Solutions for Living

Tools for the Enabled Garden

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Solutions for Living: Tools for the Enabled Garden

Gardening is one of America’s favorite leisure outdoor activities. According to the National Gardening Association, more than 91 million U.S. households (28 million of whose members are over age 55) participate in some type of lawn or garden activity. Most gardeners, novice and experienced, agree gardening is good for the body, mind, and soul. Bodies are strengthened through gardening. Minds are refreshed through gardening’s therapeutic benefit of connecting with nature. Spirits are renewed through the quiet sanctuary of the garden.

But, for those who experience the effects of arthritis, aging, or other physical limitations, gardening can become challenging and sometimes frustrating. Identifying each gardener’s individual needs, adapting his or her garden and gardening practices, and utilizing the wide variety of excellent tools and techniques available will ensure that the capabilities of every gardener are maximized.

Purpose of this document

This document shows examples of gardening tools and solutions that, regardless of limitation or chronic condition, allow almost everyone to enjoy the benefits of gardening. The document is arranged into the following categories:

- Solutions for garden containers
- Solutions for cultivating
- Solutions for seeding, planting, and watering
- Solutions for transporting and storing
- Solutions for comfort and safety

This bulletin includes only some of the many excellent tools and solutions available.

In addition, it will not cover topics such as the “jobs” of gardening (digging, weeding, planting, or pruning), gardeners with special needs, or garden designs etc. Some helpful online resources that cover these topics and more include:

- Gardening for Life: A Guide to Garden Adaptations (Washington State Master Gardeners)
  http://cru.cahe.wsu.edu/CEPublications/misc0545/misc0545.pdf
- Gardens for Every Body (University of Missouri AgrAbility)
  http://agrability.missouri.edu/gardenweb
- Accessible Gardens for Persons with Disabilities
Overcoming limitations when gardening

Limitations can make gardening more difficult and less enjoyable. Following are a few techniques that can help enhance the gardening experience despite limitations:

Know your limits. Be aware of just how much physical activity you can manage.

Be kind to your body. Gentle stretches loosen joints and prevent injury.

Use joint-friendly tools. Long-handled tools allow gardeners to stand, not stoop, and easy-to-grip hand tools reduce wrist and hand strain. Use a kneeling pad or even a scooter wagon to sit on while weeding.

Practice correct posture. Let your larger/stronger joints do the work when possible. Keep items close to your body as you carry them. Stand or sit up straight when working and change positions often.

Think “inside” the box. Instead of a traditional garden, try a flower box or raised garden to eliminate stooping.

Take frequent breaks. When gardening, pain can build if joints are not rested. Frequent breaks allow one to appreciate the garden, plan tasks, and get more done before fatigue sets in.

Finally, and with caveats

As with any type of physical activity, gardeners should consult their healthcare provider regarding their specific conditions. Not all the examples in this bulletin are appropriate for all gardeners. Strength, stamina, type of limitation plus financial cost of some items may impact the utility of certain tools. In addition, some solutions to be used as intended may require a companion gardener. However, by working in moderation and utilizing some of the tools and solutions listed in this bulletin, gardening can continue to be enjoyed for many years.

Due to the dynamic nature of the World Wide Web, Internet sources may sometimes be difficult to find. Addresses change and pages can disappear over time. If you find problems with any of the listed websites in the publication, please contact Wyoming AgrAbility. Contact information is on the back cover of this publication.
Solutions for garden containers

The world of gardening is ever-changing. Creativity and innovative ideas for planting have given horticulture a new meaning, and new designs for the typical garden bed have increased accessibility for all. Tending to plants no longer means constant kneeling, bending, and strain on the body. After reading over these ideas for container gardening, maybe you will opt to think outside the garden plot!

Tiered boxes and planters

Tiered planters and boxes provide unique space-saving designs that create gardens within a garden using easy-to-build containers. This design provides better access for a seated gardener.

Vertical gardens

A good way to utilize space when gardening is to go up – as in, vertical gardening! This type of planting makes use of all kinds of areas including walls, fencing, and trellises. Reduces the strain of bending.

Hanging basket with pulley

Great for accessing hanging plants for watering, this pulley system eliminates the hassle of trying to reach plants. Holds up to 25 pounds.

Recycled garden pots

Almost anything that can hold soil can serve as a garden container as long as drainage is considered. Let your imagination be your guide.
Mobile garden containers
Bring the garden to the gardener. Mobile gardens come in a variety of forms. Wheelbarrows, grocery carts, wagons, and planters with wheels can be transformed into personal garden spots. Remember to drain the container.

Elevated beds
Elevated beds increase accessibility and make gardening convenient while sitting or standing. Elevated beds, with or without casters, allow for versatility in garden location. Beds should be at least 8 inches deep.

Beds built to maximize gardening for everyone
Minimize bending and stooping with a raised garden bed.

Wheelchair gardening
Or, accommodate mobility needs with an elevated bed built for wheelchair accessibility. The open space under elevated beds keeps soil cooler which may reduce length of the growing season.

Sensory gardens
Sensory gardens incorporate fragrant flowers, vibrant colors, unique textures, and nature sounds such as flowing water, so that all may enjoy the beauty gardens provide. Some sensory gardens require regular maintenance.
If you’ve ever twisted and stretched while kneeling in the garden, you know gardening can be physically challenging. Fortunately, there are many ergonomic and adaptive tools to help gardeners with limitations. However, just because a tool says it is “ergonomic” does not mean it is ergonomic for you. Try out the tool; it must fit your needs and your body.

**Ergonomic garden tools (Radius)**
These tools are made with large, textured, no slip handles that allows for a better grip.

**Pistol grip tools**
These grips are designed to use less energy and to help keep the wrist and forearm in proper alignment.

**Cordless garden tools** *(Black & Decker)*
Battery-powered tools help reduce muscle strain and allow greater freedom of movement with no cord limitation; batteries add weight.

**Long-handled tools**
A long handle acts as a lever, transferring your energy to the tool and multiplying the effect so you can garden with less effort. Not as practical for gardeners in wheelchairs.

**Easy-grip, long-reach tools**
Long-handled tools are designed to provide additional reaching capability for gardeners who may need to sit on a chair or stool due to arthritis or other limitations.

**Garden tool wrap**
Adding bright, garden tool wrap or duct tape to hand tools provides a better grip and helps gardeners with aging eyes find misplaced tools in the garden bed.
Light weight aluminum garden tools
Strong alloy allows gardeners to perform heavier pruning or shearing without the weight of wooden handles. They do require strength to work properly.

Telescoping tools
Adjustable handle lengths minimize back and knee strain and allow gardeners to remain standing.

Spring action tools (Fiskars)
Spring-action sheers, pruners, and clippers with a self-opening feature help reduce strain on the muscles and joints.

Back-saving tools (Hound Dog)
A variety of tools with different features will handle most lawn or garden chores without bending or stooping. Gardeners can weed, aerate, trim, edge, till, and cultivate. They require upper body strength, however.

Specialty tools
Garden tool manufacturers are continually developing innovative devices such as a Garden Rocker Seat, ToolStep, and Gator Grabber to help gardeners with limitations continue to do what they love. Check cost and feasibility of tools for your gardening situation.
Solutions for seeding, planting, and watering

Gardening is a fulfilling activity. Sometimes though, the task of planting and watering seeds and bulbs can be difficult. Fortunately, there are solutions for seeding, planting, and watering, many of which help accommodate physical limitations. The following ideas minimize fatigue and strain so you can continue doing what you enjoy.

Vibrating hand seed sower
(Seedmaster)
Makes seeding faster and easier. Thumb pressure on the rotating wheel activates vibration to create a steady flow of seeds into the soil.

Seed tape
Plant straight rows of seeds with ease while making the most of the space in any type of garden. Unroll the strips of biodegradable paper and cover with soil. Germination may be longer.

Roto planter (Yard Butler)
Auger-type tools prevent muscle strain and fatigue by doing the digging for you. Capable of creating deep planting holes using a cordless drill. Still need to plant, though, and can “polish” sides of the hole preventing roots from spreading.

Bulb planter (HoundDog)
Bulb planters lessen the effort of planting by easing the pain of bending and kneeling. The tool digs holes and expels soil with a squeeze of the handle trigger. Requires hand strength.
Front trigger turret wand (Orbit)
Watering wands make it easy to water hanging plants and hard-to-reach areas. Most have variable spray patterns and flow control levers to ease muscle strain.

Faucet extender
These add watering options for the gardener. The faucet extender can be placed anywhere to make far-reaching garden beds easily accessible for watering. Be careful not to overload and break the shaft.

Easy-pour watering can (Fiskars)
With a dual-handle design and adjustable spout, this watering can minimizes hand and wrist strain. Remember, though, water is heavy so fill accordingly.

Hose carts
Hose carts are easy to maneuver and make transporting garden hose hassle-free. This cart can hold up to 300 feet of hose and includes a basket for storing gardening tools. Requires arm and body strength to use wind-up mechanism and move the cart.

Retractable hose reel (Frontgate)
Automatic retractable reels eliminate the hassle of gathering up hoses and makes for convenient storing. This swivel model is designed to be wall-mounted.

Automated watering systems
Automated systems can alleviate many watering hassles. While they can be costly, they can save time, money, and physical strain thanks to the convenience of programmable watering.
Solutions for transporting and storing

Almost every garden job involves moving things, whether it’s carrying tools, moving plants and bags of compost, or taking weeds or cuttings to the compost pile. Carrying and storing can be a challenge but here are some ways to make gardening easier.

Bucket tool organizer
Perfect for keeping tools organized and easily accessible. With the hook and loop fastener strap, it fits any 5-gallon bucket and makes carrying tools easier as long as it is not overloaded.

Golf bag for gardening?
A spare golf bag can carry unwieldy rakes, shovels, and hoes from the garage to your own fairway (a.k.a. backyard!).

Fold-it aluminum garden cart
Use it to haul wood, soil, mulch, leaves, and flowers. Folds in seconds to a compact size requiring less than 2 square feet of floor space.

Muck bucket cart (Little Giant)
Carts help with common tasks in the yard and garden. A retaining ring eases loading and unloading, keeping objects secure when up. Objects slide off easily when ring is down. Good for transporting soil, compost, and pots.

Garden gopher workstation
This cart carries, stores, and transports any sized garden tool. It also allows the gardener to transport heavy plants, pots, fertilizer, and bags of mulch with less effort.

Kneeler tool pouch
Keep your essential tools nearby when you garden by stowing them in this tool pouch, attached to a Garden Kneeler. (See following section for more on the Garden Kneeler).
A mailbox in the garden?
Here’s a great tip we’ve heard—use an old mailbox to store everyday garden tools right at the garden site!

Patio storage bench
This type of bench not only provides a storage place for garden tools and supplies, it creates an extra spot for gardeners to take a load off as well!

Wheelchair accessible storage shed
If building a garden storage shed, consider ample space for access as well as work space for gardeners using wheelchairs.

Furniture as potting benches
Convert a buffet table, desk, cupboard or other furniture into a work and storage bench for plants and tools.

Garden tool organizer
There are many products that can help organize garden tools and seeds—in a storage shed, a garage, or even attached to the inside of the door.
Solutions for comfort and safety

Gardening is an enjoyable pastime and excellent form of exercise for mobility, flexibility, and use of motor skills while helping to improve strength and endurance. For comfort and safety remember to avoid over-exertion, drink plenty of water, dress for safety and sun protection, and most importantly, know your limits and take breaks when tiring.

T-grip and D-grip
These grips adjust for any long handle garden tool. For example, they allow the gardener to drag a hoe through the soil instead of hacking to ease pain to wrists and forearms.

Rose garden gloves
Gardening gloves protect hands against cuts, thorns, soil, potting mix, insect bites, and skin irritants.

Garden tool sharpener
Keeping tools sharp reduces fatigue and allows for easier gardening.

Stretch knee pads
Your knees will thank you with these comfortable, durable, and flexible pads. They fit over long pants and stay in place.
Helpful Hand brace
The Helpful Hand holds different kinds of special tools, including hand garden tools, and takes stress off wrists, thumbs, or hands.

Folding garden kneeling stool
For gardeners who need help getting up, reversible kneelers are useful. They are padded for kneeling, and the arms can be used for lowering to kneel or rising to a standing position.

Battery-operated portable timer
For those with limited stamina, pace oneself to prevent over-exertion or muscle fatigue.

Garden access and paving
A flat surface and paving are important considerations for access and safety to and around the garden for gardeners with reduced mobility.
Walkie-talkies
Keep these close by to call for help in case of an accident, overexertion, or heat exhaustion.

Resting benches
Place a bench close to the garden area to allow gardeners to catch their breath and to “stop and smell the flowers.”

Sun protection
Stay protected when working in the sun.
Wyoming AgrAbility provides education, networking and information, and assistance to ranchers, farmers, agricultural workers and their families focused on promoting independence for those with disability resulting from injury, illness, aging, or other causes.

Authorized by the 1990 Farm Bill, the U.S. Department of Agriculture initiated funding for state-level programs to provide help on accommodating disability in agriculture. Twenty-two states are operating through this funding and make up the national effort known as the National AgrAbility Project.

As one of those states, Wyoming has created a partnership of the University of Wyoming through UW Extension, Wyoming Institute for Disabilities, and non-profit disability service providers Wyoming Independent Living Rehabilitation and Wyoming Services for Independent Living. This partnership offers comprehensive assistance to individuals and their families. Building on the strength of nationwide informational resources, along with a statewide network of agricultural, rural health, safety, and social agencies, Wyoming AgrAbility offers individual services for increasing self-sufficiency and independence.

For more information about Wyoming AgrAbility or to request an on-site ranch or farm assessment,

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