

**ITASCA COUNTY
BOARD OF COMMISSIONERS**

Itasca County Courthouse
123 NE 4th Street
Grand Rapids, MN 55744
(218) 327-2847

Tuesday, July 18, 2023

2:00 PM

Itasca County Boardroom

FINAL

SPECIAL SESSION MINUTES

I. CALL TO ORDER

Chair Ives called the meeting to order at 2:00 PM.

Attendee Name	Title	Status	Arrived
Cory Smith	District #1	Present	2:00 PM
Terry Snyder	District #2	Absent	
John Johnson	District #3	Present	2:00 PM
Burl Ives	District #4	Present	2:00 PM
Casey Venema	District #5	Present	2:00 PM

II. REGULAR AGENDA

1. Equipment Replacement Schedule Review

Highway Maintenance Director Kory Johnson and Purchasing/Equipment Maintenance Supervisor Charlie Castle provided information on the equipment replacement schedule developed by the Transportation Department.

RESULT: RECOMMENDED FOR REGULAR NEXT: 08/01/2023 2:30 PM

III. ADJOURN

Chair Ives adjourned the meeting at 2:26 PM.

ATTEST

Burl Ives
Chair of the County Board

Brett Skyles
Clerk of the County Board



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BOARD OF COMMISSIONERS**

Itasca County Courthouse
123 NE 4th Street
Grand Rapids, MN 55744

Tuesday, July 18, 2023

REQUEST FOR BOARD ACTION: RBA-2023-3190

DEPARTMENT: Transportation

TIME REQUESTED: 30 Minutes

PRESENTER: Kory Johnson, Charlie Castle

AGENDA ITEM:

Equipment Replacement Schedule Review

BOARD ACTION REQUESTED:

Informational

BACKGROUND:

Review and comment on the equipment replacement schedule developed by the transportation department.

COUNTY ATTORNEY REVIEW: No

SUPPORTING DOCUMENTATION:

1. Equipment Replacement Schedule R&B
2. Equipment Replacement Schedule

07/18/2023 Special Session

RESULT:	RECOMMENDED FOR DISCUSSION/INFO	NEXT: 08/01/2023 2:30 PM
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Equipment Replacement Schedule Road & Bridge

Description	Reason for Replacement	Number in Fleet	Average Hours / Miles	Recommended Hours @ Replacement	Recommended Years @ Replacement	Purchase Schedule
Graders	Maintenance Costs	17	767	11,000 HR	14	1/Year + 1 Additional Every 5th Year
Tandem Axle Dump/Plow Truck	Rust	36	321	N/A	18	2/Year
Tandem Axle Dump/Towing Truck	Rust	3	160	N/A	N/A*	None
Low Boy Truck	Rust	1	534	N/A	18	1 Every 18 Years
1 Ton Pickup/Haul Truck	Age and Shape	5	10,000	200,000 Miles	20	1 Every 4 Years
Mechanic Trucks	Age and Shape	6	10,000	200,000 Miles	20	1 Every 3.5 Years
Sign Truck	Age and Shape	1	13,800	200,000 Miles	15	1 Every 15 Years
Loaders	Normal Wear	10	237	7,000 HR	30	1 Every 3 Years
Backhoe	Maintanance cost	2	323	Do Not Replace	Do Not Replace	Do Not Replace
Excavators	Normal Wear	5	323	9700 HR	30	1 Every 6 Years
Mowing Tractors	Normal Wear	11	243	4900 HR	20	1 Every 2 Years
Skid-Steers	Max Resale Value (only replace tracks/ undercarrage once)	12	342	2400 HR	7	1/Year + 1 Additional Every 2nd Year
Dozers	Maintenance Costs (Only replace tracks/ undercarrage once)	4	140	5000 HR	33	1 Every 8 Years
Equipment Trailers	Normal Wear/Rust	43	N/A	N/A	20	2/Year
Sweeper Truck	Age and Shape	1	176	4400 HR	25	1 Every 25 Years



Equipment Replacement Schedule

Itasca County

Transportation Department

July 18, 2023

Purpose of an Equipment Replacement Schedule



01. Fleet Management

Itasca County has a large fleet of equipment in the Road & Bridge division of the Transportation Department and a plan was needed to manage the fleet effectively and efficiently.

02. Scope

The replacement schedule provides the ability to manage the whole fleet by unit type rather than evaluating each individual unit on its need for replacement.

03. Budgeting

The equipment replacement plan was used to develop a 10-year equipment purchasing budget plan for County Commissioners to use for budget planning.

04. Communication

The plan provides details that all parties can read and understand. Managers can make informed decisions even if they are not the daily manager of the fleet.

05. Goal

Itasca County has brand new equipment and very old equipment. The goal of the plan is to evenly step-down equipment to the end of its useful life and not have a major need of equipment replacement in any single budget year.

Useful Life Criteria

01. Hours/Miles

Based on increasing repair costs, and number of repairs required to keep a vehicle functioning. It also takes into account down time that effects the departments operations.

02. Years

Based on frame parts rusting out, major repairs to pass DOT inspections, or inability to buy replacement parts.

03. Re-Sale

Based on minimizing major repairs/replacements and maximizing re-sale value.

04. Do Not Replace

This equipment currently owned by Itasca County does not get enough hours per year to justify replacement with new equipment purchases and will not be replaced. This equipment type may be obsolete, or its functionality has been replaced with different equipment, or can be rented for specific projects.

Wheel Loader

Uses: Load Salt, Gravel, and other Materials

Reason for Replacement: Normal Wear

in Fleet: 10

Recommended Hours/Miles @ Replacement: 7,000 Hrs

Recommended Years @ Replacement: 30

Purchase Schedule: 1 Every 3 Years

Current Units Past Replacement Schedule: 756, 890



Skid-Steer

Uses: Culverts, Mowing, Brushing, Tree Removal, Gravel, Load Materials

Reason for Replacement: Max Resale Value (only replace tracks/ undercarriage once)

in Fleet: 12

Recommended Hours/Miles @ Replacement: 2,400 Hrs

Recommended Years @ Replacement: 7

Purchase Schedule: 1/Year + 1 Additional Every 2nd Year

Current Units Past Replacement Schedule: 1119, 1120, 1121



Mowing Tractor

Uses: Mowing

Reason for Replacement: Normal Wear

in Fleet: 11 (+3 Unsold)

Recommended Hours/Miles @ Replacement: 4,900 Hrs

Recommended Years @ Replacement: 20

Purchase Schedule: 1 Every 2 Years

Current Units Past Replacement Schedule: 950, 951, 992, 1025



Mechanic Trucks

Uses: Repair Equipment in Field

Reason for Replacement: Age & Shape

in Fleet: 6

Recommended Hours/Miles @ Replacement: 200,000 Miles

Recommended Years @ Replacement: 20

Purchase Schedule: 1 Every 3 Years

Current Units Past Replacement Schedule: 1002, 1003, 2020, 1021



Grader

Uses: Plowing, Grading

Reason for Replacement: Maintenance Costs

in Fleet: 17

Recommended Hours/Miles @ Replacement: 11,000 Hrs

Recommended Years @ Replacement: 14

Purchase Schedule: 1/Year + 1 Additional Every 5th Year

Current Units Past Replacement Schedule: 1096, 1097



Tandem Plow Truck

Uses: Plowing, Hauling Materials

Reason for Replacement: Rust

in Fleet: 36

Recommended Hours/Miles @ Replacement: N/A

Recommended Years @ Replacement: 18

Purchase Schedule: 2/Year

Current Units Past Replacement Schedule: 1027, 1029



Equipment Trailers

Uses: Hauling Equipment, Hauling Materials

Reason for Replacement: Normal Wear / Rust

in Fleet: 43

Recommended Hours/Miles @ Replacement: N/A

Recommended Years @ Replacement: 20

Purchase Schedule: 2/Year

Current Units Past Replacement Schedule: TBD



Equipment Attachments

Uses: Mowing, Brushing, Snow Removal

Reason for Replacement: Age & Shape

in Fleet: TBD

Recommended Hours/Miles @ Replacement: N/A

Recommended Years @ Replacement: N/A

Purchase Schedule: 1 Every 3 Years

Current Units Past Replacement Schedule: TBD



Sign Truck

Uses: Sign Installation

Reason for Replacement: Age & Shape

in Fleet: 1

Recommended Hours/Miles @ Replacement: 200,000 Miles

Recommended Years @ Replacement: 15

Purchase Schedule: 1 Every 15 Years

Current Units Past Replacement Schedule: 1061



Excavator

Uses: Culverts, Ditching, Stumping, Brushing, Tree Removal

Reason for Replacement: Normal Wear

in Fleet: 5

Recommended Hours/Miles @ Replacement: 9,700 Hrs

Recommended Years @ Replacement: 30

Purchase Schedule: 1 Every 6 Years

Current Units Past Replacement Schedule: None



Sweeper Truck

Uses: Clean Roads, Prevent Storm Sewer Backup

Reason for Replacement: Age & Shape

in Fleet: 1

Recommended Hours/Miles @ Replacement: 4,400 Hrs

Recommended Years @ Replacement: 25

Purchase Schedule: 1 Every 25 Years

Current Units Past Replacement Schedule: None



Dozer

Uses: Culverts, Ditching, Stumping

Reason for Replacement: Maintenance Costs (Only replace tracks/ undercarrage once)

in Fleet: 4

Recommended Hours/Miles @ Replacement: 9,700 Hrs

Recommended Years @ Replacement: 30

Purchase Schedule: 1 Every 6 Years

Current Units Past Replacement Schedule: None



Backhoe

Uses: Culverts, Ditching

Reason for Replacement: Maintenance Costs

in Fleet: 1 (+1 Unsold)

Recommended Hours/Miles @ Replacement: Do Not Replace

Recommended Years @ Replacement: Do Not Replace

Purchase Schedule: Rent Mini Excavator

Current Units Past Replacement Schedule: Do Not Replace



Lowboy Truck

Uses: Hauling Equipment, Hauling Materials

Reason for Replacement: Rust

in Fleet: 1

Recommended Hours/Miles @ Replacement: N/A

Recommended Years @ Replacement: 18

Purchase Schedule: 1 Every 18 Years

Current Units Past Replacement Schedule: None



Tandem Axle/ Dump Truck (Towing)

Uses: Hauling Equipment, Hauling Gravel

Reason for Replacement: Rust

in Fleet: 3

Recommended Hours/Miles @ Replacement: N/A

Recommended Years @ Replacement: N/A

Purchase Schedule: Replace as Needed, Roll Down Plow Truck/Low Boy Trucks

Current Units Past Replacement Schedule: N/A



Roller Packer

Uses: Compaction for Backfill, Pavement Patches

Reason for Replacement: Normal Wear

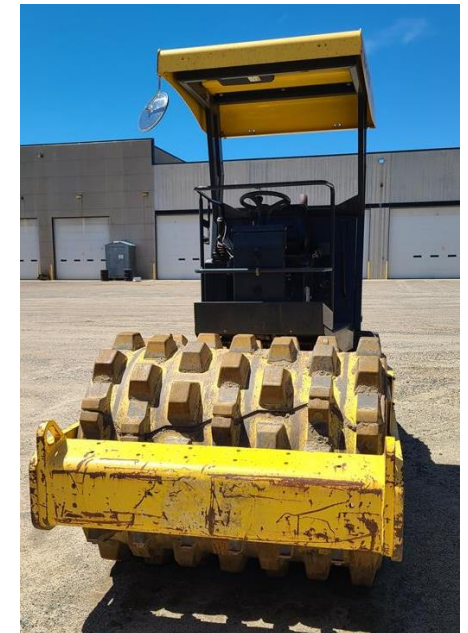
in Fleet: 2

Recommended Hours/Miles @ Replacement: 7,000 Hrs

Recommended Years @ Replacement: 24

Purchase Schedule: 1 Every 12 Years

Current Units Past Replacement Schedule: None





Thank you

Kory Johnson, Highway Maintenance Director

Charlie Castle, Purchasing/ Equipment Maintenance Supervisor