

TURFGRASS ECONOMIC SURVEY – 2018

Golf Course Version

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United States
Department of Agriculture

NATIONAL
AGRICULTURAL
STATISTICS
SERVICE



USDA/NASS
Northeast Region
4050 Crums Mill Road
Suite 203
Harrisburg, PA 17112
Phone: 1-717-787-3904
Fax: 1-855-270-2719 Email:
nassrfoner@nass.usda.gov

Please make corrections to name, address, and ZIP Code, if necessary.

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INSTRUCTIONS:

- Report for **all** land operated, including land rented from others, in New Jersey.
- Report for all seasons (winter, spring, summer, and fall) during 2018.

A. Golf Course Information

1. Where is this golf course located? _____ County

2. Which category best describes this golf course?

For-profit

Non-profit

3. Which of the following categories best describes this golf course?
 Private Public/Daily fee Semi-private
 Governmental/Municipal Other (specify)_____
4. Are you a member of any of the following professional organizations?
New Jersey Golf Course Owners Association Yes No
New Jersey State Golf Association Yes No
Golf Course Superintendents Association of New Jersey Yes No
5. How much area did this course have in the following categories as of December 2018? Total area (include buildings)....
_____ acres or _____ square feet
Greens..... _____ acres or _____ square feet
Fairways..... _____ acres or _____ square feet
Tees..... _____ acres or _____ square feet
Roughs..... _____ acres or _____ square feet
Natural area _____ acres or _____ square feet
6. Did you expand the area under turf or facilities in 2018?
 Yes No (skip Question 7)
7. How much new area was established under the following categories in 2018?
Total area (including buildings) _____ acres or _____ square feet
Turf area (fairways, greens, tees, rough, and natural area) _____ acres or _____ square feet
8. How many golf holes are at this course? _____
9. How many rounds of golf were played in 2018 at this course? _____ 9-hole rounds
_____ 18-hole rounds

B. Turfgrass Specific

10. Please indicate the % of turf area under the following turfgrass varieties on this property?
_____ % Kentucky Bluegrass _____ % Perennial Ryegrass _____ % Annual Bluegrass
_____ % Fine Fescue _____ % Tall Fescue _____ % Bentgrass
_____ % Zoysia _____ % Other/Mixture _____ Don't know
11. What are the important sources of information for your turf-related problems? (Select all that apply).
 Rutgers Cooperative Extension Agent or Specialist Cook College Office of Continuing Professional Education
 Rutgers University (other) Private consultant
 Commercial Tech Rep. Peers
 Industry magazines Professional Organization
 Internet TV/Radio
 Books USGA Turf Advisory Svc.
 Lawn & Landscape Contractor Other (specify)_____

C. Turf and Landscape Problems

12. What do you consider to be difficult turf and landscape related problems facing your organization? (Select all that apply under each category).

a. Regulation

- Local noise ordinances Water restrictions Signposting (chemical applications)
- Pesticide application (amount, type of chemical) Other (specify) _____

b. Management

- Labor availability Immigration laws Employee training
- Health issues due to turf activity (i.e., poisoning, etc.) Language barriers
- Other (specify) _____

c. Turfgrass

- Soil related Diseases Insects
- Weeds Equipment Cost Erosion
- Water related Shade Traffic
- Other (specify) _____

13. Which do you anticipate to be the major turf-related problems 5 years from now? (Select all that apply under each category).

a. Regulation

- Local noise ordinances Water restrictions Signposting (chemical applications)
- Pesticide application (amount, type of chemical) Other (specify) _____

b. Management

- Labor availability Immigration laws Employee training
- Health issues due to turf activity (i.e., poisoning, etc.) Language barriers
- Other (specify) _____

c. Turfgrass

- Soil related Diseases Insects
- Weeds Equipment Cost Erosion
- Water related Shade Traffic
- Other (specify) _____

D. Expenses

14. **Best Estimate of annual turf-related expenses during the year 2018 (to the nearest \$1,000):**

- a) **Seed** \$ _____
- b) **Sod**..... \$ _____
- c) **Equipment and Operation (exclude labor)**
 - Tractors (depreciation)..... \$ _____
 - Mowers (depreciation)..... \$ _____
 - Irrigation equipment (depreciation)..... \$ _____
 - Application equipment (depreciation)..... \$ _____
 - Other equipment (depreciation)..... \$ _____
 - Vehicles (depreciation)..... \$ _____
 - Fuel, lube and electricity..... \$ _____
 - Repairs and maintenance..... \$ _____
 - Equipment rental..... \$ _____

b) Chemicals

Weed control products.....\$ _____

Insect control products.....\$ _____

Disease control products.....\$ _____

Plant-growth regulators.....\$ _____

Other.....\$ _____

c) Fertilizer and Soil Amendments

Fertilizer\$ _____

Organic Fertilizer\$ _____

Lime.....\$ _____

Manure and compost.....\$ _____

Other.....\$ _____

d) Labor (salaries/wages, not taxes)

Operation wages/salaries.....\$ _____

Supervisory wages/salaries.....\$ _____

Mechanics/Maintenance wages/salaries.....\$ _____

Clerical/sales wages/salaries.....\$ _____

e) Services purchased

Chemical/fertilizer application.....\$ _____

Sod installation.....\$ _____

Irrigation installation.....\$ _____

Other contract labor.....\$ _____

f) Other direct turf-related expenses (Specify)

.....\$ _____

.....\$ _____

g) Total Turf-related Expenses \$ _____

15. Equipment/supplies purchased in 2018 from vendors outside of New Jersey was _____% of total expense.
16. What was the estimated value of turf-related buildings and land owned and used by this course as of December 2018 (to the nearest \$1,000)? \$ _____
17. What was the estimated value of turf-related equipment owned and used by this course as of December 2018 (to the nearest \$1,000)? (include tractors, mowers, etc.) \$ _____
18. How many total positions did this golf course have in 2018? _____ employees
19. What percentage of this golf course's total workforce do the following categories represent?
- Year round full-time _____%
 - Seasonal full-time _____%
 - Year round part-time _____%
 - Seasonal part-time _____%
20. Please indicate the percentage of total hours devoted to turf-related activities by the following employees (include maintenance of turf related equipment also).
- Year round full-time _____%
 - Seasonal full-time _____%
 - Year round part-time _____%
 - Seasonal part-time _____%

21. What was the total expenditure on new ornamental plantings in 2018 (to the nearest \$1,000)?
- a) Shrubs..... \$ _____
 - b) Trees..... \$ _____
 - c) Flowers..... \$ _____
 - d) Other \$ _____
 - e) Total. \$ _____
22. What was the total expenditure on the services of ornamental plantings in 2018 (to the nearest \$1,000)?
- a) Installation of plantings (shrubs/trees/flowers)..... \$ _____
 - b) Pruning/cutting..... \$ _____
 - c) Herbicides..... \$ _____
 - d) Insecticides..... \$ _____
 - e) Other pesticides..... \$ _____
 - f) Fertilization in liquids and granules..... \$ _____
 - g) Irrigation parts and accessories (includes sprinklers, valves, hoses, etc)..... \$ _____
 - h) Landscape materials (mulch, hardscaping, rock, fence, others)..... \$ _____
 - i) Training and training materials..... \$ _____
 - j) Other (specify)..... \$ _____
 - k) Total..... \$ _____

E. Cultural Practices and Equipment

23. Person(s) responsible for turf care at this golf course?
 Hired maintenance contractor Employees
24. Person(s) responsible for maintenance of ornamental plantings at this golf course?
 Hired maintenance contractor Employees
25. What is the average interval between mowings for the following turf areas?
Greens _____days Tees _____days Fairways _____days Rough _____days
26. What is the irrigated turf area on this property? _____ acres or _____% of total turf area
27. What type of equipment is used to water the turf? (Select all that apply).
 Hoses and sprinklers Installed sprinklers, manual
 Installed sprinklers, automatic Other/Combination (specify) _____
28. How do you monitor the water needs of turf on your site?
 Inspection Soil Probing Other (specify)_____
29. How often do you monitor the water needs of turf on your site?
 Daily Every other day Twice per week
 Weekly Other (specify)_____
30. Do you regulate the amount of water being applied to turf on your site?
 Yes No
31. In the growing season, what is the average interval between waterings without rain under the following turf areas?
Greens _____days Tees _____days Fairways _____days Rough _____days
32. What is the length of time you typically water when irrigating the following turf areas?
Greens _____ hours Tees _____ hours Fairways _____ hours Rough _____ hours
33. What was the total amount of water applied to this golf course in 2018? _____ gallons

34. On average, how much water per year was applied to this golf course during the past five years? _____ gallons
35. What are the sources of water used? (indicate percentage provided by each)
 _____ % Municipal _____ % Recycled _____ % Wells
 _____ % Surface water _____ % Other (specify) _____
36. Please indicate the proportion of your total turf area receiving fertilizer applications:
 _____ % 1-2 times per year
 _____ % 3-4 times per year
 _____ % 5-6 times per year
 _____ % 7 or more times per year
37. Please indicate the proportion of your total turf area receiving other chemical (e.g., insecticides, herbicides, etc.) applications:
 _____ % 1-2 times per year
 _____ % 3-4 times per year
 _____ % 5-6 times per year
 _____ % 7 or more times per year
38. What % of your total fungicide budget is spent on the following diseases?
 _____ % Dollar Spot _____ % Brown Patch _____ % Anthracnose
 _____ % Summer Patch _____ % Leaf Spot _____ % Pythium Blight
 _____ % other (specify) _____ _____ Don't know
 _____ % other (specify) _____
39. Which practices are performed on your turf? (Select all that apply).
- | | | |
|---------------------------------------------|------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> Biological control | <input type="checkbox"/> Aeration | <input type="checkbox"/> Correct drainage |
| <input type="checkbox"/> Soil test | <input type="checkbox"/> Soil amendments | <input type="checkbox"/> Top-dressing |
| <input type="checkbox"/> Dethatching | <input type="checkbox"/> Edging | <input type="checkbox"/> Clipping removal |
| <input type="checkbox"/> Overseeding | <input type="checkbox"/> Turf selection | <input type="checkbox"/> Initial laying of sod |
| <input type="checkbox"/> Mowing | <input type="checkbox"/> Weed Control | <input type="checkbox"/> Disease Control |
| <input type="checkbox"/> Insect Control | <input type="checkbox"/> Other (specify) _____ | |

F. Opinion

40. Will this golf course be increasing the area under turf over the next 5 years?
 Definitely will Probably will Not sure
 Probably will not Definitely will not
- If so, how much will you expand your turf area? _____ acres
41. Is it important to develop turfgrasses that require less pesticide inputs?
 Yes No Don't know
42. Is it important to develop turfgrasses that use less water?
 Yes No Don't know
43. Do you know what Integrated Pest Management (IPM) is?
 Yes No

57. What was the total revenue of golf operations during 2018 for each of the following (to the nearest \$1,000)?

Member dues..... \$ _____
 Greens fees..... \$ _____
 Cart revenue..... \$ _____
 Driving range..... \$ _____
 Other (specify)..... \$ _____
 Total Revenue..... \$ _____

OFFICE USE ONLY

Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID				
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est 6-Inac – Est 7-Off Hold – Est	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-PASI (Mail) 2-PATI (Tel) 33-PAPI (Face- toFace) 6-Email 7-Fax 19-Other	9903	9998	9900	9985	9989				
									_____ - _____ - _____				
									Optional Use				
							R. Unit						
							9921	9907	9908	9906	9916		
S/E Name													