Overview: Manure Management Equipment for Small Farms

eXtension and LPELC
April 2018

Appropriate Small Farm Equipment

• Presentation emphasis:
  – solid manure handling
  – small acreage land application
  – light duty compost production equipment
• Examples are based on media review and personal field experiences.
• Examples do not imply endorsement!

Now what? The need for POWER!
Considerations

- Size, Power, and Versatility
  - Power Take Off (PTO)
  - attachment types, points, and hitches
  - accessories
  - multiple tasks
  - operator safety and ease of operation

Compact Tractors

- JD 3038E
- 37HP
- PTO
- ~$20,000 New

Compact Tractors

- Kubota B Series
  - loader
  - back-hoe
  - front blade
  - others
  - 18-32HP

$18,000 - $22,000 New
Skid Steer Loaders

- Multiple lifting and tilling accessories
- Safe

1990s under $10,000; Newer $15,000 to $30,000

Pickups and Dump Trucks

ATVs and Hybrids

~ $2,000 - $8,000+ Used and New

http://articles.extension.org/pages/21819/chronological-webcast-archive
Utility and Dump Trailers

Small Spreaders

- Power Take Off

Small Spreaders

- Power Take Off
- Compact end of spectrum: 40+ cubic ft. models

Some are under $5000 new.
**Small Spreaders**

- Ground Drive
- 20 – 40 cubic ft. models

$2,600 – $3,800 new

**Small Spreaders**

- Ground Drive – Hobby Scale

$900 – $1200 new

**Chain Harrow**

The archived presentation is available at: http://articles.extension.org/pages/21819/chronological-webcast-archive
Compost Turning

- Towable
- Contained power or PTO

Compost Turning

- Skid Steer Attachment

Compost Turning

- Skid Steer Attachment

Leased to purchase for $18,000 Used

Sold for $3,400 Used

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Compost Turning

- Small Loader

Compost Turning

- Manure spreader to start windrows
- Push up and turn with loader

Homemade Compost Screen
**Small Manure Vacuums**
- Solid to slurry
- 105 & 210 gallon models

$3000-$4000 New

**What about Liquid and Slurry?**
- Small tankers 900-1200 gal (Europe)
- Large bore movable irrigation

**Alternatives to purchase**
- Lease
- Shared Ownership
- Borrow and Rent
- Custom Haulers

The archived presentation is available at:
http://articles.extension.org/pages/21819/chronological-webcast-archive
Livestock and Poultry Environmental Learning Center Webinar Series

April 20, 2018

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**Subaru Manure Hauler**
Prominent in Boulder, Bozeman and Burlington!

- 1/2 cubic yard of compost
- Pre 2008 Outback

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**Very Small Farm Manure Equipment**

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Thank you!