Safe machinery
safe work in agriculture, forestry and horticulture

ETUI Seminar
Improving Machinery Safety
Overview about accidents with agricultural machinery

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The versatility of machinery
SVLFG, Germany, 2017

- **Member companies**: 1,493,313
- **Supervisor**: 326
- **Farm visits**: 130,494

**Accidents**
- **143,972**
- **Fatal Accidents**: 119
- **Accident investigation**: 4,358
- **Pensions for accidents**: 1,584
accidents with agricultural machinery, Germany, 2017

Agricultural accidents with machinery 2017

- Tractor
- Car
- Trailer
- Chainsaw
- Truck
- Bike
- hedge clippers
- wheel loaders
- Frontloader
- Forklift
- Silage loading, mixing and/or chopping machines
- Agricultural machinery – circular saw
- Combine
- Motorbike
- Excavator
- small Loader
- Hydraulic hose
- Wheelbarrow
- Brush cutter, brushcutter
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- Car
- Tractor

2017 accidents with agricultural machinery, Germany, 2017
Fatal accidents with machinery, Germany, 2017

Fatal agricultural accidents with machinery 2017

- Tractor: 18
- Bike: 6
- Chainsaw: 2
- Truck: 2
- Frontloader: 2
- Combine: 1
- Wood splitter: 1
- Circular saw: 1
- Forestry cable winch: 1
- Pic up trailer: 1
- Mower: 1

Fatal agricultural accidents with machinery, Germany, 2017: 26
Accident 1 – UG Frontloader 10-2017

• The accident injured was helper while putting up a fence. For this purpose, metal posts were pressed into the ground by a tractor (Deutz Fahr, Front loader Fa. Stoll Bj. 2015 and bucket).

• The first time a post was pushed in, the shovel detached itself from the frontloader and hit the helper sideways, who had held the fence post.

• Injury outcome: serial rib fracture, fatal injury
Accident 1 – UG Frontloader 10-2017
Accident 2 – Frontloader 03-2018

• The accident injured was a helper when setting up a fence. It was planned to use the tractor (Fendt Vario 820 year 2012, front loader 5X85 cargo and silo bucket) to push wood piles into the ground.

• When the first pile was pushed in, the silo bucket broke loose and hit the helper sideways, who had held the fence post.

• Injury episode: fatal injury
Accident 2 – Frontloader 03-2018
Additional requirements
Protection against hazardous substances

• Standard EN 15695 was published in 2009
• Marked request is needed
• Marked availability of selfpropelled sprayers is positive but not mandatory in the EN ISO Standard
standardisation process

Improve relevant Standards

EN 12525:2011-02
Agricultural machinery - Front loaders - Safety

prEN ISO 4254-6:2018
Agricultural machinery - sprayers - Safety
Thank you