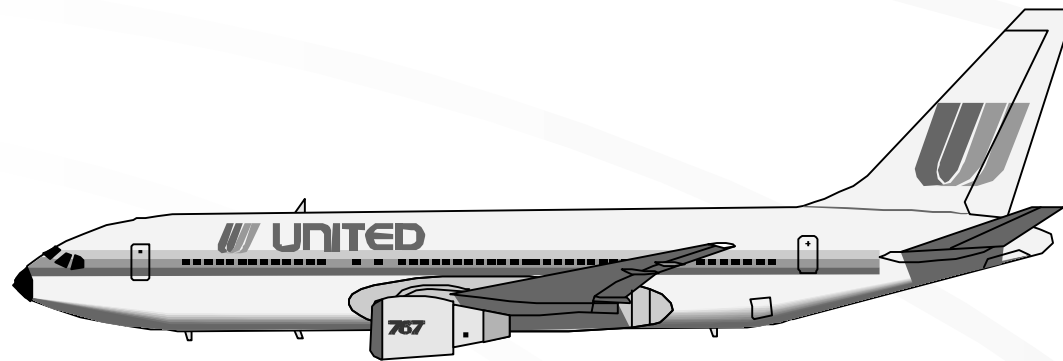
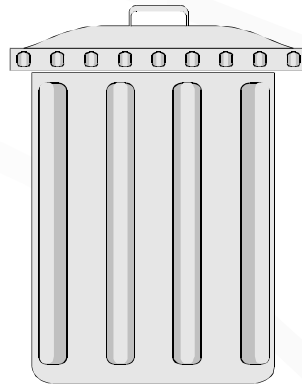


UNITED AIRLINES' FOD PROGRAM



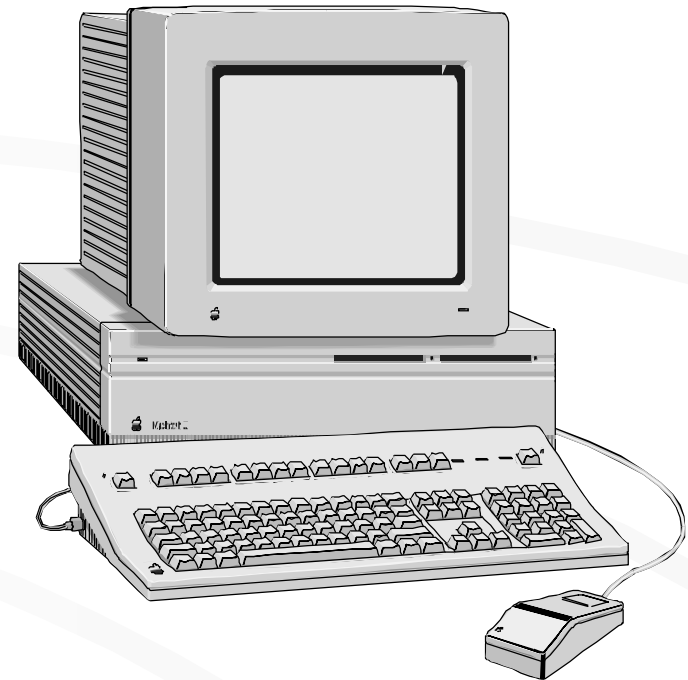
United's FOD Progra - History

- No cohesive progra
- Each line station independent
- Some stations better than others
- Packaged with many other Safety program



FOD - What can we do about it?

- Get the numbers !!!
 - Track all FOD events
 - Track all wildlife events
- Airline program
- Airport progra
 - FOD
 - Wildlife Hazard Management



FOD Tracking (pre-1999)

- Engine removals
- Delays and Cancellations
- Pilot reports



FOD Tracking (Current)

- AMIS - Aircraft Maintenance Information System
- BrioQuery
- Pilot reports & Flight Safety reporting list



FOD - 1999

- > 3,400 total events
 - \approx 2,100 FOD
 - \approx 1,300 Bird strikes
- Comparison to previous years
 - 25x increase in events
 - 10x increase in \$\$\$

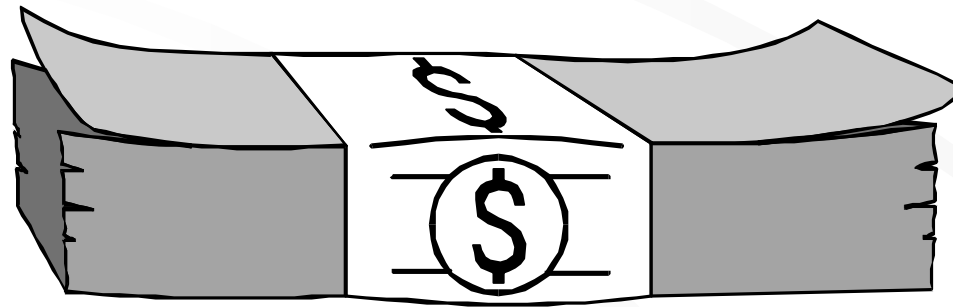
FOD - What did it cost?

- Parts and Labor
 - Tens of millions of \$\$\$ each year
- Operational
 - Hundreds of primary delays
 - Approximately 100 primary cancellations



FOD - 2000 1Q-2Q

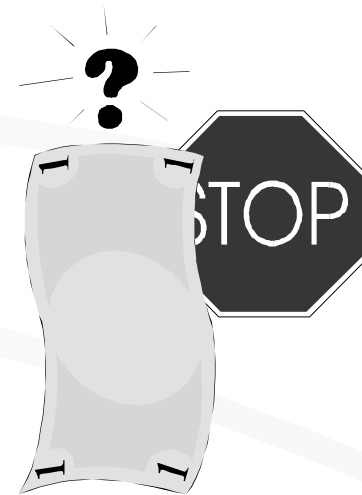
- 1,577 events (99% vs. 1999)
 - 1,012 FOD (91% vs. 1999)
 - 565 Bird strikes (117% vs. 1999)
- Cost = Millions \$\$\$
- Delays & Cancellations



United's FOD Program

How do we do it?

- Written FOD Progra
- Education & Training
- Awareness
- Recognition



United's FOD Program (cont'd.)

- Responsibilities
 - Managers & Team Leaders & Safety
 - Dispatch responsibilities
 - Mechanics / Fuelers / Ramp personnel /
Baggage handlers / Other Gate personnel
- Departure
 - Gate sweep
 - Belt-loader buckets & Gate FOD buckets
- Area clean-up (monthly / quarterly)

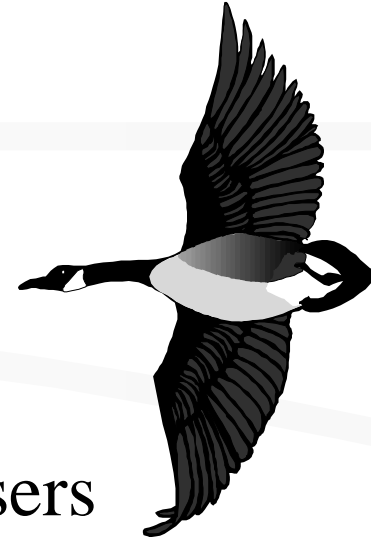
Airport FOD Progra

- Taxiways
 - Regular sweeps (location / frequency)
 - On call
- Runways
 - Morning drives
 - Annual walks (sweeps ?)
- FOD meetings
 - Include all tenants
 - FOD reports/citations



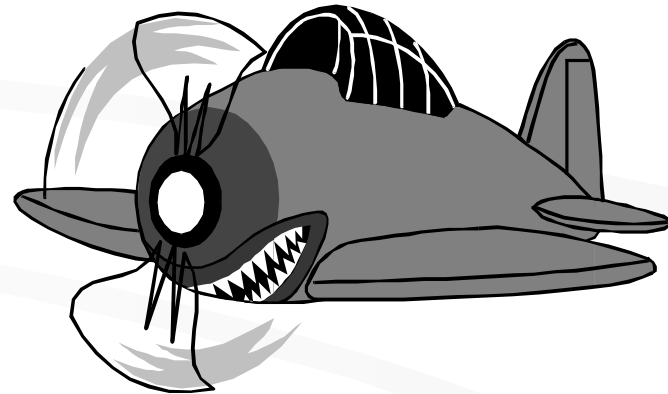
Airport Wildlife Hazard Management

- Environmental Report
- On-site active progra
 - Flares, remote cannons, noise, lasers
 - Habitat control, chemicals, filament wire
- Reports from control tower (passive)
- Airline reporting of all wildlife events



UAL's Cohesive Progra

- Gather and analyze data
- Visit stations
- Learn and share
 - Ensure programs exist
 - See what works . . . What doesn't
- Supply FOD Advertising
 - Promotional item
 - Recognition rewards



United's FOD Progra

- Questions & Comments ? ? ? ? ?

