

**ASAE S414.2 MAR2009 (R2018)**  
**Terminology and Definitions for Agricultural Tillage Implements**



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# Terminology and Definitions for Agricultural Tillage Implements

*Developed by the ASAE Cultural Practices Equipment Committee in cooperation with the Tillage Equipment Council of the Farm and Industrial Equipment Institute; approved by the Power and Machinery Division Standards Committee; adopted by ASAE March 1982; reaffirmed December 1986; revised December 1990; reaffirmed December 1995, December 1996, December 1997, December 1998, February 2004; revised March 2009; reaffirmed December 2013, November 2018.*

**Keywords:** Definition, Equipment, Frames, Hitches, Implements, Shanks, Terminology, Tillage

## 1 Purpose and Scope

**1.1** The purpose of this Standard is to provide uniform terminology and definitions for tillage implements designed primarily for use in the production of food and fiber. It does not include implements designed primarily for earth movement and transport.

**1.2** Dimensions, spacings, depths of operations, widths or velocities may be used as a part of the implement specifications. These should not be considered as performance specifications for any type of design or publication.

**1.3** This Standard is intended to be consistent with terminology in other ASABE Standards including ASABE Standard EP291 Terminology and Definitions for Soil Tillage and Soil-Tool Relationships, and ASABE Standard S477, Terminology for Soil-Engaging Components for Conservation-Tillage Planters, Drills and Seeders.

## 2 Tillage Implement Categories

**2.1 Primary tillage.** Primary tillage implements displace and shatter soil to reduce soil strength and to bury or mix plant materials, pesticides, and fertilizers in the tillage layer. Primary tillage is more aggressive, deeper, and leaves a rougher soil surface relative to secondary tillage.

### 2.1.1 Examples of primary tillage implements

Plows

- Moldboard
- Chisel
- Combination chisel with cutting blades
- Wide-curve,
- Disk
- Rever

Moldboard listers

Disk bedders

Subsoilers