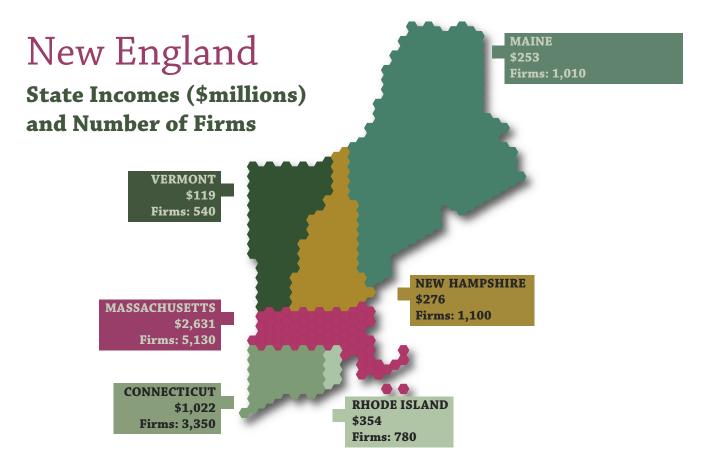


February 2009

Sponsored by: New England Nursery Association

Conducted by: University of Vermont Extension

University of Maine Cooperative Extension



\$4.7 Billion & Growing

Environmental Horticulture in New England



is *many* types of businesses...

There are more than 11,900 firms in the region. These include wholesale and retail nurseries and greenhouses, plus retail garden centers and florists. The largest sector comprises those providing landscape, lawn, and tree services. The **industry** is **diverse**, with over half of firms involved in two or more types of business.



is growing...

Income increased an average 25 percent per firm, for over 6000 firms. Over the last three year period, industry income grew for 56 percent of firms over the region. Over the last six years, industry income has grown 15 percent.



produces and sells plants...

Four out of five firms sell plants, with half the total regional income from plant sales. Half of firms sell plants grown totally or at least partially by them, comprising 60 percent of total plant sale income.



provides many jobs...

An estimated 156,000 people are employed in this industry. An additional 28,000 employees are needed with 14,000 of those being full time positions. More than half are fully employed, with an estimated 85,000 jobs being full time. This industry paid an estimated \$2.0 billion to employees in 2007 including benefits, almost half (43 percent) of region income. Over a three year period from 2004 to 2007, an average 34 percent more was spent on labor per firm. More than half the firms spent more on labor.



supports the economy...

Businesses in this industry paid almost \$450 million in taxes in 2007. Taxes increased for over half the firms. The average increase per firm was 30 percent.



protects agricultural land and green space...

This industry is keeping more than 221,000 acres in agriculture, of which almost half is open space and almost a third is in a land preservation program.

Environmental Horticulture is a solid part of New England's agriculture sector.

The value added to our local economy through New England's wholesale nursery and greenhouse growers, retail garden centers and florists, landscape and tree care professionals in 2007 reached nearly \$4.7 billion. Additionally, the Environmental Horticulture Industry substantially impacts the region through active stewardship of the environment.

This study surveyed New England's Environmental Horticulture Industry–comprising more than 11,900 businesses that earn at least half their income from green industry activities. The results clearly quantify the many positive ways this industry affects the regional economy including volume of business, cost of doing business, employment opportunities, tax contributions and future growth potential.

The industry is made up of multi-generation, family businesses whose hard work in challenging conditions has put New England on the map as producing the country's hardiest plants. Their success, coupled with that of expert growers, cutting-edge garden centers, innovative landscape contractors and designers, progressive tree care professionals and other visionary members of the regional green industry, promises a continuing bright future for Environmental Horticulture in New England.



Environmental Horticulture We grow, sell, install, maintain and preserve the living landscape.



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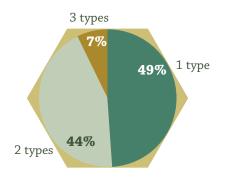
12 Rhode Island

Plant sales make up 82 percent of total state industry income.

14 Vermont

Over two-thirds of firms paid more taxes over the past three years.

Percent of firms in one or more types of business



Connecticut \$1.0 Billion

Environmental Horticulture is a major sector of agriculture in Connecticut. There are more than 3,350 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

54%

INCREASE

23%

DECREASE

23%

SAME

The Environmental Horticulture industry produces income. The estimated value in Connecticut for 2007 is \$1.022 billion in gross income.

- Similar to the previous survey in 2004, income has grown for more than half of firms.
- Over the three year period, between 2004 and 2007, more than **1,800 firms increased their income.** The average increase per firm was 17 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

51%

FULL TIME

10%

PART TIME

39%

SEASONAL.

Environmental Horticulture provides MANY jobs. At least 48,000 people are employed in this industry. An additional 5,800 are needed.

- Half of those in this industry are fully employed. An estimated **24,000 jobs** are full time. An additional 3,300 are needed.
- This industry paid an estimated \$490 million to employees in 2007 including benefits, almost half (48 percent) of state income.
- More than half the businesses (56 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 15 percent.

67%

LANDSCAPE & TREE SERVICES

49%

RETAIL

39%

WHOLESALE PRODUCTION/SALES

14%

OTHER

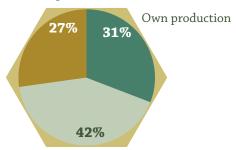
Environmental Horticulture is diverse.

Three-quarters of firms offer, derive income from, and provide jobs in, landscape and tree services.



Income from plant sales





Pre-finished plants

Plant production and sales are a significant part of the Environmental Horticulture industry. Plant sales generate over \$583 million.

This includes:

- \$181 million from plants produced totally by the seller. Almost a third of firms selling plants grew many from start to finish.
- \$245 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$157 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$426 million.** A majority of firms (89 percent) sell plants.

More facts about

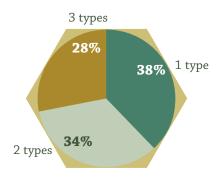
More facts about Environmental Horticulture in

Connecticut

- The industry is keeping more than 46,000 acres in agriculture, of which 23 percent is open space and at least 3 percent is in a land preservation program.
- Businesses in this industry paid an estimated \$150 million in taxes in 2007. Over half the firms (61 percent) reported an increase in taxes paid. The average increase per firm was 19 percent.
- The top three major concerns expressed by a majority of this industry were energy costs, health care costs, and immigration/ labor issues.

Maine \$253 Million

Percent of firms in one or more types of business



Environmental Horticulture is a major sector of agriculture in Maine. There are more than 1,010 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

60%

INCREASE

16%

DECREASE

24%

SAME

The Environmental Horticulture industry produces income. The estimated value in Maine for 2007 is \$253 million in gross income.

- Similar to the previous survey in 2004, income has grown for almost twothirds of firms.
- Over the three year period, between 2004 and 2007, more than **600 firms increased their income.** The average increase per firm was 25 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

40%

FULL TIME

8%

PART TIME

52%

SEASONAL

Environmental Horticulture provides MANY jobs. At least 12,000 people are employed in this industry. An additional 1,300 are needed.

- Almost half of those in this industry are fully employed. An estimated **4,800 jobs are full time.** An additional 240 are needed.
- This industry paid an estimated **\$110 million to employees** in 2007 including benefits, almost half (43 percent) of state income.
- Two-thirds of the businesses (68 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 15 percent.

76%

LANDSCAPE & TREE SERVICES

66%

RETAIL

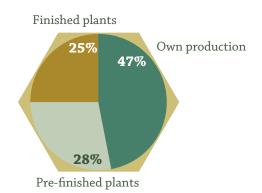
48%

WHOLESALE PRODUCTION/SALES



Environmental Horticulture is diverse. Three-quarters of firms offer, derive income from, and provide jobs in, landscape and tree services.

Income from plant sales



Plant production and sales are a significant part of the Environmental Horticulture industry. Plant sales generate over \$101 million.

This includes:

- \$47 million from plants produced totally by the seller. Over half of firms selling plants grew many from start to finish.
- \$28 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$25 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$75 million.** A majority of firms (83 percent) sell plants.

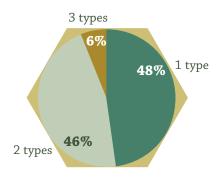
sell plants.



- More facts about Environmental Horticulture in
 - Maine
 - The industry is keeping an estimated 17,200 acres in agriculture, of which 47 percent is open space and 36 percent is in a land preservation program.
 - Businesses in this industry paid an estimated \$21 million in taxes in 2007. Over half the firms (61 percent) reported an increase in taxes paid. The average increase per firm was 32 percent.
 - The top three major concerns as expressed by this industry were energy costs, health care costs, and immigration/labor issues.

Massachusetts \$2.6 Billion

Percent of firms in one or more types of business



Environmental Horticulture is a major sector of agriculture in Massachusetts. There are more than 5,130 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

50%

INCREASE

24%

DECREASE

26%

SAME

The Environmental Horticulture industry produces income. The estimated value in Massachusetts for 2007 is \$2.631 billion in gross income.

- Similar to the previous survey in 2004, income has grown for at least half of firms.
- Over the three year period, between 2004 and 2007, more than 2,600 firms increased their income. The average increase per firm was 31 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

63%

FULL TIME

18%

PART TIME

19%

SEASONAL

Environmental Horticulture provides MANY jobs. At least 68,000 people are employed in this industry. An additional 14,000 are needed.

- Almost two-thirds of those in this industry are fully employed. An estimated **43,000 jobs are full time.** An additional 7,500 are needed.
- This industry paid an estimated **\$1.03 billion to employees** in 2007 including benefits, over a third (39 percent) of state income.
- Almost half the businesses (46 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 40 percent.

78%

LANDSCAPE & TREE SERVICES

48%

RETAIL

28%

WHOLESALE PRODUCTION/SALES

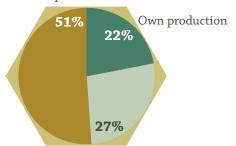
16%

OTHER



Income from plant sales





Pre-finished plants

Plant production and sales are a significant part of the Environmental Horticulture industry. Plant sales generate over \$1.3 billion.

This includes:

- \$284 million from plants produced totally by the seller. Almost a third of firms selling plants grew many from start to finish.
- \$348 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$657 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$632 million.** A majority of firms (74 percent) sell plants.



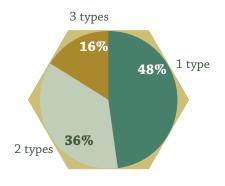
More facts about Environmental Horticulture in

Massachusetts

- The industry is keeping an estimated 90,000 acres in agriculture, of which 38 percent is open space and 40 percent is in a land preservation program.
- Businesses in this industry paid an estimated \$225 million in taxes in 2007. Almost half the firms (43 percent) reported an increase in taxes paid. The average increase per firm was 18 percent.
- The top three major concerns as expressed by this industry were energy costs, health care costs, and immigration/labor issues.

New Hampshire \$276 Million

Percent of firms in one or more types of business



Environmental Horticulture is a major sector of agriculture in New Hampshire. There are more than 1,100 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

48%

INCREASE

30%

DECREASE

22%

SAME

The Environmental Horticulture industry produces income. The estimated value in New Hampshire for 2007 is \$276 million in gross income.

- Similar to the previous survey in 2004, income has grown for at least half of firms.
- Over the three year period, between 2004 and 2007, more than **530 firms increased their income.** The average increase per firm was 17 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

43%

FULL TIME

21%

PART TIME

36%

SEASONAL

Environmental Horticulture provides MANY jobs. At least 12,000 people are employed in this industry. An additional 1,100 are needed.

- Almost half of those in this industry are fully employed. An estimated **5,000 jobs are full time.** An additional 400 are needed.
- This industry paid an estimated **\$140 million to employees** in 2007 including benefits, almost half (46 percent) of state income.
- Two-thirds of the businesses (53 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 23 percent.

72%

LANDSCAPE & TREE SERVICES

56%

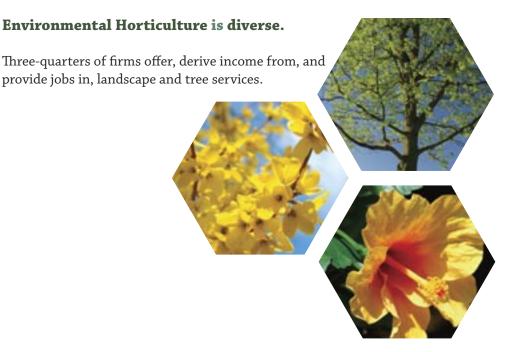
RETAIL

40%

WHOLESALE PRODUCTION/SALES

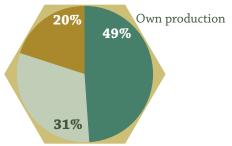
24%

OTHER



Income from plant sales





Pre-finished plants

Plant production and sales are a significant part of the Environmental Horticulture industry. Plant sales generate over \$146 million.

This includes:

- \$72 million from plants produced totally by the seller. Almost half of firms selling plants grew many from start to finish.
- \$45 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$29 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$117 million.** A majority of firms (84 percent) sell plants.



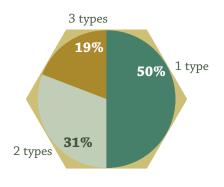
More facts about Environmental Horticulture in

New Hampshire

- The industry is keeping an estimated 25,000 acres in agriculture, of which 68 percent is open space and 36 percent is in a land preservation program.
- Businesses in this industry paid an estimated \$15 million in taxes in 2007. Over one third of the firms (36 percent) reported an increase in taxes paid. The average increase per firm was 39 percent.
- The top three major concerns as expressed by this industry were energy costs, health care costs, and immigration/labor issues.

Rhode Island \$354 Million

Percent of firms in one or more types of business



Environmental Horticulture is a major sector of agriculture in Rhode Island. There are more than 780 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

69%

INCREASE

12%

DECREASE

19%

SAME

The Environmental Horticulture industry produces income. The estimated value in Rhode Island for 2007 is \$354 million in gross income.

- Similar to the previous survey in 2004, income has grown for about two-thirds of firms.
- Over the three year period, between 2004 and 2007, more than **540 firms increased their income.** The average increase per firm was 23 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

51%

FULL TIME

14%

PART TIME

35%

SEASONAL

Environmental Horticulture provides MANY jobs. At least 11,000 people are employed in this industry. An additional 4,000 are needed.

- Half of those in this industry are fully employed. An estimated **5,600 jobs** are full time. An additional 1,800 are needed.
- This industry paid an estimated **\$150 million to employees** in 2007 including benefits, almost half (42 percent) of state income.
- Three-quarters of businesses (73 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 40 percent.

56%

LANDSCAPE & TREE SERVICES

63%

RETAIL

50%

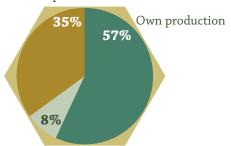
WHOLESALE PRODUCTION/SALES

OTHER



Income from plant sales





Pre-finished plants

Plant production and sales are a significant part of the **Environmental Horticulture industry. Plant sales generate** over \$290 million.

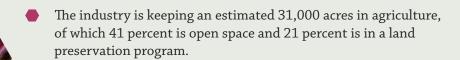
This includes:

- \$165 million from plants produced totally by the seller. Half of firms selling plants grew many from start to finish.
- \$23 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$102 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$188 million.** A majority of firms (75 percent) sell plants.

More facts about Environmental Horticulture in

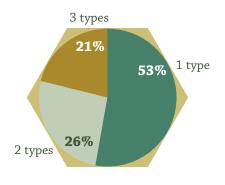
Rhode Island



- Businesses in this industry paid an estimated \$26 million in taxes in 2007. Over two-thirds of the firms (69 percent) reported an increase in taxes paid. The average increase per firm was 32 percent.
- The top three major concerns as expressed by a majority of this industry were health care costs, energy costs, and immigration/ labor issues.

Vermont \$119 Million

Percent of firms in one or more types of business



Environmental Horticulture is a major sector of agriculture in Vermont. There are more than 540 firms in this industry.

These firms are involved in:

- **PRODUCTION:** nurseries, greenhouses, herbs, cut flowers, turfgrass.
- **RETAIL:** garden centers, florists.
- LANDSCAPE SERVICES: landscape design, installation, maintenance, lawn care, tree care.

Many firms are involved in more than one of these types of business.

Income of firms surveyed

53%

INCREASE

12%

DECREASE

35%

SAME

The Environmental Horticulture industry produces income. The estimated value in Vermont for 2007 is \$119 million in gross income.

- Similar to the previous survey in 2004, income has grown for at least half of firms.
- Over the three year period, between 2004 and 2007, more than **290 firms increased their income.** The average increase per firm was 35 percent.
- Many additional firms, not counted in this survey, derive at least partial income from this industry. These include seasonal outlets such as roadside markets, hardware stores, mass market stores, and property maintenance firms.

People employed by businesses

56%

FULL TIME

12%

PART TIME

32%

SEASONAL

Environmental Horticulture provides MANY jobs. At least 5,000 people are employed in this industry. An additional 1,400 are needed.

- Over half of those in this industry are fully employed. An estimated **2,800** jobs are full time. An additional 550 are needed.
- This industry paid an estimated \$50 million to employees in 2007 including benefits, almost half (41 percent) of state income.
- Half of businesses (47 percent) reported an increase in the cost of labor. The average increase per firm from 2004 to 2007 was 34 percent.

68%

LANDSCAPE & TREE SERVICES

58%

RETAIL

42%

WHOLESALE PRODUCTION/SALES

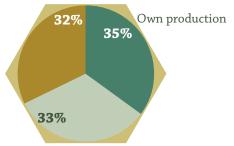
26%

OTHER

Environmental Horticulture is diverse. Two-thirds of firms offer, derive income from, and provide jobs in, landscape and tree services.

Income from plant sales





Pre-finished plants

Plant production and sales are a significant part of the Environmental Horticulture industry. Plant sales generate more than \$33 million.

This includes:

- \$12 million from plants produced totally by the seller. Over half of firms selling plants grew many from start to finish.
- \$11 million from young plants purchased ("pre-finished"), then grown further prior to selling.
- \$10 million from "finished" plants bought for resale, either wholesale or retail.

Plant production generates **\$23 million.** A majority of firms (84 percent) sell plants.

More facts about Environmental Horticulture in Vermont

- The industry is keeping an estimated 11,500 acres in agriculture, of which 32 percent is open space and 19 percent is in a land preservation program.
- Businesses in this industry paid an estimated \$8 million in taxes in 2007. Over two-thirds of the firms (69 percent) reported an increase in taxes paid. The average increase per firm was 40 percent.
- The top three major concerns as expressed by a majority of this industry were energy costs, health care costs, and immigration/ labor issues.

A summary of the impact of the

Environmental Horticulture Industry on the New England economy

\$4.7 Billion & Growing



The New England Nursery Association recognizes Dr. Leonard Perry, University of Vermont Extension, and Dr. Lois Berg Stack, University of Maine Cooperative Extension, for their efforts in conducting the survey. We are grateful to New England Grows, Inc. for the grant award that helped support the publication of this study. Special thanks are extended to the leaders of the New England state nursery and landscape associations for their vision and financial support. And, finally, many thanks to the thousands of industry professionals who participated in the study.

www.NEnsyAssn.org

Additional details about this survey are available at http://pss.uvm.edu/ppp/nesurvey/index.htm

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www.melna.org

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