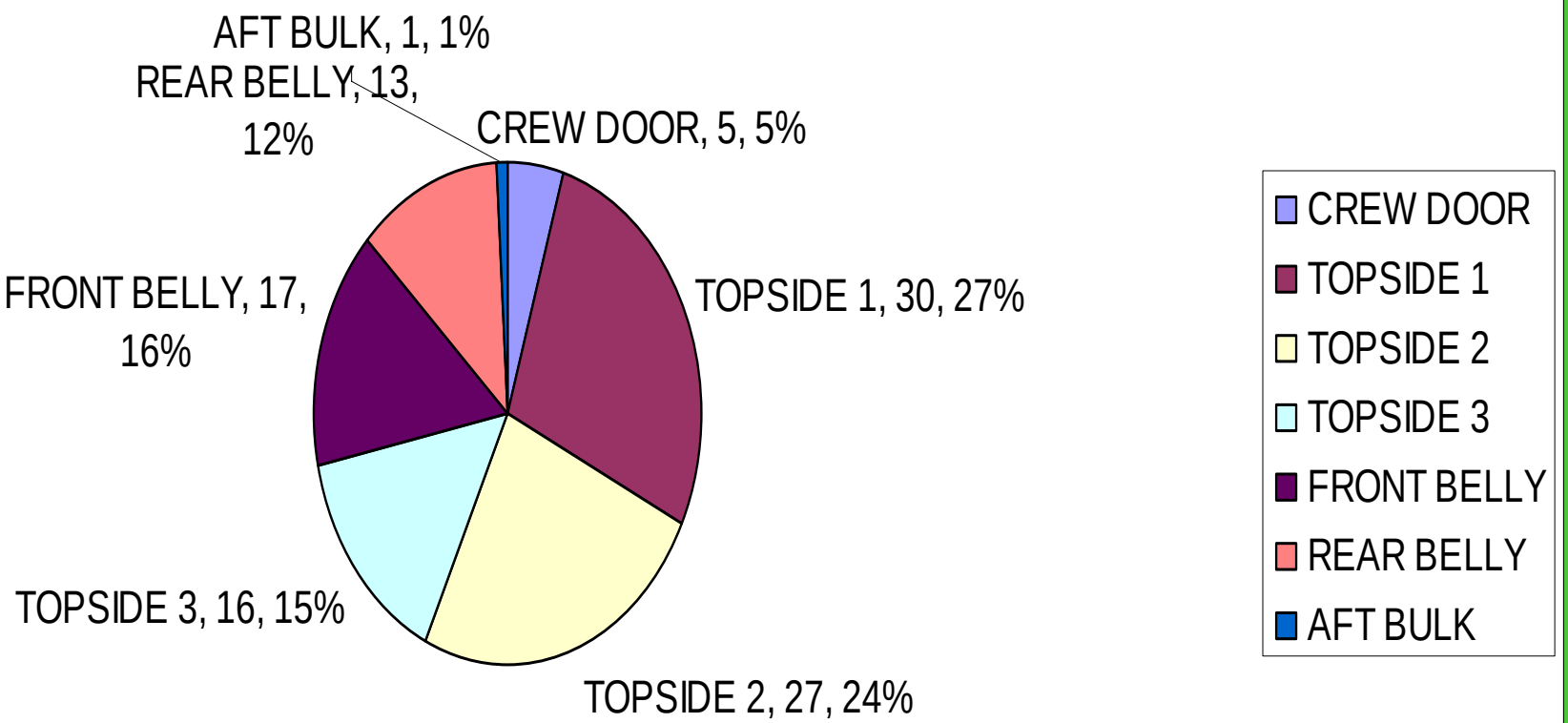


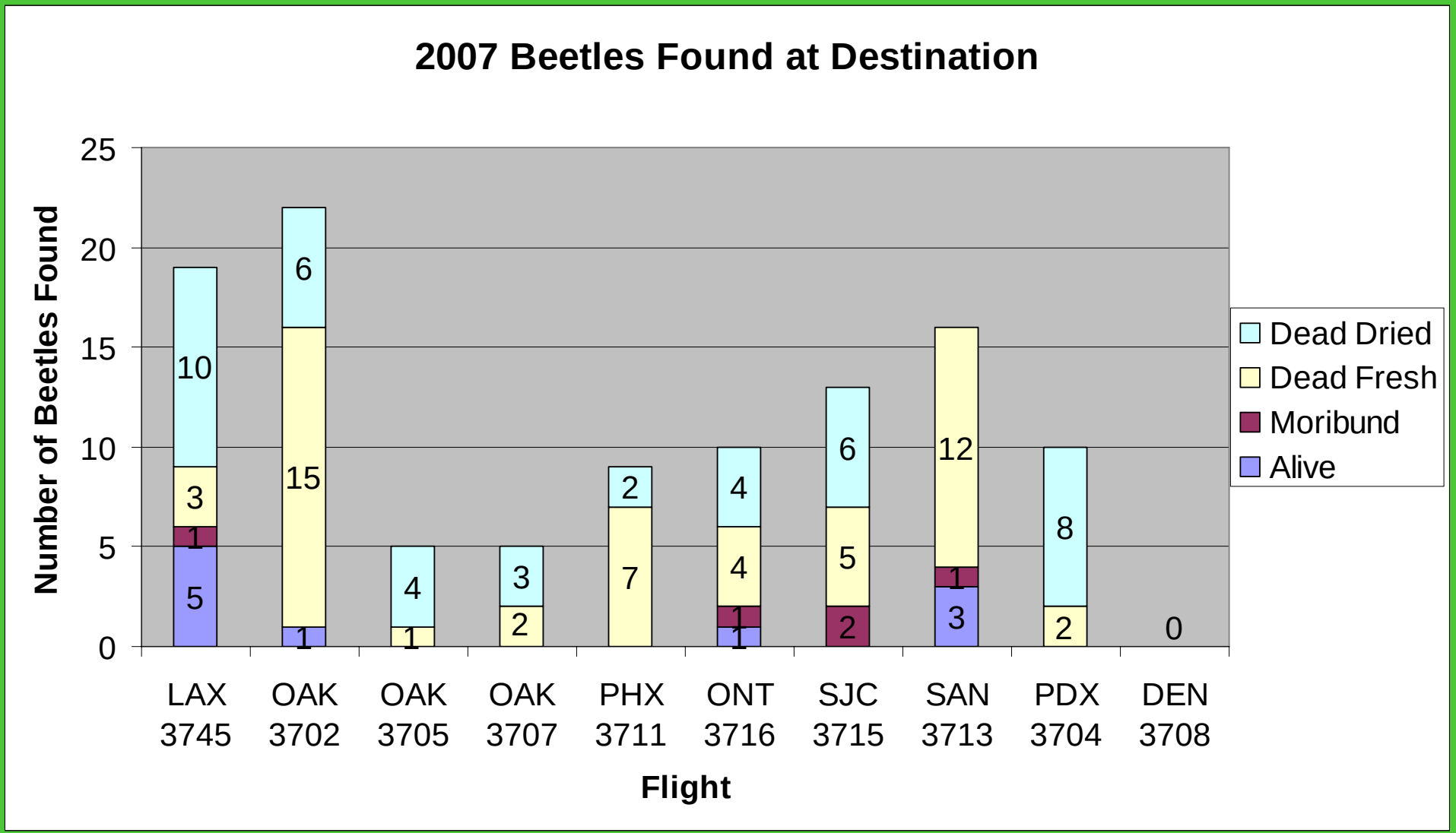
LIVE VS DEAD 2007

109 BEETLES WERE FOUND IN WESTERN JAPANESE BEETLE PROTECTED STATES ON FEDEX AIRCRAFT ORIGINATING IN INDIANAPOLIS, IN



2007 Where Beetles Were Found On Regulated Aircraft Originating at the FedEx Hub in Indianapolis, IN

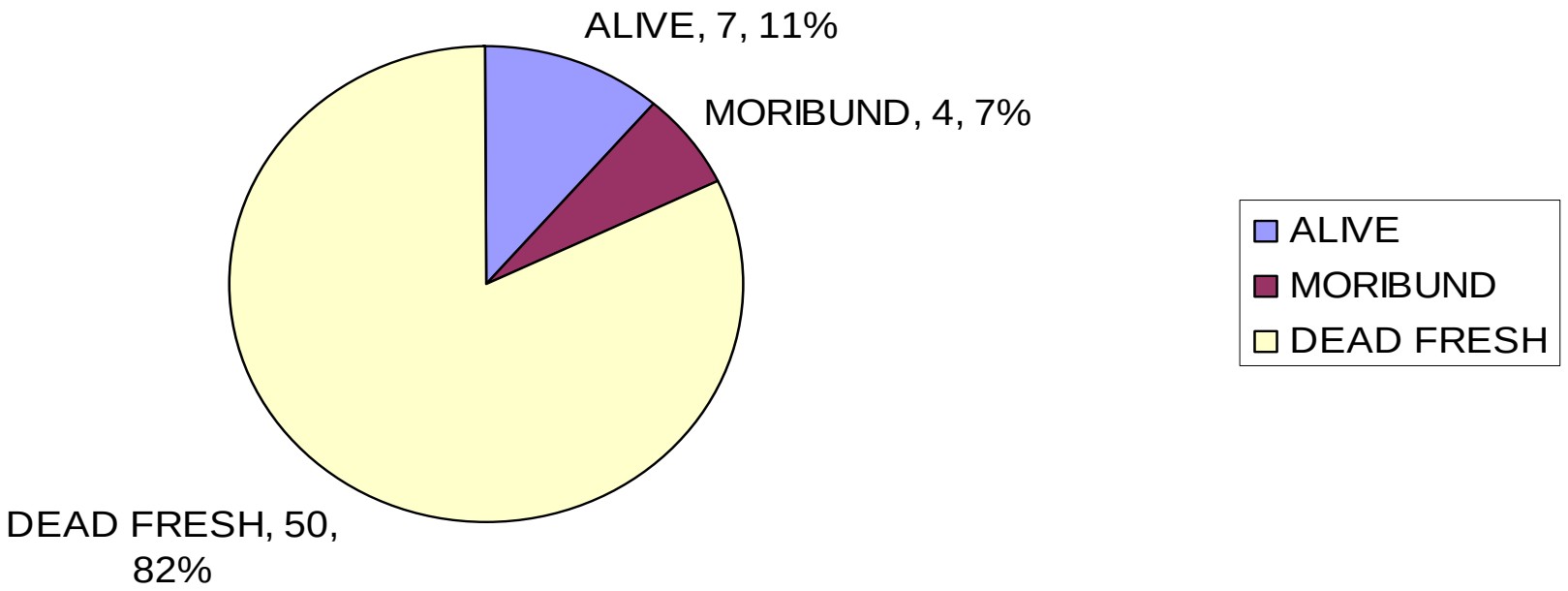



2007 Beetles Found at Destination
Number of Beetles Found
25
20
15
10
5
0
10
3
1
5
6
15
1
4
1
3
2
2
7
4
4
1
1
6
5
2
12
1
3
8
2
0
LAX 3745
OAK 3702
OAK 3705
OAK 3707
PHX 3711
ONT 3716
SJC 3715
SAN 3713
PDX 3704
DEN 3708
Flight
Dead Dried
Dead Fresh
Moribund
Alive

HOW EFFECTIVE IS TEMPO 2007

(61 BEETLES WERE EXPOSED TO TEMPO)

89% EFFECTIVE



*Two live beetles were found in the galley area and one live beetle was found on a package in the aft bulk compartment. One dead fresh and one moribund beetle were not exposed to Tempo. These beetles are not included in this graph because they were not exposed to the Tempo.