GARDENING DURING COVID-19:
Experiences from gardeners around the world

Summer Cortez, Lucy Diekmann, Monika Egerer, Jonathan Kingsley, Brenda Lin, Pauline Marsh, Alessandro Ossola
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Introduction

About this work

In early 2020 as the first wave of COVID-19 swept across the globe, interest in gardening appeared to surge as well. Online searches for gardening information increased in tandem with rising case numbers (Lin et al. 2021). Gardening also received more media attention. Contemporary news stories covered first-time gardeners as well as shortages of plants and seeds in nurseries and online shops.

Our team of researchers from Australia, Germany, and the US came together because of our shared interest in better understanding why and how people were gardening during the COVID-19 pandemic. Our earlier research had already shown us how beneficial gardening could be for diverse communities - for physical and mental health, food production, social connection, and more. However, we wanted to know if and how gardens were able to deliver those benefits in an especially stressful time, during the global COVID-19 pandemic.

Specifically, we wanted to know:

- What significance does gardening have in the lives of gardeners as they cope with pandemic risks and challenges?
- How are gardeners changing the use and management of their gardens because of the pandemic?
- What barriers, needs, and sources of support do gardeners identify during the pandemic?

To answer these questions we distributed an online survey to gardeners using social media, newsletters, and targeted emails to gardener groups in the researchers’ home countries. Responses were collected between June and August 2020. We received 3,743 responses, primarily from Australia, Germany, and the US. Because of our distribution strategy, our results are more representative of certain garden networks than of all gardeners in these three countries. Similarly, the choice to use an online survey means our respondents tend to belong to populations with reliable internet access, comfort with online surveys, and English or German fluency.

What we found

- Respondents were typically college-educated females in their mid-fifties.
- There were five main changes to gardening practices during COVID-19:
  - People had more time to focus on gardening;
  - Gardens became a ‘safe place’ to spend time outdoors, a haven in which to grow one’s own food and connect with nature;
  - Many people valued gardens as a social space, where they could strengthen relationships with family and friends, as well as connect with other gardeners and neighbors;
Based on these findings, we concluded that during this period of sudden and extreme lifestyle changes, gardens played a positive role in gardeners' mental and physical health. Gardens also benefited a wider community as people shared knowledge; seeds, plants and food; and time and work in the garden. As we learned from the stories of gardeners who took part in this survey, some also saw their gardens as part of a broader set of strategies to create more resilient regional food systems, adapt to a changing climate, and protect biodiversity.

Our results point to the opportunity that is available for governments, non-governmental organizations, community groups, and businesses to improve community health and well-being by providing green spaces and facilitating easy access to gardens and gardening. Governments at all scales can develop policies that make it easier for communities to garden by providing space, resources and support, with a focus on addressing inequities in access to green space and healthy food. Gardens can also be encouraged as a resilience strategy to help people cope with and recover from a host of social and natural disasters. However, for gardens to successfully function as sites of resilience, investments in their social and physical infrastructure need to be made before disaster strikes.

What next?

Based on these findings, we concluded that during this period of sudden and extreme lifestyle changes, gardens played a positive role in gardeners' mental and physical health. Gardens also benefited a wider community as people shared knowledge; seeds, plants and food; and time and work in the garden. As we learned from the stories of gardeners who took part in this survey, some also saw their gardens as part of a broader set of strategies to create more resilient regional food systems, adapt to a changing climate, and protect biodiversity.

Our results point to the opportunity that is available for governments, non-governmental organizations, community groups, and businesses to improve community health and well-being by providing green spaces and facilitating easy access to gardens and gardening. Governments at all scales can develop policies that make it easier for communities to garden by providing space, resources and support, with a focus on addressing inequities in access to green space and healthy food. Gardens can also be encouraged as a resilience strategy to help people cope with and recover from a host of social and natural disasters. However, for gardens to successfully function as sites of resilience, investments in their social and physical infrastructure need to be made before disaster strikes.

Short regional reports

The pages that follow show results for specific states and regions in Australia, Germany, and the US. Despite significant differences related to geography and climate, as well as varying national pandemic responses, gardeners’ descriptions of this time were remarkably similar. During the personal, social, and economic upheaval engendered by COVID-19, gardeners found solace in their gardens, where they could escape the stress of the pandemic, connect to the natural world, and often, find ways to safely interact with others. Importantly, gardens were not just sites for respite. Gardeners also described how gardening was a way they could take action to help themselves and others in the face of circumstances that otherwise felt largely outside of their control.

We hope you enjoy taking a closer look into the following summaries.
**Acknowledgements**

All the gardeners who participated in our surveys around the world are kindly acknowledged for sharing their experiences and expertise. In addition, we would like to thank the numerous gardening organizations and groups that assisted us in distributing the online survey and helped us gather such a broad response. These groups include:

- University of California Master Gardener Program
- The Royal Horticulture Society of UK
- The Public Health Association Australia Western Australian Branch
- ACSDistanceEducation
- Geographies of Health & Wellbeing Research Group
- Royal Botanic Gardens Sydney
- Kevin Heinz Grow
- The Garden Clinic
- ABC Gardening Australia Magazine
- Sophie Thomson (ABC presenter)
- Gardening Australia
- Community Greening NSW
- Cooperative Gardens Commission
- Therapeutic Horticulture Australia
- Therapeutic landscape collective Tasmania
- Transitions Town Marooyrnong
- 'Reverge' - Community Verge Gardens
- Australian Garden Council
- Vic Park Urban Foresters
- SABGR Lower Eyre Peninsula
- Namatjira Dreaming Community
- The Forge Garden
- La Mesa Verde
- Wingham Nursery and Florest
- Enviro & Sustainable News (WA)
- Cornell Cooperative Extension Tompkins County
- Turf Growers Association Western Australia
- The Community Plate
- Australian Institute of Horticulture Inc.
- Rotary Community Garden and Food Forest of Carol Springs
- Community gardens in California
- P-Patch Community Gardening Program
- Crops Swap - Boronia, The Basin, Ferntree Gully and surrounds
- South Florida Edible Gardening and Sustainable Living
- Northeast Permaculture Network
- German Ecological Society
- Deutsche Gesellschaft für Gartenkunst und Landschaftskultur DGGL e. V.

**For more in-depth study results, please see these papers:**


Dr. Brenda Lin is an interdisciplinary ecologist leading the Adaptive and Liveable Cities Team at the Commonwealth Science and Industrial Research Organisation (CSIRO), the science arm of the Australian Government. Her primary research is focused on global environmental drivers of landscape change and the resulting effects on ecosystem services, especially climate regulation services and impacts to human health and well-being. One area of focus has been in urban ecological systems where she examines the relationships between vegetation cover, environmental services, and human health.

Dr. Alessandro Ossola is an Assistant Professor in Urban Plant Science at the University of California Davis, US, and Honorary Research Fellow at the University of Melbourne and Macquarie University, Sydney, Australia. Alessandro's research and teaching encompass several topics including ecology, climate change, forestry, water management, food production, urban planning and design.

Dr. Jonathan Kingsley is a Senior Lecturer in Health Promotion (Swinburne University of Technology). Jonathan has dedicated the better part of the past decade working in Aboriginal Community Controlled Health Organisations, government bodies, academic institutes and NGOs across Australia in the public health and community development field. Jonathan sees our natural environment as central to health and having the capacity to bridge health inequalities (the basis of his Honours, Masters, PhD and previous Visiting Academic position at Cambridge University).

Dr. Lucy Diekmann is an Urban Agriculture and Food Systems Advisor with University of California Cooperative Extension. She works with community-based organizations, local government partners, food system networks, and urban farmers and gardeners on research and extension projects to create more equitable and resilient urban food systems.

Dr. Monika Egerer is an assistant professor at the Technical University of Munich in the School of Life Sciences. Her research investigates relationships between biodiversity conservation, ecosystem service provision, and human wellbeing in urban ecosystems, with a focus on urban agricultural systems. Monika's work aims to bridge theory and practice to create productive systems in cities that offer food, habitat and community.

Dr. Pauline Marsh is a social researcher with the Centre for Rural Health, at the University of Tasmania, Australia. Her research explores how being in nature improves our quality of life and she is particularly interested in the therapeutic benefits of gardens and the outdoors for people with cognitive, emotional and physical health challenges. She utilises methods of participatory action research, story-gathering and filmmaking and publishes in a range of academic journals. She considers one of her greatest achievements to be co-founding the DIGNity Supported Community Gardening project.

Summer Cortez is a member of the Community Development Graduate Group at UC Davis. Her research utilizes a Food Justice framework to investigate grassroots and public policy opportunities to improve food system resiliency and access within California communities.
GARDENING DURING COVID-19: Greater Melbourne Metropolitan Area, Australia

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Australia, many respondents were recruited through digital networks such as Facebook and LinkedIn as well through ‘Gardening Australia.’ The information summarized here reflects the 253 survey responses received from gardeners in the greater Melbourne area of Victoria in summer 2020.

Who are the gardeners?
253 gardeners from Victoria responded to this survey. Responses were clustered in the greater Melbourne area, as shown in the map below. Most respondents were experienced gardeners; 65% had gardened for more than 10 years, while just 3% were gardening for the first time. In general, gardeners were female (82%) and highly educated: 77% had a bachelor’s degree or higher. Gardeners ranged in age from 22 to 86, with an average age of 51.

Australian highlights
- The pandemic provided many people with more time to dedicate to their gardens and fueled a desire to increase garden productivity.
- Early in the pandemic, many respondents reported feeling isolated, anxious, or depressed. Under these circumstances, gardens were valued for outdoor activity, stress relief, and connection to nature.
- During the first wave of the pandemic, gardeners were concerned about exposure to COVID-19 while grocery shopping and shortages and limited selection at the store. In light of supply chain disruptions, gardens took on newfound importance as tools for greater self-reliance.
- Community connections and support were a recurring theme. Gardeners reported both receiving and giving help in the garden and growing for others in their community. Gardens also were a focal point for interacting with family, friends, and neighbors.
Garden characteristics

Most respondents reported gardening at home, in their yard (93%) and/or on a balcony (8%). Their gardens were frequently the size of one or two raised beds (26%) or took up a large section of their yard (54%). Growing vegetables (83%), herbs (88%), fruits (72%), and ornamentals (79%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-third answered 25%, and one-tenth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In the Melbourne area, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 30% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was their desire to increase the amount of food produced in their gardens. More than half of gardeners also reported planting more and having more time to garden as a result of lockdown restrictions.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (46%) and getting protective gear (34%). During the first wave of the pandemic, many gardeners also had concerns about the safety of obtaining food at the store. Generally, gardeners in the study were not experiencing food insecurity: 6% reported not having enough food at home or an inability to pay for food. 10% of respondents did report less fresh food at home since the start of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies like seeds and plants. Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a third of respondents were not experiencing any challenges gardening because of the pandemic.
GARDENING DURING COVID-19: 
Coastal New South Wales & ACT, 
Australia

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Australia, many respondents were recruited through digital networks such as Facebook and LinkedIn as well through ‘Gardening Australia.’ The information summarized here reflects the 177 survey responses received from gardeners in New South Wales and the Australian Capital Territory (ACT) in summer 2020.

Who are the gardeners?
177 gardeners from across New South Wales and ACT responded to this survey. Responses were largely clustered in the Sydney metropolitan area, as shown in the map below. Many respondents were experienced gardeners; 41% had gardened for more than 10 years, while just 12% had been gardening for five years or less. In general, gardeners were female (86%) and highly educated: 72% had a bachelor’s degree or higher. Gardeners ranged in age from 29 to 93, with an average age of 53.

Australian highlights
- The pandemic provided many people with more time to dedicate to their gardens and fueled a desire to increase garden productivity.
- Early in the pandemic, many respondents reported feeling isolated, anxious, or depressed. Under these circumstances, gardens were valued for outdoor activity, stress relief, and connection to nature.
- During the first wave of the pandemic, gardeners were concerned about exposure to COVID-19 while grocery shopping and shortages and limited selection at the store. In light of supply chain disruptions, gardens took on newfound importance as tools for greater self-reliance.
- Community connections and support were a recurring theme. Gardeners reported both receiving and giving help in the garden and growing for others in their community. Gardens also were a focal point for interacting with family, friends, and neighbors.
Garden characteristics

Most respondents reported gardening at home, in their yard (90%) and/or on a balcony (11%). Their gardens were frequently the size of one or two raised beds (24%) or took up a large section of their yard (51%). Also common were gardens significantly larger than an average residential plot (19%). Growing vegetables (80%), herbs (84%), fruits (67%), and ornamentals (76%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, over half answered less than 10%, one-third answered 25%, and one-tenth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In New South Wales and ACT, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 32% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were also planting more in 2020, hoping to harvest more, and doing more socializing through gardening.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (37%) and getting protective gear (32%). During the first wave of the pandemic, many gardeners also had concerns about the safety of obtaining food at the store. Generally, gardeners in the study were not experiencing food insecurity: 3% reported not having enough food at home or an inability to pay for food. 10% of respondents did report less fresh food at home since the start of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a third of respondents were not experiencing any challenges gardening because of the pandemic.
GARDENING DURING COVID-19: Southeast Queensland, Australia

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Australia, many respondents were recruited through digital networks such as Facebook and LinkedIn as well through 'Gardening Australia.' The information summarized here reflects the 73 survey responses received from gardeners in Southeast Queensland in summer 2020.

Who are the gardeners?
73 gardeners from across Queensland responded to this survey. Responses were largely clustered in the greater Brisbane area, as shown in the map below. Most respondents were experienced gardeners; 60% had gardened for more than 10 years, while just 7% were gardening for the first time. In general, gardeners were female (85%) and highly educated: 75% had a bachelor’s degree or higher. Gardeners ranged in age from 21 to 80, with an average age of 49.

Australian highlights
- The pandemic provided many people with more time to dedicate to their gardens and fueled a desire to increase garden productivity.
- Early in the pandemic, many respondents reported feeling isolated, anxious, or depressed. Under these circumstances, gardens were valued for outdoor activity, stress relief, and connection to nature.
- During the first wave of the pandemic, gardeners were concerned about exposure to COVID-19 while grocery shopping and shortages and limited selection at the store. In light of supply chain disruptions, gardens took on newfound importance as tools for greater self-reliance.
- Community connections and support were a recurring theme. Gardeners reported both receiving and giving help in the garden and growing for others in their community. Gardens also were a focal point for interacting with family, friends, and neighbors.
Garden characteristics

Most respondents reported gardening at home, in their yard (95%) and/or on a balcony (7%). Their gardens were frequently the size of one or two raised beds (25%) or took up a large section of their yard (56%). Growing vegetables (54%), herbs (58%), fruits (47%), and ornamentals (48%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-third answered 25%, and one-tenth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Queensland, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 37% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were also planting more in 2020, hoping to harvest more, and doing more socializing through gardening.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (40%) and getting protective gear (39%). During the first wave of the pandemic, many gardeners also had concerns about the safety of obtaining food at the store. Generally, gardeners in the study were not experiencing food insecurity: 0% reported not having enough food at home or an inability to pay for food. 5% of respondents did report less fresh food at home since the start of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a third of respondents were not experiencing any challenges gardening because of the pandemic.
GARDENING DURING COVID-19:
Tasmania, Australia

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Australia, many respondents were recruited through digital networks such as Facebook and LinkedIn as well through ‘Gardening Australia.’ The information summarized here reflects the 54 survey responses received from gardeners in Tasmania in summer 2020.

Who are the gardeners?
54 gardeners from across Tasmania responded to this survey. Responses were largely clustered in Hobart, Launceston, and Devonport, as shown in the map below. Most respondents were experienced gardeners; 72% had gardened for more than 10 years, while just 7% were gardening for the first time. In general, gardeners were female (76%) and highly educated: 81% had a bachelor’s degree or higher. Gardeners ranged in age from 28 to 79, with an average age of 55.

Australian highlights
- The pandemic provided many people with more time to dedicate to their gardens and fueled a desire to increase garden productivity.
- Early in the pandemic, many respondents reported feeling isolated, anxious, or depressed. Under these circumstances, gardens were valued for outdoor activity, stress relief, and connection to nature.
- During the first wave of the pandemic, gardeners were concerned about exposure to COVID-19 while grocery shopping and shortages and limited selection at the store. In light of supply chain disruptions, gardens took on newfound importance as tools for greater self-reliance.
- Community connections and support were a recurring theme. Gardeners reported both receiving and giving help in the garden and growing for others in their community. Gardens also were a focal point for interacting with family, friends, and neighbors.
Garden characteristics

Most respondents reported gardening at home, in their yard (93%) and/or on a balcony (9%). Their gardens were frequently the size of one or two raised beds (19%) or took up a large section of their yard (64%). Growing vegetables (94%), herbs (89%), fruits (74%), and ornamentals (70%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, eighty-four percent of respondents answered 25% or less. Eleven percent answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Tasmania, gardeners most valued 1) connecting to nature, 2) outdoor physical activity, 3) relaxing and relieving stress, and 4) food production and food quality. About 48% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was their desire to increase the amount of food produced in their gardens. More than half of gardeners also reported planting more and having more time to garden as a result of lockdown restrictions.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (35%) and not being allowed outside of one's residence (26%). During the first wave of the pandemic, many gardeners also had concerns about the safety of obtaining food at the store. Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or inability to pay for food. 2% reported having less fresh food at home since the start of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a half of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited barriers to gardening during COVID-19

- Not applicable / none: 52%
- Getting materials: 35%
- Too little interaction: 18%
- Health concerns: 9%
- Finding information: 6%

Most common new community garden rules

- Social distancing: 100%
- More handwashing / cleaning: 100%
- No sharing of tools / gloves: 83%
- Restricted number of people: 67%
- Requiring protective gear: 17%

Most frequently cited barriers to food access during COVID-19

- Not applicable / none: 44%
- Exposure to virus when obtaining food: 43%
- Empty grocery shelves: 30%
- Limited selection at grocery: 28%
- Food shortages: 11%

Most requested support for gardening during COVID-19

- Not applicable / none: 28%
- Seeds / seedlings: 18%
- Information on self-sufficiency: 16%
- Information on improving productivity: 15%
- Materials: 12%
Early in the pandemic, some of the common stressors German gardeners experienced included difficulty obtaining protective gear, school closures, and loss of child care. Many also reported feeling isolated, anxious, or depressed.

In this context, outdoor garden spaces were valued for helping to relieve stress and enabling gardeners to connect to nature and other community members safely.

The biggest changes in the garden were that gardeners had more time to spend gardening and many were planting more than in previous years. With more time, gardeners reported being able to take better care of their gardens and experimenting with new techniques and plants.

About half of respondents reported experiencing no barriers to gardening during the pandemic. For the other half, obtaining supplies, such as seeds, was the most significant gardening challenge during the pandemic.

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Germany, many respondents were recruited through newsletters of the German Ecological Society, The German Society for Garden Art and Landscape Culture eV, and the Gardening Portal from the Berlin Senate Department for the Environment, Transport and Climate Protection. The information summarized here reflects the 120 survey responses received from gardeners in Berlin in summer 2020.

Who are the gardeners?
120 gardeners from Berlin responded to this survey. Responses were largely clustered in central Berlin, as shown in the map below. Many respondents were experienced gardeners; 40% had gardened for more than 10 years, while just 8% were gardening for the first time. In general, gardeners were female (71%) and highly educated: 85% had a bachelor’s degree or higher. Gardeners ranged in age from 19 to 74, with an average age of 45.
Garden characteristics

Many respondents reported gardening at home, in their yard (43%) and/or on a balcony (42%). Forty-one percent gardened at a community garden. Their gardens varied in size, but tended to be large plots of land (60%). Growing vegetables (77%), herbs (83%), fruits (62%), and ornamentals (73%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, many (73%) answered less than 10%. One-fifth answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Berlin, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) outdoor learning/educating.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. About half of gardeners were also planting more in 2020. However, the majority of gardeners expressed no change in the quantity of produce they were hoping to harvest, the amount of garden socializing they did, and the amount of information about gardening that they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (34%) and getting protective gear (33%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 4% reported not having enough food at home or an inability to pay for food. 13% reported having less fresh food at home since the start of the pandemic.

Garden challenges

Over half of respondents were not experiencing any challenges in gardening because of the pandemic. For others, the biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Information about specific crops, production, and self-sufficiency were the most requested forms of support aside from supplies.

Most frequently cited barriers to gardening during COVID-19

- Not applicable / none: 50%
- Getting materials: 38%
- Too little interaction: 15%
- Accessing my garden: 8%
- Getting protective gear: 6%

Most common new community garden rules

- Social distancing: 60%
- Restricted number of people: 40%
- No new rules: 10%
- More handwashing / cleaning: 10%
- Other: 10%

Most requested support for gardening during COVID-19

- Not applicable / none: 61%
- Seeds / seedlings: 25%
- Information on specific crops: 18%
- Information on improving productivity: 17%
- Information on self-sufficiency: 17%
**Study description**

To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Germany, many respondents were recruited through newsletters of the German Ecological Society, The German Society for Garden Art and Landscape Culture eV, and the Gardening Portal from the Berlin Senate Department for the Environment, Transport and Climate Protection. The information summarized here reflects the 69 survey responses received from gardeners in Brandenburg, Saxony-Anhalt, Saxony, and Thuringia in summer 2020.

**Who are the gardeners?**

69 gardeners from across East Germany responded to this survey. Responses were scattered across the Eastern states, with the highest concentration of responses occurring in Leipzig and Halle, as shown in the map below. Many respondents were experienced gardeners; 52% had gardened for more than 10 years, while just 3% were gardening for the first time. In general, gardeners were female (72%) and highly educated: 84% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 71, with an average age of 47.

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**German highlights**

- Early in the pandemic, some of the common stressors German gardeners experienced included difficulty obtaining protective gear, school closures, and loss of child care. Many also reported feeling isolated, anxious, or depressed.

- In this context, outdoor garden spaces were valued for helping to relieve stress and enabling gardeners to connect to nature and other community members safely.

- The biggest changes in the garden were that gardeners had more time to spend gardening and many were planting more than in previous years. With more time, gardeners reported being able to take better care of their gardens and experimenting with new techniques and plants.

- About half of respondents reported experiencing no barriers to gardening during the pandemic. For the other half, obtaining supplies, such as seeds, was the most significant gardening challenge during the pandemic.
Garden characteristics

Many respondents reported gardening at home, in their yard (64%) and/or on a balcony (29%). Thirty-three percent gardened at a community garden. Their gardens varied in size, but tended to be large plots of land (70%). Growing vegetables (81%), herbs (91%), fruits (80%), and ornamentals (84%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-third answered 25%, and one-fifth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In East Germany, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) knowing one’s food source.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. About half of gardeners were also planting more in 2020. However, the majority of gardeners reported no change in the quantity of produce they were hoping to harvest, the amount of garden socializing they did, and the amount of information about gardening that they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were associated with school closures and loss of child care (36%) and getting protective gear (25%). Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or an inability to pay for food. 15% reported having less fresh food at home since the start of the pandemic.

Garden challenges

Half of respondents were not experiencing any challenges in gardening because of the pandemic. For others, the biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Additional space for gardening and information about specific crops and improving self sufficiency were the most requested forms of support aside from supplies.
GARDENING DURING COVID-19:
North Germany

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Germany, many respondents were recruited through newsletters of the German Ecological Society, The German Society for Garden Art and Landscape Culture eV, and the Gardening Portal from the Berlin Senate Department for the Environment, Transport and Climate Protection. The information summarized here reflects the 129 survey responses received from gardeners in Lower Saxony, Bremen, Hamburg, Schleswig-Holstein, and Mecklenburg-Vorpommern in summer 2020.

Who are the gardeners?
129 gardeners from across Northern Germany responded to this survey. Responses were scattered across the Northern states, with the highest concentration of responses occurring in Hamburg, as shown in the map below. Many respondents were experienced gardeners; 59% had gardened for more than 10 years, while just 4% were gardening for the first time. In general, gardeners were female (72%) and highly educated: 78% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 84, with an average age of 52.

German highlights
- Early in the pandemic, some of the common stressors German gardeners experienced included difficulty obtaining protective gear, school closures, and loss of child care. Many also reported feeling isolated, anxious, or depressed.
- In this context, outdoor garden spaces were valued for helping to relieve stress and enabling gardeners to connect to nature and other community members safely.
- The biggest changes in the garden were that gardeners had more time to spend gardening and many were planting more than in previous years. With more time, gardeners reported being able to take better care of their gardens and experimenting with new techniques and plants.
- About half of respondents reported experiencing no barriers to gardening during the pandemic. For the other half, obtaining supplies, such as seeds, was the most significant gardening challenge during the pandemic.
Garden characteristics

Many respondents reported gardening at home, in their yard (67%) and/or on a balcony (16%). Twenty-seven percent gardened at a community garden. Their gardens varied in size, but tended to be large plots of land (76%). Growing vegetables (73%), herbs (84%), fruits (76%), and ornamentals (76%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, over half (59%) answered less than 10%. One-quarter answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Northern Germany, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) knowing the source of their produce.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. However, the majority of gardeners reported no change in the amount they planted, quantity of produce they were hoping to harvest, the amount of garden socializing they did, and the amount of information about gardening that they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenge was obtaining protective gear (23%) and reduced wages or work hours (20%). Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or an inability to pay for food. 9% reported having less fresh food at home since the start of the pandemic.

Garden challenges

Over half of respondents were not experiencing any challenges in gardening because of the pandemic. For others, the biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Additional space for gardening and crop specific information were the most requested forms of support aside from supplies.

Most frequently cited personal difficulties faced during Covid-19

- Obtaining PPE: 23%
- Reduced wages / hours: 20%
- School closures / loss of child care: 19%
- Other: 19%
- Isolation / anxiety: 17%

Most frequently cited barriers to gardening during COVID-19

- Not applicable / none: 52%
- Getting materials: 42%
- Food safety concerns: 10%
- Health concerns: 9%
- Too little interaction: 9%

Most frequently cited barriers to food access during COVID-19

- Not applicable / none: 50%
- Limited selection at grocery: 29%
- Empty grocery shelves: 28%
- Exposure to virus when obtaining food: 24%
- Concern about worker safety: 22%

Most common new community garden rules

- Restricted number of people: 50%
- Social distancing: 47%
- No new rules: 39%
- More handwashing / cleaning: 26%
- Other: 12%

Most requested support for gardening during COVID-19

- Not applicable / none: 50%
- Seeds / seedlings: 26%
- Materials: 14%
- Additional space: 10%
- Information on specific crops: 10%
Study description

To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Germany, many respondents were recruited through newsletters of the German Ecological Society, The German Society for Garden Art and Landscape Culture eV, and the Gardening Portal from the Berlin Senate Department for the Environment, Transport and Climate Protection. The information summarized here reflects the 139 survey responses received from gardeners in Bavaria and Baden-Württemberg in summer 2020.

Who are the gardeners?

139 gardeners from Southern Germany responded to this survey. Responses were largely clustered in Stuttgart and Munich, as shown in the map below. Many respondents were experienced gardeners; 63% had gardened for more than 10 years, while just 4% were gardening for the first time. In general, gardeners were female (72%) and highly educated: 79% had a bachelor’s degree or higher. Gardeners ranged in age from 21 to 79, with an average age of 50.

German highlights

- Early in the pandemic, some of the common stressors German gardeners experienced included difficulty obtaining protective gear, school closures, and loss of child care. Many also reported feeling isolated, anxious, or depressed.

- In this context, outdoor garden spaces were valued for helping to relieve stress and enabling gardeners to connect to nature and other community members safely.

- The biggest changes in the garden were that gardeners had more time to spend gardening and many were planting more than in previous years. With more time, gardeners reported being able to take better care of their gardens and experimenting with new techniques and plants.

- About half of respondents reported experiencing no barriers to gardening during the pandemic. For the other half, obtaining supplies, such as seeds, was the most significant gardening challenge during the pandemic.
Garden characteristics

Many respondents reported gardening at home, in their yard (73%) and/or on a balcony (23%). Ten percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (24%) or took up a large section of their yard (45%). Growing vegetables (73%), herbs (86%), fruits (58%), and ornamentals (71%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, many (65%) answered less than 10%. One-fifth answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In South Germany, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and quality.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. About half of gardeners were also planting more in 2020. However, the majority of gardeners expressed no change in the quantity of produce they were hoping to harvest, the amount of garden socializing they did, and the amount of information about gardening that they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were associated with school closures and loss of child care (26%) and feeling isolated, anxious, or depressed (34%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 0% reported not having enough food at home or an inability to pay for food. 6% reported having less fresh food at home since the start of the pandemic.

Garden challenges

Half of respondents were not experiencing any challenges in gardening because of the pandemic. For others, the biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Information about specific crops and self-sufficiency were the most requested forms of support aside from supplies.

Most frequently cited barriers to gardening during COVID-19

- Not applicable / none: 49%
- Getting materials: 43%
- Too little interaction: 11%
- Health concerns: 7%
- Food safety concerns: 6%

Most common new community garden rules

- Social distancing: 50%
- Restricted number of people: 43%
- No new rules: 43%
- Other: 36%
- Can only visit certain times: 14%

Most requested support for gardening during COVID-19

- Not applicable / none: 50%
- Seeds / seedlings: 22%
- Materials: 17%
- Information on specific crops: 9%
- Information on self sufficiency: 6%
Study description

To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In Germany, many respondents were recruited through newsletters of the German Ecological Society, The German Society for Garden Art and Landscape Culture eV, and the Gardening Portal from the Berlin Senate Department for the Environment, Transport and Climate Protection. The information summarized here reflects the 213 survey responses received from gardeners in Saarland, Rhineland-Palatinate, Hesse, and North Rhine Westphalia in summer 2020.

Who are the gardeners?

213 gardeners from Western Germany responded to this survey. Responses were scattered widely across the Western states, as shown in the map below. Many respondents were experienced gardeners; 63% had gardened for more than 10 years, while just 4% were gardening for the first time. In general, gardeners were female (71%) and highly educated: 81% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 80, with an average age of 51.

German highlights

- Early in the pandemic, some of the common stressors German gardeners experienced included difficulty obtaining protective gear, school closures, and loss of child care. Many also reported feeling isolated, anxious, or depressed.

- In this context, outdoor garden spaces were valued for helping to relieve stress and enabling gardeners to connect to nature and other community members safely.

- The biggest changes in the garden were that gardeners had more time to spend gardening and many were planting more than in previous years. With more time, gardeners reported being able to take better care of their gardens and experimenting with new techniques and plants.

- About half of respondents reported experiencing no barriers to gardening during the pandemic. For the other half, obtaining supplies, such as seeds, was the most significant gardening challenge during the pandemic.
Garden characteristics

Many respondents reported gardening at home, in their yard (82%) and/or on a balcony (17%). Fourteen percent gardened at a community garden. Their gardens varied in size, but tended to be large plots of land (74%). Growing vegetables (65%), herbs (85%), fruits (65%), and ornamentals (70%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, many (65%) answered less than 10%. One-quarter answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Western Germany, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) outdoor learning/educating.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. About half of gardeners were also planting more in 2020. However, the majority of gardeners expressed no change in the quantity of produce they were hoping to harvest, the amount of garden socializing they did, and the amount of information about gardening that they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were getting protective gear (33%) and dealing with school closures and the loss of child care (29%). Generally, gardeners in the study were not experiencing food insecurity: 1% reported not having enough food at home or an inability to pay for food. 13% reported having less fresh food at home since the start of the pandemic.

Garden challenges

Over half of respondents were not experiencing any challenges in gardening because of the pandemic. For others, the biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Improved internet connection and the availability of translation services were the most requested forms of support aside from supplies.
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.
Garden characteristics

Most respondents reported gardening at home, in their yard (85%) and/or on a balcony (8%). Twenty-three percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (32%) or took up a large section of their yard (56%). Growing vegetables (94%), herbs (84%), fruits (71%), and ornamentals (69%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, one-third answered less than 10%, one-third answered 25%, and one-fifth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In California, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 35% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were also planting more in 2020, hoping to harvest more, and seeking more information about gardening.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (55%) and getting protective gear (55%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or an inability to pay for food. This is not representative of California as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. About a quarter of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited barriers to gardening during COVID-19

- Obtaining materials: 62%
- Too little interaction: 28%
- Not applicable / none: 10%
- Obtaining PPE: 10%
- Health concerns: 10%

Most common new community garden rules

- Social distancing: 87%
- Requiring protective gear: 59%
- More handwashing / cleaning: 45%
- Other: 23%

Most frequently cited barriers to food access during COVID-19

- Exposure while shopping: 70%
- Concern about worker safety: 56%
- Limited selection at store: 55%
- Empty grocery shelves: 49%
- Not applicable / none: 14%

Most requested support for gardening during COVID-19

- Seeds / seedlings: 38%
- Information on improved productivity: 34%
- Information on self sufficiency: 33%
- Not applicable / none: 32%
- Materials: 23%
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.

**Who are the gardeners?**

231 gardeners from across Illinois responded to this survey. Responses were largely clustered in Chicago, Elgin, and Bloomington, as shown in the map below. Most respondents were experienced gardeners; 88% had gardened for more than 10 years, while just 4% had been gardening for fewer than 5 years. In general, gardeners were female (87%) and highly educated: 83% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 85, with an average age of 65.

**Study description**

To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In the United States, many respondents were recruited through the Master Gardener Program. The information summarized here reflects the 231 survey responses received from gardeners in Illinois in summer 2020.
Garden characteristics

Most respondents reported gardening at home, in their yard (93%) and/or on a balcony (4%). Twenty-seven percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (19%) or took up a large section of their yard (66%). Growing vegetables (82%), herbs (77%), fruits (36%), and ornamentals (77%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-third answered 25%, and one-tenth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Illinois, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) gardening for the sake of learning or educating. About 45% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. Just under half of gardeners (43%) were also planting more in 2020.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (36%) and getting protective gear (34%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or an inability to pay for food. This is not representative of Illinois as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was limited social interaction with others. Gardeners also reported difficulty getting supplies (like seeds and plants). About a third of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited personal difficulties faced during Covid-19

<table>
<thead>
<tr>
<th>Difficulty</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation / anxiety</td>
<td>50%</td>
</tr>
<tr>
<td>Obtaining PPE</td>
<td>34%</td>
</tr>
<tr>
<td>Other</td>
<td>25%</td>
</tr>
<tr>
<td>School closures / loss of child care</td>
<td>10%</td>
</tr>
<tr>
<td>Reduced wages / hours</td>
<td>9%</td>
</tr>
</tbody>
</table>

Most frequently cited barriers to food access during COVID-19

<table>
<thead>
<tr>
<th>Difficulty</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure to virus when obtaining food</td>
<td>52%</td>
</tr>
<tr>
<td>Limited selection / quantity at grocery</td>
<td>38%</td>
</tr>
<tr>
<td>Concerns about worker health / food safety</td>
<td>41%</td>
</tr>
<tr>
<td>Empty grocery shelves</td>
<td>26%</td>
</tr>
<tr>
<td>Not applicable / none</td>
<td></td>
</tr>
</tbody>
</table>

Most common new community garden rules

<table>
<thead>
<tr>
<th>Rule</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social distancing</td>
<td>41%</td>
</tr>
<tr>
<td>Restricted number of people</td>
<td>33%</td>
</tr>
<tr>
<td>More handwashing / cleaning</td>
<td>40%</td>
</tr>
<tr>
<td>Requiring protective gear</td>
<td>40%</td>
</tr>
<tr>
<td>No sharing of tools / gloves</td>
<td>37%</td>
</tr>
</tbody>
</table>

Most requested support for gardening during COVID-19

<table>
<thead>
<tr>
<th>Support</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable / none</td>
<td>22%</td>
</tr>
<tr>
<td>Information on self-sufficiency</td>
<td>18%</td>
</tr>
<tr>
<td>Materials</td>
<td>29%</td>
</tr>
<tr>
<td>Seeds / seedlings</td>
<td>16%</td>
</tr>
<tr>
<td>Information on improving productivity</td>
<td>53%</td>
</tr>
</tbody>
</table>
Study description

To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In the United States, many respondents were recruited through the Master Gardener Program. The information summarized here reflects the 33 survey responses received from gardeners in Michigan in summer 2020.

Who are the gardeners?

33 gardeners from across Michigan responded to this survey. Responses were scattered across the state, with a higher density of clustering in the greater Detroit metropolitan area, as shown in the map below. Most respondents were experienced gardeners; 79% had gardened for more than 10 years, while just 3% had been gardening for fewer than five years. In general, gardeners were female (88%) and highly educated: 67% had a bachelor’s degree or higher. Gardeners ranged in age from 29 to 83, with an average age of 60.

U.S. highlights

- One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden.

- More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction.

- With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

- Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.
**Garden characteristics**

Most respondents reported gardening at home, in their yard (91%) and/or a friend’s yard (15%). Twenty-one percent gardened at a community garden. Their gardens frequently took up a large section of their yard (58%) or a space exceeding the size of a typical residential plot (24%). Growing vegetables (70%), herbs (73%), fruits (48%), and ornamentals (85%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-quarter answered 25%, and one-tenth answered 50%.

**The value of pandemic gardens**

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Michigan, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) gardening for the sake of learning/educating. About 44% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

**COVID-19 changes**

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. About half of gardeners were also planting more in 2020, hoping to harvest more, and seeking more garden socializing.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (48%) and getting protective gear (36%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity; 0% of respondents reported not having enough food at home or an inability to pay for food. This is not representative of Michigan as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. About a third of respondents were not experiencing any challenges gardening because of the pandemic.
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.
Garden characteristics

Most respondents reported gardening at home, in their yard (92%) and/or on a balcony (6%). Twenty percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (19%) or took up a large section of their yard (68%). Growing vegetables (87%), herbs (84%), fruits (57%), and ornamentals (78%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, half answered less than 10%, one-fifth answered 25%, and one-tenth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Minnesota, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 35% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. Half of gardeners report no change in the amount they were planting in 2020, how much they were hoping to harvest, or how much gardening information they sought.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (43%) and getting protective gear (34%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 0% of respondents reported not having enough food at home or an inability to pay for food. This is not representative of Minnesota as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. About a quarter of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited personal difficulties faced during Covid-19

- Isolation / anxiety: 43%
- Obtaining PPE: 30%
- Reduced wages / hours: 22%
- School closures / loss of child care: 20%
- Other: 18%

Most frequently cited barriers to food access during COVID-19

- Exposure to virus when obtaining food: 50%
- Empty grocery shelves: 40%
- Concern about worker safety: 40%
- Limited selection at grocery: 39%
- Not applicable / none: 21%

Most common new community garden rules

- Social distancing: 83%
- More handwashing / cleaning: 77%
- Requiring protective gear: 65%
- Restricted number of people: 50%
- Other: 38%

Most requested support for gardening during COVID-19

- Not applicable / none: 40%
- Information on self-sufficiency: 24%
- Materials: 24%
- Information on improved productivity: 18%
- Seeds / seedlings: 18%
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.

Who are the gardeners?

78 gardeners from across New York responded to this survey. Responses were largely clustered in New York City and Ithaca, as shown in the map below. Most respondents were experienced gardeners; 58% had gardened for more than 10 years, while just 4% were gardening for the first time. In general, gardeners were female (86%) and highly educated: 85% had a bachelor’s degree or higher. Gardeners ranged in age from 24 to 77, with an average age of 53.
Garden characteristics

Most respondents reported gardening at home, in their yard (76%) and/or on a balcony (10%). Twenty-seven percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (27%) or took up a large section of their yard (44%). Growing vegetables (98%), herbs (94%), fruits (60%), and ornamentals (67%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, one-third answered less than 10% and one-third answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In New York, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 34% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

![Chart showing average scores for various reasons for having a garden during Covid-19.](chart.png)

COVID-19 changes

The biggest change for New York gardeners in 2020 was their desire to produce more from their gardens; they were also planting more. More than half of gardeners were also spending more time gardening due to lockdown restrictions.

![Table showing changes in time spent, amount planted, hoping to produce, and information sought.](table.png)
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (47%) and getting protective gear (36%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 3% reported not having enough food at home or an inability to pay for food. This is not representative of New York as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a third of respondents were not experiencing any challenges gardening because of the pandemic.
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.

Who are the gardeners?

56 gardeners from across Ohio responded to this survey. Responses were largely clustered in major cities like Columbus, Cleveland and Youngstown, as shown in the map below. Most respondents were experienced gardeners; 77% had gardened for more than 10 years, while just 7% were gardening for the first time. In general, gardeners were female (84%) and highly educated: 71% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 78, with an average age of 60.
Garden characteristics

Most respondents reported gardening at home, in their yard (93%) and/or on a balcony (5%). Twenty-five percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (23%) or took up a large section of their yard (70%). Growing vegetables (91%), herbs (79%), fruits (37%), and ornamentals (75%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, forty-one percent answered less than 10% and forty-three percent answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Ohio, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) learning/educating. About 58% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. Nearly half of respondents also reported planting more, socializing in the garden more, and seeking more information about gardening in 2020.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were getting protective gear (43%) and feeling isolated, anxious, or depressed (39%). Many gardeners also had concerns about the quality and quantity of food available at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 8% reported not having enough food at home or an inability to pay for food. This is not representative of Ohio as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. Information about production and self-sufficiency were the most requested forms of support aside from supplies. About a quarter of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited personal difficulties faced during Covid-19

- Obtaining PPE: 43%
- Isolation / anxiety: 39%
- Reduced wages / hours: 36%
- School closures / loss of child care: 16%
- Other: 16%

Most frequently cited barriers to gardening during COVID-19

- Getting materials: 43%
- Too little interaction: 38%
- Not applicable / none: 23%
- Finding information: 23%
- Getting protective gear: 14%

Most common new community garden rules

- Social distancing: 67%
- Requiring protective gear: 57%
- More handwashing / cleaning: 57%
- Restricted number of people: 57%
- Can only visit certain times: 57%

Most frequently cited barriers to food access during COVID-19

- Limited selection at grocery: 68%
- Exposure to virus when obtaining food: 66%
- Concern about worker safety: 53%
- Empty grocery shelves: 45%
- Poor quality food: 32%

Most requested support for gardening during COVID-19

- Not applicable / none: 38%
- Materials: 38%
- Seeds / seedlings: 27%
- Information on self-sufficiency: 27%
- Information on improved productivity: 21%
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction.

With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.
Garden characteristics

Most respondents reported gardening at home, in their yard (71%) and/or on a balcony (12%). Fifty-two percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (43%) or took up a large section of their yard (51%). Growing vegetables (96%), herbs (82%), fruits (60%), and ornamentals (74%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, thirty percent answered less than 10% and forty percent answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Washington, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) food production and food quality. About 25% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were planting more in 2020 and also hoping to harvest more.

"When I began gardening in a community garden my primary focus was just growing vegetables and I was pleasantly surprised by how much I enjoyed the community aspect of it. This year during COVID it has been one of the main activities contributing to my mental health."

COMMUNITY GARDENER, FEMALE, AGE 47, SEATTLE, WA

"I help manage a community garden. Many more people have requested plots during COVID-19 than in the before times."

COMMUNITY GARDENER, FEMALE, AGE 75, SEATTLE, WA

"I live in central urban Seattle, WA. The pandemic highlights how extremely limited the community gardening spaces are for those that want to garden for necessity or pleasure, or have a place to garden or enjoy the benefits of a garden within walking distance of their home."

COMMUNITY GARDENER, FEMALE, AGE 40, SEATTLE, WA
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (60%) and getting protective gear (44%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 4% reported not having enough food at home or an inability to pay for food. This is not representative of Washington as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. Information about production and self-sufficiency were the most requested forms of support aside from supplies. About one-fifth of respondents were not experiencing any challenges gardening because of the pandemic.

Most frequently cited personal difficulties faced during Covid-19

- Isolation / anxiety: 60%
- Obtaining PPE: 44%
- School closures / loss of child care: 21%
- Reduced wages / hours: 20%
- Other: 19%

Most frequently cited barriers to food access during COVID-19

- Exposure to virus when obtaining food: 85%
- Concern about worker safety: 53%
- Limited selection at grocery: 48%
- Empty grocery shelves: 42%
- Food shortages: 22%

Most common new community garden rules

- Social distancing: 88%
- More handwashing / cleaning: 64%
- Requiring protective gear: 61%
- Other: 39%
- No sharing of tools / gloves: 36%

Most requested support for gardening during COVID-19

- Not applicable / none: 35%
- Seeds / seedlings: 33%
- Information on self-sufficiency: 29%
- Information on improved productivity: 28%
- Materials: 26%
One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden. More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction. With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.

Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.

Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In the United States, many respondents were recruited through the Master Gardener Program. The information summarized here reflects the 132 survey responses received from gardeners in Wisconsin in summer 2020.

Who are the gardeners?
132 gardeners from across Wisconsin responded to this survey. Responses were scattered widely across the state, but tended to be concentrated in major cities like Milwaukee, as shown in the map below. Most respondents were experienced gardeners; 80% had gardened for more than 10 years, while <1% were gardening for the first time. In general, gardeners were female (90%) and highly educated: 75% had a bachelor’s degree or higher. Gardeners ranged in age from 25 to 84, with an average age of 62.
Garden characteristics

Most respondents reported gardening at home, in their yard (93%) and/or on a balcony (6%). Twenty-six percent gardened at a community garden. Their gardens were frequently the size of one or two raised beds (21%) or took up a large section of their yard (62%). Growing vegetables (90%), herbs (80%), fruits (43%), and ornamentals (80%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, one-third answered less than 10%, one-quarter answered 25%, and one-fifth answered 50%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In Wisconsin, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) outdoor physical activity, and 4) knowing the source of their food. About 43% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were also planting more in 2020.
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (44%) and getting protective gear (38%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 5% reported not having enough food at home or an inability to pay for food. This is not representative of Wisconsin as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. About one-third of respondents were not experiencing any challenges gardening because of the pandemic, and half reported not needing support in their gardening. For others, information on production and self-sufficiency were the most requested support other than materials.

Most frequently cited barriers to gardening during COVID-19

- Getting materials: 50%
- Too little interaction: 44%
- Not applicable / none: 15%
- Health concerns: 12%
- Finding information: 12%

Most common new community garden rules

- Social distancing: 71%
- More handwashing / cleaning: 65%
- No sharing of tools / gloves: 59%
- Requiring protective gear: 46%
- Restricted number of people: 35%

Most frequently cited barriers to food access during COVID-19

- Exposure to virus when obtaining food: 58%
- Limited selection at grocery: 42%
- Concern about worker safety: 35%
- Empty grocery shelves: 20%
- Not applicable / none: 11%

Most requested support for gardening during COVID-19

- Not applicable / none: 32%
- Materials: 20%
- Seeds / seedlings: 18%
- Information on self-sufficiency: 17%
- Information on improved productivity: 15%

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were feeling isolated, anxious, or depressed (44%) and getting protective gear (38%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic. Generally, gardeners in the study were not experiencing food insecurity: 5% reported not having enough food at home or an inability to pay for food. This is not representative of Wisconsin as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. About one-third of respondents were not experiencing any challenges gardening because of the pandemic, and half reported not needing support in their gardening. For others, information on production and self-sufficiency were the most requested support other than materials.

Most frequently cited barriers to gardening during COVID-19

- Getting materials: 50%
- Too little interaction: 44%
- Not applicable / none: 15%
- Health concerns: 12%
- Finding information: 12%

Most common new community garden rules

- Social distancing: 71%
- More handwashing / cleaning: 65%
- No sharing of tools / gloves: 59%
- Requiring protective gear: 46%
- Restricted number of people: 35%

Most frequently cited barriers to food access during COVID-19

- Exposure to virus when obtaining food: 58%
- Limited selection at grocery: 42%
- Concern about worker safety: 35%
- Empty grocery shelves: 20%
- Not applicable / none: 11%

Most requested support for gardening during COVID-19

- Not applicable / none: 32%
- Materials: 20%
- Seeds / seedlings: 18%
- Information on self-sufficiency: 17%
- Information on improved productivity: 15%

WISCONSIN, UNITED STATES
Study description
To learn how gardeners have been impacted by and responded to the Covid-19 pandemic, we surveyed 3,743 gardeners in multiple countries between June and August 2020, during the pandemic’s first wave. The survey was distributed through garden newsletters, social media, and targeted emails to gardener groups in researchers’ home countries. In the United States, many respondents were recruited through the Master Gardener Program. The information summarized here reflects the 60 survey responses received from gardeners in West Virginia in summer 2020.

Who are the gardeners?
60 gardeners from across West Virginia responded to this survey. Responses were largely clustered in Clarksburg, Charleston and Martinsburg, as shown in the map below. Most respondents were experienced gardeners; 75% had gardened for more than 10 years, while just 2% were gardening for the first time. In general, gardeners were female (83%) and highly educated: 85% had a bachelor’s degree or higher. Gardeners ranged in age from 30 to 85, with an average age of 65.

U.S. highlights
- One of the biggest changes for gardeners early in the pandemic was having more time to spend in the garden.
- More than half of gardeners reported feeling isolated, anxious, or depressed as a result of the pandemic. One of the biggest impacts people associated with gardening was improving mental well-being, particularly through relaxation and stress reduction.
- With many concerns about the safety of regular activities, gardeners found their gardens to be a refuge, where they could escape from the stress of the pandemic and connect with nature.
- Food production took on a greater significance for some in light of food supply disruption and rising food insecurity. Gardeners hoped to increase their own self-sufficiency and/or grow food for others in their communities.
Garden characteristics

Most respondents reported gardening at home, in their yard (92%) and/or at a community garden (8%). Their gardens were frequently the size of one or two raised beds (27%) or took up a large section of their yard (52%). Growing vegetables (94%), herbs (84%), fruits (71%), and ornamentals (69%) were all common. When asked how much of their fresh produce needs they thought they could meet from their garden, a quarter answered less than 10% and one-third answered 25%.

The value of pandemic gardens

Gardeners were asked to rate the importance of various reasons for having a garden during Covid-19, using a scale of 1 (not important) to 5 (very important). The chart below shows average scores. The higher the score, the more importance gardeners placed on it. In West Virginia, gardeners most valued 1) connecting to nature, 2) relaxing and relieving stress, 3) knowing their food’s source, and 4) food production and food quality. About 38% of gardeners said there had been no change in how they perceived gardening during the pandemic because they had always valued it.

COVID-19 changes

The biggest change for most gardeners was having more time to garden as a result of lockdown restrictions. More than half of gardeners were also planting more and hoping to harvest more in 2020.

"The food I can grow is food I can trust to be free of any outside contamination. I can raise organically."

HOME GARDENER, FEMALE, AGE 71, PRINCETON, WV

"Interruption of supply chains indicates the need for decentralizing food production; home and community gardens are a necessary element of this decentralization."

HOME GARDENER, FEMALE, AGE 66, BROOKHAVEN, WV

"I have gardened all my adult life. I am glad to see increased interest in this important activity. The health benefits (mental and physical) are perhaps more important even than the food value. I hope many individuals will continue to garden after the pandemic is over."

HOME GARDENER, FEMALE, AGE 69, MARLINTON, WV
COVID-19 CHALLENGES

Personal challenges

For those who were experiencing difficulties because of the pandemic, the most common challenges were getting protective gear (45%) and feeling isolated, anxious, or depressed (32%). Many gardeners also had concerns about the safety of obtaining food at the store during the first wave of the pandemic, as well as the quality and quantity of food available. Generally, gardeners in the study were not experiencing food insecurity: 2% reported not having enough food at home or an inability to pay for food. This is not representative of West Virginia as a whole, where food insecurity rates jumped significantly during the early months of the pandemic.

Garden challenges

The biggest challenge to gardening in the pandemic was getting supplies (like seeds and plants). Gardeners also reported missing social interactions while gardening. Information on production and self-sufficiency were the most requested support other than materials. About a quarter of respondents were not experiencing any challenges gardening because of the pandemic.

- Most frequently cited barriers to gardening during COVID-19:
  - Getting materials: 47%
  - Too little interaction: 33%
  - Not applicable / none: 18%
  - Getting protective gear: 25%
  - Finding information: 25%

- Most common new community garden rules:
  - No new rules: 43%
  - Social distancing: 43%
  - No sharing of tools / gloves: 40%
  - Restricted number of people: 40%
  - Other: 17%

- Most frequently cited personal difficulties faced during Covid-19:
  - Obtaining PPE: 45%
  - Isolation / anxiety: 32%
  - Other: 18%
  - Getting food: 13%
  - Accessing healthcare: 12%

- Most frequently cited barriers to food access during COVID-19:
  - Limited selection at grocery: 63%
  - Exposure to virus when obtaining food: 58%
  - Empty grocery shelves: 58%
  - Concern about worker safety: 40%
  - Food shortages: 32%
Appendix

Translations of German Infosheets
(Übersetzungen von Deutschland Infosheets)
Einleitung

Über diese Arbeit


Konkret wollten wir wissen:
- Welche Bedeutung hat die Gartenarbeit im Leben der Gärtner, wenn sie mit den Risiken und Herausforderungen der Pandemie fertig werden müssen?
- Wie verändern die Gärtner die Nutzung und Bewirtschaftung ihrer Gärten aufgrund der Pandemie?
- Welche Hindernisse, Bedürfnisse und Unterstützungsquellen stellen die Gärtner während der Pandemie fest?

Wir betrachten Gärten als eine Reihe von Orten, an denen Menschen eine Vielzahl von Pflanzen, Blumen, Obst oder Gemüse anbauen und pflegen. Gärten sind sehr unterschiedlich groß (von einzelnen Container bis zu ganzen Garten oder mehr), können auf öffentlichem oder privatem Grund liegen und individuell oder kollektiv bewirtschaftet werden.


Was wir gefunden haben
- Bei den Teilnehmern handelte es sich in der Regel um Frauen in den Mittfünfzigern mit Hochschulbildung.
- Während COVID-19 gab es fünf wesentliche Veränderungen bei der Gartenarbeit:
  - Die Menschen hatten mehr Zeit, sich mit der Gartenarbeit zu beschäftigen;
  - Gärten wurden zu einem "sichereren Ort", um Zeit im Freien zu verbringen, ein Zufluchtsort, an dem man seine eigenen Lebensmittel anbauen und sich mit der Natur verbinden kann;
  - Viele Menschen schätzten den Garten als sozialen Raum, in dem sie die Beziehungen zu Familie und Freunden stärken und Kontakte zu anderen Gärtnern und Nachbarn knüpfen konnten;
Einige Menschen wurden in ihrem Bemühen, ihre Gemeinschaft und ihren Planeten positiv zu beeinflussen, innovativer in ihren gärtnerischen Ansätzen;

Für viele jedoch hinderte der fehlende Zugang zu Saatgut, Platz und anderen Ressourcen sie daran, in dem gewünschten Umfang zu gärtnern.

Mehr als die Hälfte aller Teilnehmer fühlte sich in der Anfangsphase der Pandemie isoliert, ängstlich und/oder depri miert. Darüber hinaus machten sich 81 % der Teilnehmer Sorgen über den Zugang zu Lebensmitteln, insbesondere über die Ansteckung mit dem Virus bei der Beschaffung von Lebensmitteln sowie über die Auswahl und die Menge der Lebensmittel in den Geschäften.


### Wie geht es weiter?


### Regionale Kurzberichte


Wir wünschen Ihnen viel Interesse bei der Lesen der folgenden Zusammenfassungen.
**Danksagung**

Wir danken allen Gärtnerinnen und Gärtnern, die sich weltweit an unseren Umfragen beteiligt haben, für die Weitergabe ihrer Erfahrungen und ihres Fachwissens. Darüber hinaus möchten wir uns bei den zahlreichen Gartenorganisationen und -gruppen bedanken, die uns bei der Verteilung der Online-Umfrage unterstützt und uns geholfen haben, eine so breite Resonanz zu erhalten. Zu diesen Gruppen gehören:

University of California Master Gardener Program
The Royal Horticulture Society of UK
The Public Health Association Australia Western Australian Branch
ACSDistanceEducation
Geographies of Health & Wellbeing Research Group
Royal Botanic Gardens Sydney
Kevin Heinz Grow
The Garden Clinic
ABC Gardening Australia Magazine
Sophie Thomson (ABC presenter)
Gardening Australia
Community Greening NSW
Cooperative Gardens Commission
Therapeutic Horticulture Australia
Therapeutic landscape collective Tasmania
Transitions Town Maroobynong
"Reverge" - Community Verge Gardens
Australian Garden Council
Vic Park Urban Foresters
SABGR Lower Eyre Peninsula

Namatjira Dreaming Community
The Forge Garden
La Mesa Verde
Wingham Nursery and Florest
Enviro & Sustainable News (WA)
Cornell Cooperative Extension Tompkins County
Turf Growers Association Western Australia
The Community Plate
Australian Institute of Horticulture Inc.
Rotary Community Garden and Food Forest of Carol Springs
Community gardens in California
P-Patch Community Gardening Program
Crops Swap - Boronia, The Basin, Ferntree Gully and surrounds
South Florida Edible Gardening and Sustainable Living
Northeast Permaculture Network
German Ecological Society
Deutsche Gesellschaft für Gartenkunst und Landschaftskultur DGGL e. V.

**Ausführlichere Studienergebnisse finden Sie in diesen Dokumenten:**


Dr. Alessandro Ossola ist Professor für Stadtplanenkunde an der University of California Davis, USA, und Honorarforscher an der University of Melbourne und der Macquarie University, Sydney, Australien. Alessandros Forschungs- und Lehrtätigkeit umfasst verschiedene Themen wie Ökologie, Klimawandel, Forstwirtschaft, Wassermanagement, Lebensmittelproduktion, Stadtplanung und -gestaltung.

Dr. Brenda Lin ist interdisziplinäre Ökologin und leitet das Adaptive and Liveable Cities Team bei der Commonwealth Science and Industrial Research Organisation (CSIRO), der wissenschaftlichen Abteilung der australischen Regierung. Ihr Forschungsschwerpunkt liegt auf den globalen Umwelttreibern des Landschaftswandels und den daraus resultierenden Auswirkungen auf die Ökosystemleistungen, insbesondere auf die Klimaregulierung und die Auswirkungen auf die Gesundheit und das Wohlbefinden des Menschen. Ein Schwerpunkt ihrer Arbeit liegt auf städtischen Ökosystemen, wo sie die Beziehungen zwischen Vegetationsbedeckung, Umweltleistungen und menschlicher Gesundheit untersucht.


Dr. Lucy Diekmann ist Beraterin für urbane Landwirtschaft und Lebensmittelsysteme an der University of California Cooperative Extension. Sie arbeitet mit gemeindebasierten Organisationen, lokalen Regierungs partnern, Netzwerken für Lebensmittelsysteme und städtischen Landwirten und Gärtner an Forschungs- und Beratungsprojekten, um gerechtere und widerstandsfähigere städtische Lebensmittelsysteme zu schaffen.

Dr. Monika Egerer ist Professorin an der Technischen Universität München in der School of Life Sciences. In ihrer Forschung untersucht sie die Beziehungen zwischen der Erhaltung der biologischen Vielfalt, der Bereitstellung von Ökosystemleistungen und dem menschlichen Wohlbefinden in städtischen Ökosystemen, mit einem Schwerpunkt auf urbanen Gärten. Monikas Arbeit zielt darauf ab, Theorie und Praxis zu verbinden, um produktive Systeme in Städten zu schaffen, die Nahrung, Lebensraum und Gemeinschaft bieten.


Summer Cortez ist Mitglied der Community Development Graduate Group an der UC Davis. Ihre Forschungsarbeit basiert auf dem Konzept der Ernährungsgerechtigkeit und untersucht Möglichkeiten zur Verbesserung der Widerstandsfähigkeit des Lebensmittelsystems und des Zugangs zu Lebensmitteln in kalifornischen Gemeinden durch die Basis und die öffentliche Politik.
**GARTENARBEIT WÄHREND COVID-19:**
Berlin, Deutschland

**Beschreibung der Studie**

**Wer sind die Gärtner:innen?**
120 Gärtner:innen aus Berlin haben an dieser Umfrage teilgenommen. Die Antworten konzentrierten sich größtenteils auf das Zentrum Berlins, wie die Karte unten zeigt. Viele der Befragten waren erfahrene Gärtner; 40 % gärtnern seit mehr als 10 Jahren, während nur 8 % zum ersten Mal gärtnern. Im Allgemeinen waren die Gärtner weiblich (71 %) und sehr gut ausgebildet: 85 % verfügten über einen Bachelor-Abschluss oder höher. Das Alter der Gärtner reichte von 19 bis 74 Jahren, mit einem Durchschnittsalter von 45 Jahren.

**Highlights**
- In der Anfangsphase der Pandemie hatten die Gärtner unter anderem Schwierigkeiten, Schutzkleidung zu bekommen, Schulschließungen und den Verlust von Kinderbetreuung. Viele berichteten auch, dass sie sich isoliert, ängstlich oder deprimiert fühlten.
- In diesem Zusammenhang wurde der Garten im Freien geschätzt, weil er zum Stressabbau beiträgt und es den Gärtnern ermöglicht, in sicherer Weise mit der Natur und anderen Mitgliedern der Gemeinschaft in Kontakt zu treten.
- Die größten Veränderungen im Garten waren, dass die Gärtner mehr Zeit für die Gartenarbeit hatten und viele mehr pflanzten als in den Vorjahren. Die Gärtner berichteten, dass sie ihre Gärten nun besser pflegen und mit neuen Techniken und Pflanzen experimentieren können.
- Etwa die Hälfte der Teilnehmer gab an, während der Pandemie keine Hindernisse bei der Gartenarbeit erlebt zu haben. Für die andere Hälfte war die Beschaffung von Vorräten, z. B. Saatgut, die größte Herausforderung bei der Gartenarbeit während der Pandemie.
Merkmale des Gartens

Viele der Teilnehmer gaben an, zu Hause im Garten (43 %) und/oder auf einem Balkon (42 %) zu gärtnern. Einundvierzig Prozent gärtnerten in einem Gemeinschaftsgarten. Die Größe der Gärten varierte, aber in der Regel handelte es sich um große Parzellen (60 %). Der Anbau von Gemüse (77 %), Kräutern (83 %), Obst (62 %) und Zierpflanzen (73 %) war weit verbreitet. Auf die Frage, wie viel ihres Bedarfs an frischen Produkten sie aus ihrem Garten decken konnten, antworteten viele (73 %) mit weniger als 10 %. Ein Fünftel antwortete mit 25 %.

Der Bedeutung der Pandemiegärten


COVID-19 Änderungen

Die größte Veränderung für die meisten Gärtnern war, dass sie aufgrund der Schließungsbeschränkungen mehr Zeit für den Garten hatten. Etwa die Hälfte der Gärtner pflanzte 2020 auch mehr an. Die Mehrheit der Gärtner gab jedoch an, dass sich die Menge der Produkte, die sie zu ernten hofften, die Anzahl der Kontakte im Garten und die Menge der Informationen über den Garten, die sie suchten, nicht verändert haben.
COVID-19 HERAUSFORDERUNGEN

Persönliche Herausforderungen

Diejenigen, die aufgrund der Pandemie Schwierigkeiten hatten, fühlten sich am häufigsten isoliert, ängstlich oder deprimiert (34 %) und hatten Probleme, Schutzausrüstung zu bekommen (33 %). Viele Gärtner machten sich auch Sorgen über die Sicherheit bei der Beschaffung von Lebensmitteln im Laden während der ersten Welle der Pandemie. Im Allgemeinen waren die Gärtner in der Studie nicht von Ernährungsunsicherheit betroffen: 4 % gaben an, nicht genug Lebensmittel zu Hause zu haben oder nicht in der Lage zu sein, für Lebensmittel zu bezahlen. 13 % gaben an, seit Beginn der Pandemie weniger frische Lebensmittel zu Hause zu haben.

Herausforderungen im Garten

Mehr als die Hälfte der Teilnehmer hatte keine Probleme bei der Gartenarbeit aufgrund der Pandemie. Für andere war die größte Herausforderung bei der Gartenarbeit während der Pandemie die Beschaffung von Vorräten (wie Saatgut und Pflanzen). Informationen über bestimmte Pflanzen, die Produktion und die Selbstversorgung waren neben der Versorgung die am häufigsten nachgefragten Formen der Unterstützung.

Die am häufigsten genannten Hindernisse für die Gartenarbeit bei COVID-19

Die häufigsten neuen Gemeinschaftsgartenregeln

Am meisten gewünschte Unterstützung für die Gartenarbeit während COVID-19
Beschreibung der Studie


Wer sind die Gärtner:innen?

69 Gärtner:innen aus ganz Ostdeutschland haben an dieser Umfrage teilgenommen. Die Antworten waren über die östlichen Bundesländer verstreut, wobei die höchste Konzentration von Antworten in Leipzig und Halle zu verzeichnen war, wie aus der Karte hervorgeht. Viele der Teilnehmer waren erfahrene Gärtner; 52 % gärtnern seit mehr als 10 Jahren, während nur 3 % zum ersten Mal gärtnern. Im Allgemeinen waren die Gärtner weiblich (72 %) und sehr gut ausgebildet: 84 % verfügten über einen Bachelor-Abschluss oder höher. Das Alter der Gärtner reichte von 25 bis 71 Jahren, mit einem Durchschnittsalter von 47 Jahren.

Highlights


- Die größten Veränderungen im Garten waren, dass die Gärtner mehr Zeit für die Gartenarbeit hatten und viele mehr pflanzten als in den Vorjahren. Die Gärtner berichteten, dass sie ihre Gärten nun besser pflegen und mit neuen Techniken und Pflanzen experimentieren können.

- Etwa die Hälfte der Teilnehmer gab an, während der Pandemie keine Hindernisse bei der Gartenarbeit erlebt zu haben. Für die andere Hälfte war die Beschaffung von Vorräten, z. B. Saatgut, die größte Herausforderung bei der Gartenarbeit während der Pandemie.
**Merkmale des Gartens**

Viele der Teilnehmer gaben an, zu Hause im Garten (64 %) und/oder auf einem Balkon (29 %) zu gärtnern. Dreiviertel Prozent gärtnerten in einem Gemeinschaftsgarten. Die Größe der Gärten war unterschiedlich, aber in der Regel handelte es sich um große Parzellen (70 %). Der Anbau von Gemüse (81 %), Kräutern (91 %), Obst (80 %) und Zierpflanzen (84 %) war weit verbreitet. Auf die Frage, wie viel ihres Bedarfs an frischen Produkten sie aus ihrem Garten decken konnten, antwortete die Hälfte mit weniger als 10 %, ein Drittel mit 25 % und ein Fünftel mit 50 %.

**Der Bedeutung der Pandemiegärten**


**COVID-19 Änderungen**


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**Mir fehlt im Alltag körperliche Betätigung, Freizeit und Frischluft. Dies konnte ich jetzt neu entdecken. Und möchte es künftig auch in meinen beruflichen Alltag integrieren bzw. weniger arbeiten.**

**HAUSGÄRTNER, WEIBLICH, 52 JAHRE, HALLE, ST**

**das Gärtnern war mir schon immer wichtig (v.a. Artenschutzaspekt / Biodiversität in der Stadt)**

**GEMEINSCHAFTSGÄRTNERIN, WEIBLICH, 60 JAHRE, LEIPZIG, SN**

**Ich war sehr glücklich über die Möglichkeit, "sicher" nach draußen gehen zu können und hatte auch endlich Zeit, mich um meine große Dachterrasse und meinen Balkon zu kümmern. Seitdem ich mehr Arbeit in den Garten stecke und damit eine stärkere "Verbindung" zu meinen Pflanzen habe, ist der Garten noch wertvoller für mich geworden.**

**HAUSGÄRTNERIN, WEIBLICH, 41 JAHRE, MÜNCHEBERG, BB**
COVID-19 HERAUSFORDERUNGEN

Persönliche Herausforderungen

Bei denjenigen, die aufgrund der Pandemie mit Schwierigkeiten zu kämpfen hatten, waren die häufigsten Probleme die Schließung von Schulen und der Verlust der Kinderbetreuung (36 %) sowie die Beschaffung von Schutzausrüstung (25 %). Im Allgemeinen waren die Gärtner in der Studie nicht von Ernährungsunsicherheit betroffen: 2 % gaben an, nicht genug Lebensmittel zu Hause zu haben oder nicht in der Lage zu sein, für Lebensmittel zu bezahlen. 15 % gaben an, seit Beginn der Pandemie weniger frische Lebensmittel zu Hause zu haben.

Herausforderungen im Garten

Beschreibung der Studie


Wer sind die Gärtner:innen?

129 Gärtner:innen aus ganz Norddeutschland haben an dieser Umfrage teilgenommen. Die Antworten waren über die nördlichen Bundesländer verstreut, wobei die höchste Konzentration von Antworten in Hamburg zu verzeichnen war, wie die Karte unten zeigt. Viele der Teilnehmer waren erfahrene Gärtner; 59 % gärtnern schon seit mehr als 10 Jahren, während nur 4 % zum ersten Mal gärtnern. Im Allgemeinen waren die Gärtner weiblich (72 %) und sehr gut ausgebildet: 78 % verfügten über einen Bachelor-Abschluss oder höher. Das Alter der Gärtner reichte von 25 bis 84 Jahren, mit einem Durchschnittsalter von 52 Jahren.

Highlights


- In diesem Zusammenhang wurde der Garten im Freien geschätzt, weil er zum Stressabbau beiträgt und es den Gärtner ermöglicht, in sicherer Weise mit der Natur und anderen Mitgliedern der Gemeinschaft in Kontakt zu treten.

- Die größten Veränderungen im Garten waren, dass die Gärtner mehr Zeit für die Gartenarbeit hatten und viele mehr pflanzten als in den Vorjahren. Die Gärtner berichteten, dass sie ihre Gärten nun besser pflegen und mit neuen Techniken und Pflanzen experimentieren können.

- Etwa die Hälfte der Teilnehmer gab an, während der Pandemie keine Hindernisse bei der Gartenarbeit erlebt zu haben. Für die andere Hälfte war die Beschaffung von Vorräten, z. B. Saatgut, die größte Herausforderung bei der Gartenarbeit während der Pandemie.
**Merkmale des Gartens**

Viele der Teilnehmer gaben an, zu Hause im Garten (67 %) und/oder auf einem Balkon (16 %) zu gärtnern. Siebenundzwanzig Prozent gärtnerten in einem Gemeinschaftsgarten. Die Größe der Gärten war unterschiedlich, aber in der Regel handelte es sich um große Parzellen (76 %). Der Anbau von Gemüse (73 %), Kräutern (84 %), Obst (76 %) und Zierpflanzen (76 %) war weit verbreitet. Auf die Frage, wie viel ihres Bedarfs an Frischwaren sie ihrer Meinung nach aus ihrem Garten decken konnten, antwortete mehr als die Hälfte (59 %) mit weniger als 10 %. Ein Viertel antwortete mit 25 %.

**Der Bedeutung der Pandemiegärten**


**COVID-19 Änderungen**

Die größte Veränderung für die meisten Gärtner bestand darin, dass sie aufgrund der Schließung mehr Zeit für den Garten hatten. Die Mehrheit der Gärtner gab jedoch an, dass sich die Menge der angepflanzten Pflanzen, die Menge der Produkte, die sie zu ernten hofften, die Anzahl der Kontakte im Garten und die Anzahl der Informationen über den Garten, die sie suchten, nicht verändert haben.

"Mir ist die Wichtigkeit umweltschonender und regional erzeugter Lebensmittel noch einmal bewusster geworden."

**HAUSGÄRTNERIN, WEIBLICH, 66 JAHRE, HEMMINGEN, NI**

"Gärten und Grünflächen sind sehr wichtig in Städten, tragen zur Erholung und Entspannung bei und sollten mehr gefördert werden."

**HAUSGÄRTNERIN, WEIBLICH, 46 JAHRE, HAMBURG, HH**
**COVID-19 HERAUSFORDERUNGEN**

**Persönliche Herausforderungen**

Bei denjenigen, die aufgrund der Pandemie mit Schwierigkeiten zu kämpfen hatten, waren die häufigsten Probleme die Beschaffung von Schutzausrüstung (23 %) und reduzierte Löhne oder Arbeitszeiten (20 %). Im Allgemeinen waren die Gärtner in der Studie nicht von Ernährungsunsicherheit betroffen: 2 % gaben an, nicht genug Lebensmittel zu Hause zu haben oder nicht in der Lage zu sein, für Lebensmittel zu bezahlen. 9 % gaben an, seit Beginn der Pandemie weniger frische Lebensmittel zu Hause zu haben.

**Herausforderungen im Garten**

Beschreibung der Studie


Wer sind die Gärtner:innen?

139 Gärtner:innen aus Süddeutschland haben an dieser Umfrage teilgenommen. Die Antworten konzentrierten sich vor allem auf Stuttgart und München, wie die Karte unten zeigt. Viele Teilnehmern waren erfahrene Gärtner; 63 % gärtnern seit mehr als 10 Jahren, während nur 4 % zum ersten Mal gärtnern. Im Allgemeinen waren die Gärtner weiblich (72 %) und sehr gut ausgebildet: 79 % verfügten über einen Bachelor-Abschluss oder höher. Das Alter der Gärtner reichte von 21 bis 79 Jahren, mit einem Durchschnittsalter von 50 Jahren.

Highlights


- In diesem Zusammenhang wurde der Garten im Freien geschätzt, weil er Stressabbau beiträgt und es den Gärtner ermöglicht, in sicherer Weise mit der Natur und anderen Mitgliedern der Gemeinschaft in Kontakt zu treten.

- Die größten Veränderungen im Garten waren, dass die Gärtner mehr Zeit für die Gartenarbeit hatten und viele mehr pflanzten als in den Vorjahren. Die Gärtner berichteten, dass sie ihre Gärten nun besser pflegen und mit neuen Techniken und Pflanzen experimentieren können.

- Etwa die Hälfte der Teilnehmer gab an, während der Pandemie keine Hindernisse bei der Gartenarbeit erlebt zu haben. Für die andere Hälfte war die Beschaffung von Vorräten, z. B. Saatgut, die größte Herausforderung bei der Gartenarbeit während der Pandemie.
Merkmale des Gartens

Viele der Teilnehmer gaben an, zu Hause im Garten (73 %) und/oder auf einem Balkon (23 %) zu gärtnern. Zehn Prozent gärtnerten in einem Gemeinschaftsgarten. Ihre Gärten waren häufig so groß wie ein oder zwei Hochbeete (24 %) oder nahmen einen großen Teil ihres Gartens ein (45 %). Der Anbau von Gemüse (73 %), Kräutern (86 %), Obst (58 %) und Zierpflanzen (71 %) war weit verbreitet. Auf die Frage, wie viel ihres Bedarfs an frischen Produkten sie aus ihrem Garten decken konnten, antworteten viele (65 %) mit weniger als 10 %. Ein Fünftel antwortete mit 25 %.

Der Bedeutung der Pandemiegärten


COVID-19 Änderungen

Die größte Veränderung für die meisten Gärtner war, dass sie aufgrund der Schließungsbeschränkungen mehr Zeit für den Garten hatten. Etwa die Hälfte der Gärtner pflanzte 2020 auch mehr an. Die Mehrheit der Gärtner gab jedoch an, dass sich die Menge der Produkte, die sie zu ernten hofften, die Anzahl der Kontakte im Garten und die Menge der Informationen über den Garten, die sie suchten, nicht verändert haben.
COVID-19 HERAUSFORDERUNGEN

Persönliche Herausforderungen

Bei denjenigen, die aufgrund der Pandemie mit Schwierigkeiten zu kämpfen hatten, waren die häufigsten Probleme die Schließung von Schulen und der Verlust von Kinderbetreuung (26 %) sowie das Gefühl der Isolation, Angst oder Depression (34 %). Viele Gärtner machten sich auch Sorgen über die Sicherheit der Lebensmittelbeschaffung im Laden während der ersten Welle der Pandemie. Im Allgemeinen waren die Gärtner in der Studie nicht von Ernährungsunsicherheit betroffen: 0 % gaben an, nicht genug Lebensmittel zu Hause zu haben oder nicht in der Lage zu sein, für Lebensmittel zu bezahlen. 6 % gaben an, seit Beginn der Pandemie weniger frische Lebensmittel zu Hause zu haben.

Herausforderungen im Garten

GARTENARBEIT WÄHREND COVID-19: Westdeutschland

Beschreibung der Studie


Wer sind die Gärtner:innen?


Highlights


- Die größten Veränderungen im Garten waren, dass die Gärtner mehr Zeit für die Gartenarbeit hätten und viele mehr pflanzten als in den Vorjahren. Die Gärtner berichteten, dass sie ihre Gärten nun besser pflegen und mit neuen Techniken und Pflanzen experimentieren können.

- Etwa die Hälfte der Teilnehmer gab an, während der Pandemie keine Hindernisse bei der Gartenarbeit erlebt zu haben. Für die andere Hälfte war die Beschaffung von Vorräten, z. B. Saatgut, die größte Herausforderung bei der Gartenarbeit während der Pandemie.
**Merkmale des Gartens**

Viele der Teilnehmer gaben an, zu Hause im Garten (82 %) und/oder auf einem Balkon (17 %) zu gärtnern. Vierzehn Prozent gärnten in einem Gemeinschaftsgarten. Die Größe der Gärten variierte, aber in der Regel handelte es sich um große Grundstücke (74 %). Der Anbau von Gemüse (65 %), Kräutern (85 %), Obst (65 %) und Zierpflanzen (70 %) war weit verbreitet. Auf die Frage, wie viel ihres Bedarfs an frischen Produkten sie aus ihrem Garten decken konnten, antworteten viele (65 %) mit weniger als 10 %. Ein Viertel antwortete mit 25 %.

**Der Bedeutung der Pandemiegärten**


**COVID-19 Änderungen**

Die größte Veränderung für die meisten Gärtner war, dass sie aufgrund der Schließungsbeschränkungen mehr Zeit für den Garten hatten. Etwa die Hälfte der Gärtner pflanzte 2020 auch mehr an. Die Mehrheit der Gärtner gab jedoch an, dass sich die Menge der Produkte, die sie zu ernten hofften, die Anzahl der Kontakte im Garten und die Menge der Informationen über den Garten, die sie suchten, nicht verändert haben.

"Der Wert eines eigenen Gartens und der Selbstversorgung ist mir stärker bewusst geworden."

SCHULGÄRTNERIN, WEIBLICH, 45 JAHRE, BONN, NW


HAUSGÄRTNER, WEIBLICH, 55 JAHRE, BIELEFELD, NW


HAUSGÄRTNER, WEIBLICH, 34 JAHRE, MAINZ, RP
COVID-19 Herausforderungen

Persönliche Herausforderungen

Bei denjenigen, die aufgrund der Pandemie mit Schwierigkeiten zu kämpfen hatten, waren die häufigsten Probleme die Beschaffung von Schutzausrüstung (33 %) und der Umgang mit Schulschließungen und dem Verlust der Kinderbetreuung (29 %). Im Allgemeinen waren die Gärtner in der Studie nicht von Ernährungsunsicherheit betroffen: 1 % gab an, nicht genug Lebensmittel zu Hause zu haben oder nicht in der Lage zu sein, für Lebensmittel zu bezahlen. 13 % gaben an, seit Beginn der Pandemie weniger frische Lebensmittel zu Hause zu haben.

Herausforderungen im Garten


Die am häufigsten genannten persönlichen Schwierigkeiten während des Covid-19

Die am häufigsten genannten Hindernisse für die Gartenarbeit bei COVID-19

Die am häufigsten genannten neuen Gemeinschaftsgartenregeln

Die am meisten gewünschte Unterstützung für die Gartenarbeit während COVID-19