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University of Hawaii
2008 LICH Conference & Trade Show
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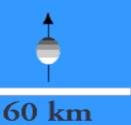
Hawaii

Kauai



Turfgrass in Hawaii is a valuable commodity







Turfgrass is Valuable

- NJ (2001)
 - 3.2 billion dollars
 - ->50,000 jobs
- MI (2002)
 - 1.9 billion dollars
 - ->30,000 jobs
- NY (2003)
 - 10.1 billion dollars

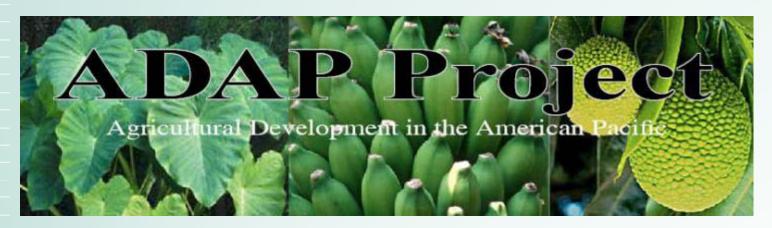


What about Hawaii?

We are different (size, climate, etc.)

- Hollyer and Cox (1987)
- All Landscape Services (not just turf)
 - Lower #s (~130 million)
- Need to update these #s to reflect changes in the past 20 years

2007 Hawaii Turfgrass Survey





Distributed Statewide

26 Questions, web-based

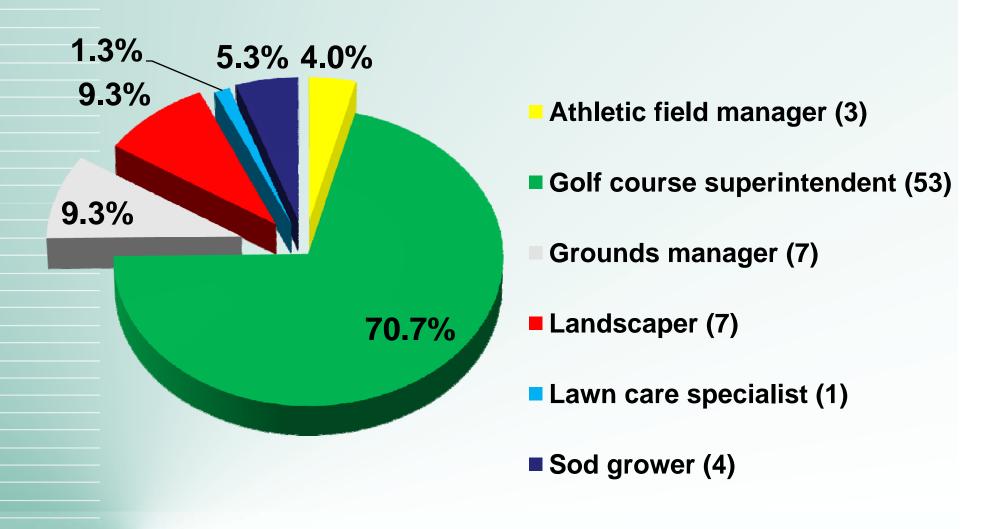
All HGCSA & LICH members

UH TurfgrassWebsite



Featured in Hawaii Landscape Magazine

Who responded?



Golf Course Data

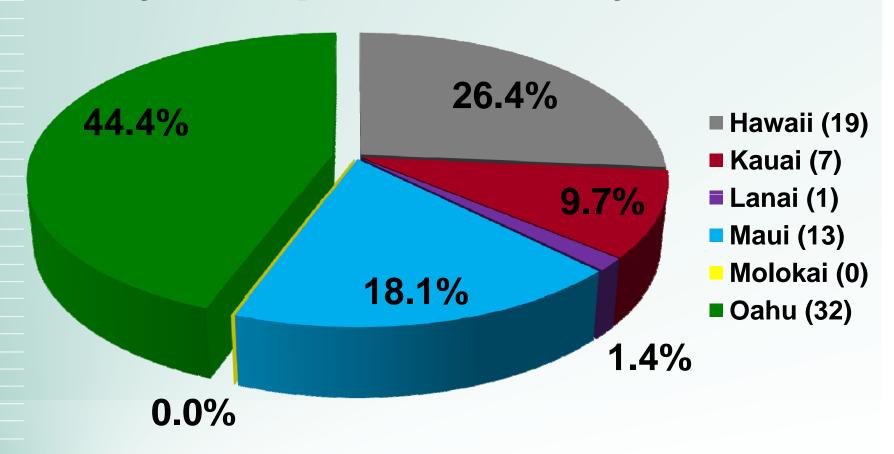
114 HGCSA members

58 Head Superintendents

Designed for head superintendents

53/58 = 92% response rate

Survey Respondents by Island



How big are we?

9,537 acres of golf course turf

 5,719 acres of golf course turf in 1987 (Hollyer & Cox)

Almost 100% increase since 1987

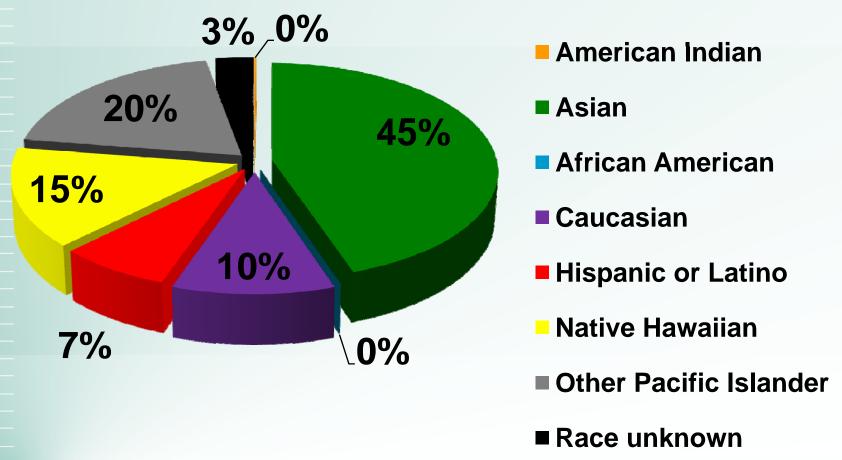
How many people do we employ?

Classification	# in 2007
Management	191
Office support	37
Labor	703
TOTAL	903
Cox & Hollyer (1987)	605

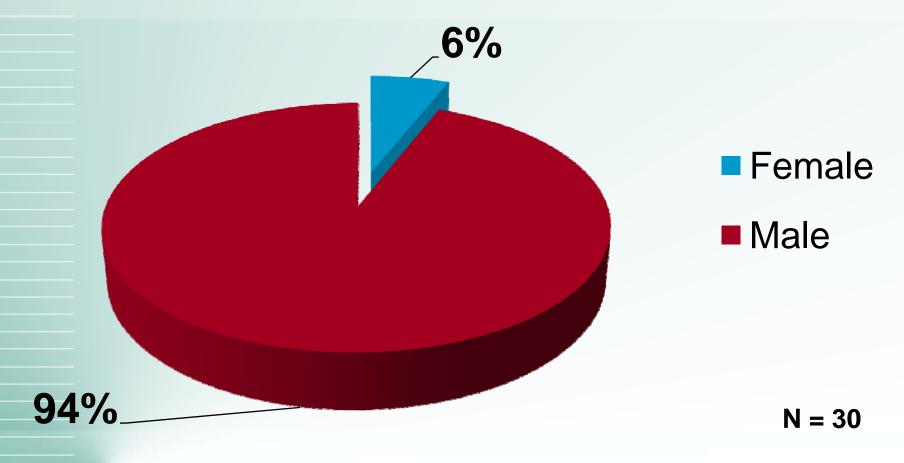
Average turnover rate (06-07) = 14% N = 30



Ethnicities of Golf Course Maintenance Employees in 2007



Gender of Golf Course Maintenance Employees in 2007



What are we growing?

Turfgrass Species	Total Acres
Bermudagrass (Common)	4168
Bermudagrass (Hybrid)	4268
Seashore paspalum	657

Over 44% of all new renovations were seashore paspalum in 2007

N = 51

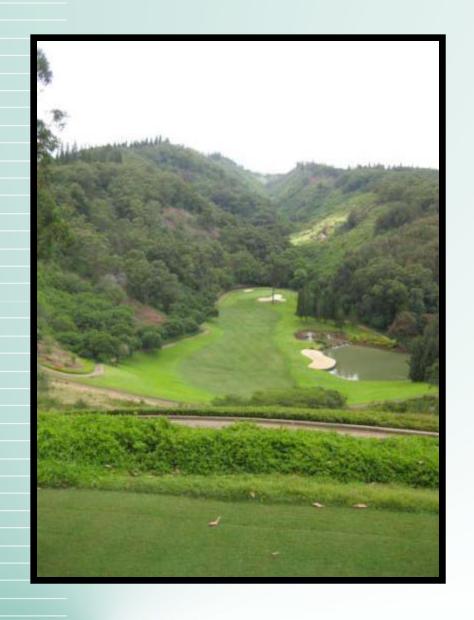


How much are we spending?

		Dollars/
Expenditure	Dollars	Acre
Maintenance	\$68.6 million	\$7,198
MI	\$83.0 million	\$866
NJ	\$111.3 million	\$2,924
NY	\$325.1 million	\$3,203

N = 37





Fewer courses +
Longer season =
More traffic

More

Cost of doing business in HI

maintenance

How much are we spending?

		Dollars/
Expenditure	Dollars	Acre
Labor	\$39.9 million	\$4,192
MI	\$126.2 million	\$1,317
NJ	\$125.6 million	\$3,297
NY	\$325.1 million	\$2,337

21 million TOTAL (Maintenance + Labor) in Hawaii in 1987

N = 35



What are we spending our money on?

2007

Expenditure	Dollars/Acre
Capital imprvmt.	\$1,207 (\$784)
Irrigation equip./repair	\$ 381 (\$51)
Equipment (new)	\$ 313 (\$342)

NY data (2003)







What else?

2007

Expenditure	Dollars/Acre
Herbicides	\$79 (\$31)
Fungicides	\$47 (\$167)
Insecticides	\$26 (\$36)
Fertilizer	\$208 (\$111)
Topdressing sand	\$83 (\$40)
Irrigation water	\$256 (\$11)

NY data (2003)





Maintenance Challenges

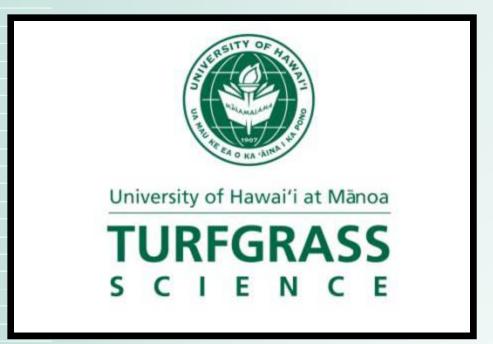
Out of 18 choices:

Weed management Labor Equipment maintenance

Educational Needs

Out of 15 choices:

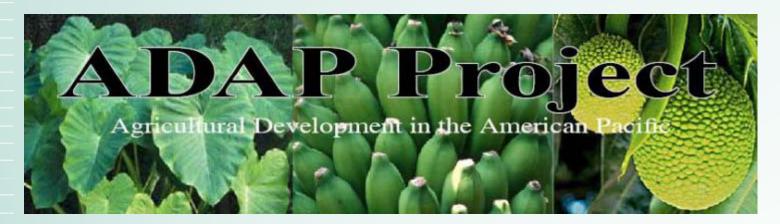
Weed management Rootzone management Equipment maintenance







Acknowledgements







University of Hawai'i at Mānoa

TURFGRASS S C I E N C E