Operating Rotothillers and Walk-Behind Tractors

Can youth do this job safely?

Youth must be able to do/have all of the following to perform this job:

- Avoid loose clothing, clothes with strings, tie up long hair
- Strong enough to safely operate equipment for duration of task
- Youth is physically large enough to safely operate the unit
- Attention span long enough to complete work
- Recognize a hazard, problem solve, and respond appropriately
- React quickly to hazards
- Mature enough to consistently do what is expected
- Good peripheral vision
- Bend and lift safely, using proper techniques
- Limit weight carried to less than 25% of youth's body weight
- Can understand and consistently repeat a 10-step process
- Clears area of all debris and rocks before starting, see Picking Rock guideline
- Connect/disconnect an implement
- Safely demonstrate the job 4 to 5 times
- Maintain two-way communication link
- Change clothes and wash hands when job is done



Adult Responsibilities

- Comply with the working outdoors guideline
- Ensure no underground utility lines if digging into soil
- Ensure equipment is mechanically sound with all safety features in place
- Provide safe transport to worksite
- Ensure appropriate training
- Demonstrate how to safely operate equipment
- Monitor youth for fatigue while operating equipment
- Ensure work area is free from as many hazards as possible
- Educate youth on avoiding/addressing remaining hazards
- Train youth to call an adult if equipment malfunctions

Supervision

Note: Youth should begin with smaller rototillers (e.g. Mantis) and progress to larger rototillers and walk-behind tractors as age/abilities allow)

12-13	Constant supervision progressing to intermittent
14-15	Intermittent supervision
16+	Intermittent supervision progressing to periodic

Hazards



Entanglement | Sharp objects | Repetitive motion | Thermal burns from hot components | Slippery/ uneven surface

Protective Strategies



Gloves | Steel-toed non-skid shoes | Eye protection | Hearing protection (as needed) | Operator's manual

cultivate SAFETY

www.cultivatesafety.org

https://doi.org/10.21636/nfmc.nccrahs.youthwork.rototillers.g.2018