

United States Department of Agriculture

Final Report

<b>Title:</b>		<b>Vermont IPM Extension Implementation Program: 2017-2020</b>	
<b>Sponsoring Agency</b>	NIFA	<b>Project Status</b>	COMPLETE
<b>Funding Source</b>	Non Formula	<b>Reporting Frequency</b>	Final
<b>Accession No.</b>	1013802	<b>Grants.gov No.</b>	
		<b>Award No.</b>	2017-70006-27143
<b>Project No.</b>	VTN32287	<b>Proposal No.</b>	2017-04388
<b>Project Start Date</b>	09/01/2017	<b>Project End Date</b>	08/31/2022
<b>Reporting Period Start Date</b>	09/01/2017	<b>Reporting Period End Date</b>	08/31/2022
<b>Submitted By</b>	Stephanie Albaugh	<b>Date Submitted to NIFA</b>	09/28/2022

**Program Code:** EIP

**Program Name:** Extension Implementation Program

**Project Director**

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**Recipient Organization**

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BURLINGTON, VT 054051704  
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**Performing Department**

Ext - Programming & Fac Sup

**Co-Project Directors**

Skinner, Margaret  
Darby, Heather  
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**Departments**

{NO DATA ENTERED}  
Ext - Programming & Fac Sup  
Plant & Soil Science

**Non-Technical Summary**

The Vermont Extension Implementation Program includes specialists in plant pathology, entomology, horticulture, agronomy, pesticide education, weed science and community outreach. A program coordinator and an evaluation specialist also play critical roles, maximizing communication and cooperation among Priority area teams. The VT EIP team has strong relationships with stakeholders and addresses IPM needs in the following Primary Priority areas: Agronomic Crops; Specialty Crops; Communities and IPM for Pollinator Health. Secondary Priority areas of IPM Support for Pest Diagnostic Facilities and IPM Education for Pesticide Applicators serve as overarching resources for all Primary Priority areas. The goals of the VT EIP are to develop and promote effective education and outreach programs to imprd p rr

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and disease diagnosis and IPM recommendations.

Greenhouse/high tunnel-Goals include addressing grower needs while improving environmental sustainability and profitability of the greenhouse industry in ME, NH and VT by reducing losses from arthropod pests and increasing growers' revenues through IPM strategies learned at workshops and individual site visits.

Communities-Goals include educating gardeners about pest identification and IPM strategies in the home garden and landscape through a course, a statewide Helpline and several outreach events.

IPM for Pollinators-Goals include educating growers and gardeners on the importance of pollinator protection through an orchard pollinator survey, through pilot habitats and through a home garden IPM short course.

Pest Diagnostics-Goals include providing timely, accurate and cost-effective diagnostics to Vermont stakeholders so they can make informed management decisions based on IPM strategies.

Pesticide Education-Goals include developing trainings on pollinator health to key stakeholders targeting pesticide applicators in apple orchards, in blueberries and for applicators in the nursery/greenhouse ornamentals industry

### **What was accomplished under these goals?**

**Highlights: September 2017 - August 2022 <https://go.uvm.edu/2q8hr>**

**Agronomy Field Days and Winter Conferences**

- 92-96% allowed to better scout/identify/manage pests with IPM system in hops and grains
- 86% helped to test for grain mycotoxin, seedborne disease

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- 64-89% changed management practices, increased biological control, plant-mediated IPM, scouting, identification, nutrient management, decreased pesticide use
- 15-17% adopted strategies for insect pest management (predators, organic methods, parasites, nematodes, conventional pesticides)
- 47% reduced chemical pesticide use by >25%; 51% reduced chemical pesticides by >50%

**Greenhouse/High Tunnel/Nursery IPM First**

- 100% use IPM strategies to manage pests (biopesticides, natural enemies, scouting, trap/habitat plants)
- 100% use biocontrols as chemical pesticide alternatives, reduced chemical pesticides
- 67-100% use plant-mediated IPM systems regularly

**Greenhouse/High Tunnel/Nursery Extension Outreach Education**

- 100% of webinnet viewers indicated the style of learning tool was useful to increase grower's knowledge on the biology and identification of IPM practices

**Master Gardener Course**

- 59-98% never/rarely/sometimes/not sure of using IPM before the course
- 55-99% likely to adopt IPM gardening practices; 36% had already changed their IPM practices as a result of this course
- 84% always/regularly currently use IPM practices in their garden
- 45% have reduced use of pesticides
- "I learned a lot of useful and important information that I can directly apply to my gardening and property management techniques"
- "I appreciate learning about science-based information to help me garden and reduce the use of pesticides"
- "Encourage and assist neighboring gardeners in the community plot to identify pests and diseases. Suggest non-toxic/organic products and practices for control."

**Master Gardener Helpline**

- 36-78% clients used IPM to manage their pest problem
- 24-60% clients were able to reduce pesticides
- \$137-\$250 average per client estimated cost savings by reducing pesticide use
- "I was able to start making helpful gardening changes right away and have a plan for better prevention next season."
- "I got answers that addressed my specific concerns in a timely way that allowed me to move forward with the understanding I needed for success."
- "Helped me to make the problem somewhat better without any pesticides at all."

**Master Gardener Advanced Training Webinars**

- 95-100% will improve use of IPM practices when trying to manage pests
- 20-100% will reduce use of pesticides
- "I appreciate the opportunity to receive current, comprehensive information about an important subject which we can share more broadly with the public"
- "I learned some tricks about pest management to optimize my crops and reduce damage by pests without resorting to pesticides"

**Greenhouse/High Tunnel/Nursery Pollinator Habitat Program**

- 88% did not use habitat plantings prior to program
- 63-88% moderate/considerable knowledge of beneficial id/life cycles, plants to attract beneficials
- 100% continue to use habitat planting systems

**Master Gardener Pollinator Short Course**

- 100% will improve use of IPM practices when trying to protect pollinators in the landscape
- 100% of those who use pesticides will reduce use of pesticides
- "It covered all aspects of the topic and motivated me to do all I can on my own land to protect these important species."
- "Learned more about IPM techniques and identifying pests, beneficial pollinators"
- "Now know the proper formulations, timing, and techniques for pesticide application to reduce harm to pollinators"

**Plant Diagnostic Clinic Disease/Insect/Weed Diagnostics "**

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- 71-96% commercial clients said diagnostic ID helped to manage their pest problem with IPM
- 21-75% commercial clients were able to reduce pesticides as a result of the IPM information

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{NO DATA ENTERED}

**Target Audience**

Target audiences include commercial agricultural operators and associated industry such as crop consultants, professional pest managers, extension educators, researchers and similar stakeholders. Commercial operators include: organic and conventional growers of specialty crops, field crops and forages, new and established grain/dry bean/hop farmers, apple growers, grape growers, blueberry growers, growers of greenhouse ornamentals/cut flowers/high tunnel vegetables, growers of landscape/perennial/nursery stock, and product end-users such as brewers, distillers, maltsters, chefs, bakers, and of opsps, fa

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**Citation**

Hazelrigg, A. 2022. Observations from the UVM Diagnostic Lab. The Dirt, Summer. Vol. 48(2). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
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**Citation**

Hazelrigg, A. 2022. Observations from the UVM Diagnostic Lab. The Dirt, Spring. Vol. 48(1). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

**Citation**

Hazelrigg, A. 2021. Observations from the UVM Diagnostic Lab. The Dirt, Winter. Vol. 47(4). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

**Citation**

Hazelrigg, A. 2021. Observations from the UVM Diagnostic Lab. The Dirt, Fall. Vol. 47(3). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

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Other	Published	2021	NO

**Citation**

Hazelrigg, A. 2021. Observations from the UVM Diagnostic Lab. The Dirt, Winter/Spring. Vol. 46(4). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	NO

**Citation**

Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Fall. Vol. 46(3). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

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Other	Accepted	2020	NO

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Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Summer. Vol. 46(2). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
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**Citation**

Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Spring. Vol. 46(1). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2019	NO

**Citation**

Hazelrigg, A. and G. Maia. 2019. Brassica Diseases. <http://go.uvm.edu/whl4v>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2019	NO

**Citation**

Hazelrigg, A. and G. Maia. 2019. High Tunnel Tomato Diseases. <http://go.uvm.edu/li5nf>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	YES

**Citation**

Hazelrigg, A. and G.S Maia. 2019. Weather and Climate Impacts on Plant Disease in Vermont in Summer 2018. National Plant Diagnostic Network Meeting, Indianapolis, IN.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2018	NO

**Citation**

Hazelrigg, A. 2018. Home invasions of the insect kind. <https://www.uvm.edu/newsstories/news/home-invasions-insect-kind>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2017	NO

**Citation**

Hazelrigg, A. 2017. Tomato pest management. New England Vegetable & Berry Conference Proceedings, December 14, 2017, Manchester, NH. Proceedings.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2017	NO

**Citation**

Hazelrigg, A. 2017. Why are my greens brown? 2017 Disease Update. New England Vegetable & Berry Conference Proceedings, December 13, 2017, Manchester, NH. Proceedings.

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Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	NO

**Citation**

Parker, B.L., A. Davari & M. Skinner. 2020. Can Western Flower Thrips be managed without insecticides? American Floral Endowment Thrips & Botrytis Newsletter, Fall 2020, Issue 3.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	NO

**Citation**

Sanchez, E., C. Frank Sullivan & M. Skinner. 2019. Using Biocontrols to Manage Aphids in High Tunnels. New Jersey Agricultural Trade Show & Convention Proceedings, Feb. 5-9, 2019, Rutgers University, NJ.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2017	NO

**Citation**

Sanchez, E., C. Frank Sullivan & M. Skinner. 2017. High Tunnel Vegetable Crops: Designing a Scouting Plan. PennState Extension Article. <https://extension.psu.edu/high-tunnel-vegetable-crops-designing-a-scouting-plan>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

**Citation**

Skinner, M., C.F. Sullivan & B.L. Parker. 2021. Want to save money on pesticides? Scout for Thrips! American Floral Endowment, Thrips & Botrytis Newsletter, Feb 2021, Issue 1.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	YES

**Citation**

Skinner, M. & C.F. Sullivan. 2021. Wait a Minute! The Dirt, Summer. Vol. 47(2) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2020	NO

**Citation**

Skinner, M., C.F. Sullivan & E. Sanchez. 2020. Habitat plants to support beneficials in high tunnels: The best things in life are free. In: Proc. Mid-Atlantic Fruit & Vegetable Convention, 28-30 Jan. Hersey, PA. PA Veg. Growers Assoc. pp: 78-79.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2019	YES

**Citation**

Skinner, M. & C.F. Sullivan. 2019. Native Solitary Bees and How to Support Them. Univ. of VT, Entomology Research Laboratory, Burlington VT. 2 pp.



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<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Book Chapters	Published	2019	NO

**Citation**

Skinner, M., C.F. Sullivan, & B.L. Parker. 2019. Chapter: Integrated Pest Management in Greenhouse and Other Protected Environments. In: Integrated management of insect pests: Current and future developments; Eds: M. Kogan & L. Higley, Burleigh Dodds Science Publ. Cambridge, UK.

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Websites	Published	2022	NO

**Citation**

Sullivan, C.E.F. and Skinner, M. 2022. Greenhouse Integrated Pest Management Website: <http://www.uvm.edu/~entlab/Greenhouse%20IPM/UVMGreenhouseIPM.html>

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Other	Published	2021	YES

**Citation**

Sullivan, C.F. & M. Skinner. 2021. Lively Lady Beetles, Our Un-Bee-lievable Beneficials (Part 4). The Dirt, Winter. Vol. 46(4) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Other	Published	2020	YES

**Citation**

Sullivan, C.F. & M. Skinner. 2020. The Insidious Flower Bug, Our Un-Bee-lievable Beneficials (Part 3). The Dirt, Fall. Vol. 46(3) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Other	Published	2020	YES

**Citation**

Sullivan, C.F. & M. Skinner. 2020. Persistent Pest Parasites, Our Un-Bee-lievable Beneficials (Part 2). The Dirt, Summer. Vol. 46(2) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Other	Published	2020	YES

**Citation**

Sullivan, C.F. & M. Skinner. 2020. The Sedulous Syrphid Fly, Our Un-Bee-lievable Beneficials (Part 1). The Dirt, Spring. Volume 46(1) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

<b>Type</b>	<b>Status</b>	<b>Year Published</b>	<b>NIFA Support Acknowledged</b>
Other	Published	2020	YES

**Citation**

Sullivan, C.F., A. Davari, B.L. Parker & M. Skinner. 2020. Marigold Guardian Plant Production Guidelines. Entomology Research Laboratory. Tri-State Greenhouse IPM Workshops. Manchester, ME., Durham, NH & Burlington, VT. 2020.

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Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	YES

**Citation**

Sullivan, C.E.F. & M. Skinner. 2019. Attracting & Sustaining Aphid Natural Enemies in High Tunnels. Univ. of VT Entomology Research Laboratory. PennState Ag Progress Days, Rock Springs, PA. August 13-15, 2019.  
<https://www.uvm.edu/~entlab/High%20Tunnel%20IPM/Factsheets/Habitat%20Plants%20in%20High%20Tunnels%20Natural%20Enemies%202019%20version.pdf>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	YES

**Citation**

Sullivan, C.E.F. & M. Skinner. 2019. Critical Questions to Consider to Help Manage Persistent Pest Problems. Univ. of VT Entomology Research Laboratory. PennState Ag Progress Days, Rock Springs, PA. August 13-15, 2019.  
<https://www.uvm.edu/~entlab/High%20Tunnel%20IPM/Factsheets/Critical%20Questions%20to%20Manage%20Persistent%20Pest%20Problems%20Aug%202019.pdf>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	NO

**Citation**

Sullivan, C.E.F., M. Skinner & E. Sanchez. 2019. Guidelines & Tips for Scouting High Tunnel Crops. Univ. of VT Entomology Research Laboratory. PennState Ag Progress Days, Rock Springs, PA. August 13-15, 2019.  
<https://www.uvm.edu/~entlab/High%20Tunnel%20IPM/Factsheets/Scouting%20Guidelines%20High%20Tunnel%20Pests%20Natural%20Enemies%20Aug%202019%20UVM.pdf>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2019	NO

**Citation**

Sullivan, C.E.F. & M. Skinner. 2019. Attracting & Sustaining Aphid Natural Enemies in High Tunnels. Expand Your Tunnel Vision: High Tunnel Production Conference Manchester NH - Dec 3-4. 1p.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2019	YES

**Citation**

Sullivan, C. Frank & Skinner, M. 2019. Bringing in Un-Bee-lievable Beneficials. The Dirt. Winter Issue Vol. 44(4):23-24.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2019	YES

**Citation**

Sullivan, C. Frank & Skinner, M. 2019. Habitat Plantings Harbor Happy Beneficial Bugs. VT Vegetable & Berry Newsletter 3/12/19 <http://www.uvm.edu/vtvegandberry/Pubs/HabitatPlants.pdf>

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2017	NO

**Citation**

Sullivan, C.F & M. Skinner. 2017. Habitat plants to attract natural enemies into high tunnel crops. New England Vegetable & Berry Conference Proceedings, December 14, 2017, Manchester, NH. Proceedings.

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**Other Products****Product Type**

Other

**Description**

Agronomy Field Days and Winter Conferences

- 10 events, 836 attendees: Annual Hops Conf, Virtual Hops Conf, Annual Grain Growers Conf, Virtual Grain Conf, Champlain Valley Hops Field Day, Virtual Field Day Fridays

**Product Type**

Data and Research Material

**Description**

Dry Bean Disease Survey

- 5 farms (75 acres total, VT & MA) surveyed in 2018 & 2019 seasons for pests
- Farmers invited to participate, assisted with scouting 75% of the time

**Product Type**

Data and Research Material

**Description**

Seed Quality Testing

- 804 samples analyzed for disease, mycotoxins, germination (small grains, dry beans, corn, hemp)
- 30 samples. Farmers requested mycotoxin testing expanded to include aflatoxin.

**Product Type**

Other

**Description**

Agronomy Extension Outreach Education

- 18 webinars, 261 attendees: Hop Power Hour
- 19 Hop Blog Posts [blog.uvm.edu/hoppenin](http://blog.uvm.edu/hoppenin)
- 6 Agronomy Blog posts (195 subscribers) [blog.uvm.edu/outcropn](http://blog.uvm.edu/outcropn)
- Online course of Hops Conf [campus.extension.org](http://campus.extension.org)
- Hop goScout surveys (introductory, training, crowning, scouting, irrigation, harvest timing)
- Virtual Reality Scouting Tool for Hop Growers (VRScout Hops) completed, presented at 2019 Hops Conf [go.uvm.edu/3myft](http://go.uvm.edu/3myft)
- 4 IPM guides:
  - Northeast Dry Bean Pest Guide [go.uvm.edu/ywd0p](http://go.uvm.edu/ywd0p)
  - Cereal Rye Production Guide [go.uvm.edu/ky5n6](http://go.uvm.edu/ky5n6)
  - Seed Disease and Organic Management for Cereals Grown in the Northeast [go.uvm.edu/7u0y3](http://go.uvm.edu/7u0y3)
  - The European Corn Borer in Hops and Hemp [go.uvm.edu/k8iwn](http://go.uvm.edu/k8iwn)

**Product Type**

Data and Research Material

**Description**

Orchard/Vineyard Scouting Network

- 12 orchards + 1 vineyard scouted weekly, 2018 & 2019 season
- Third-party online reporting platform trialed

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Farmers & Gardeners Assoc, Penn State Ag Progress Days, Virtual High Tunnel Production Conf, UVM Virtual Grower-to-Grower Session, VT Veg & Berry Growers Assoc. 2020 Webinar Series

- 14,000+ views greenhouse/high tunnel/landscape IPM webpages
- 4,100 followers Entomology & Saffron Facebook
- 460 subscribed GreenGrower listserv
- 9 Factsheets/Articles

**Product Type**

Educational Aids or Curricula

**Description**

Master Gardener Course

- 4 courses, 498 attendees: annual Master Gardener Course delivered through web platform
- 1,405 EMG volunteers, 414 projects/events, 56,321 hours making contacts with the public about pesticide reduction, pest identification, IPM strategies

**Product Type**

Other

**Description**

Master Gardener Helpline

- 4,892 questions answered by phone/email
- 253 specimens submitted for pest identification

**Product Type**

Other

**Description**

Master Gardener Advanced Training Webinars

- 15 events, 543 attendees: annual workshops/webinars

**Product Type**

Data and Research Material

**Description**

Orchard Pollinator Survey

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