

# NJDOT Replacement Analysis

JIM SCHMIDT

BUREAU OF EQUIPMENT ENGINEERING & OPERATIONS



## Background

- ▶ 3922 Licensed Equipment
- ▶ 5114 Unlicensed Equipment
- ▶ 2771 Snow Plows
- ▶ 6376 Two Way Radios
- ▶ 6316 Shop Equipment
- Fleet Tracking in AssetWorks M4
- ▶ 10 Million Dollar Annual Budget



## Age of Fleet

- Licensed Equipment 32% In Cycle 68% Past Replacement Cycle.
- Unlicensed Equipment 30% In Cycle 70% Past Replacement Cycle.
- Snow Plows 75% In Cycle 25% Past Replacement Cycle.
- Two Way Radios 100% in Cycle 0% Past Replacement Cycle.
- Shop Equipment Replace as Needed.



## Replacement Considerations

- Age of Vehicle.
- Mileage or Hours.
- Condition.
- Usage.
- ▶ LTD Repair Cost.
- Lead Time.
- Future Trends, Needs and Plans.
- Priorities.
- Budgetary Constraints.



## Replacement Analysis Steps

#### 1. Run a 5 year Replacement Analysis Report

RECIDISCRIPTION   ALI   ALI   VIENE   MAKE	EQUIPMENT REPLACEMENT SCHEDULE FY2013 6/17/2013																	
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## Replacement Analysis Steps

#### 2. Compile the Results

UTIL./AER. BAS.	1.5 T Need	d to list 1 n	nore trade	Order # 13	BDCN0129								
UNIT NOMAKE	MODEL	YEAR DESC	RIPTION	METER		DEPT NO	COS	T	NORTH	CENTRAL	SOUTH	HDQRTS	TOTAL
TD05912 CHEVY	3500HD	1993 UTIL.	/AER. BAS. 1.5 T.		127,173.00	TCMA2000	\$ 9	1,109.00	11	16	11	1	
TD05937 CHEVY	3500HD	1993 UTIL.	/AER. BAS. 1.5 T.		188,377.00	TEQA421402	\$ 9	1,109.00					
TD08299 GMC	3500HD	1995 UTIL.	/AER. BAS. 1.5 T.		188,922.00	TEQA435010	\$ 9	1,109.00					
TD10189 FORD	F568	2003 UTIL.	/AER. BAS. 1.5 T.		125,988.00	TMEA2860	\$ 9	1,109.00					
TD04153 FORD	F467	1999 UTIL.	/AER. BAS. 1.5 T.		129,938.00	TMEA2860	\$ 9	1,109.00					
TD10203 FORD	F568	2003 UTIL.	/AER. BAS. 1.5 T.		154,261.00	TMEA2860	\$ 9	1,109.00					
TD04106 FORD	F467	1999 UTIL.	/AER. BAS. 1.5 T.		152,570.00	TMEA2870	\$ 9	1,109.00					
TD10202 FORD	F568		/AER. BAS. 1.5 T.		182,473.00			1,109.00					
TD04101 FORD	F467		/AER. BAS. 1.5 T.		224,444.00	TMEA2870	\$ 9	1,109.00					
TD10496 FORD	F568		/AER. BAS. 1.5 T.		149,202.00			1,109.00					
TD10608 FORD	F566		/AER. BAS. 1.5 T.		180,890.00			1,109.00					
TD10200 FORD	F568		/AER. BAS. 1.5 T.		124,368.00			1,109.00					
TD04266 FORD	F467		/AER. BAS. 1.5 T.		150,877.00			1,109.00					
TD10204 FORD	F568		/AER. BAS. 1.5 T.		164,446.00			1,109.00					
TD10188 FORD	F568		/AER. BAS. 1.5 T.		165,328.00			1,109.00					
TD10199 FORD	F568		/AER. BAS. 1.5 T.		172,270.00			1,109.00					
TD10497 FORD	F568		/AER. BAS. 1.5 T.		179,915.00			1,109.00					
TD10197 FORD	F568		/AER. BAS. 1.5 T.		180,520.00			1,109.00					
TD10186 FORD	F568		/AER. BAS. 1.5 T.		184,294.00			1,109.00					
TD04251 FORD	F467		/AER. BAS. 1.5 T.		216,114.00			1,109.00					
TD10206 FORD	F568		/AER. BAS. 1.5 T.		126,571.00			1,109.00					
TD10196 FORD	F568		/AER. BAS. 1.5 T.		128,335.00			1,109.00					
TD10205 FORD	F568		/AER. BAS. 1.5 T.		133,644.00			1,109.00					
TD10600 FORD	F566		/AER. BAS. 1.5 T.		152,276.00			1,109.00					
TD04261 FORD	F467		/AER. BAS. 1.5 T.		157,873.00			1,109.00					
TD10190 FORD	F568		/AER. BAS. 1.5 T.		171,349.00			1,109.00					
TD10192 FORD	F568		/AER. BAS. 1.5 T.		174,112.00			1,109.00					
TD04248 FORD	F467		/AER. BAS. 1.5 T.		230,633.00			1,109.00					
TD10609 FORD	F566		/AER. BAS. 1.5 T.		126,300.00			1,109.00					
TD10602 FORD	F566		/AER. BAS. 1.5 T.		133,187.00			1,109.00					
TD10184 FORD	F568		/AER. BAS. 1.5 T.		168,137.00			1,109.00					
TD10604 FORD	F566		/AER. BAS. 1.5 T.		135,158.00			1,109.00					
TD10501 FORD	F568		/AER. BAS. 1.5 T.		138,195.00			1,109.00					
TD10495 FORD	F568		/AER. BAS. 1.5 T.		139,056.00			1,109.00					
TD10193 FORD	F568		/AER. BAS. 1.5 T.		154,612.00			1,109.00					
TD10187 FORD	F568		/AER. BAS. 1.5 T.		155,003.00			1,109.00					<b></b>
TD04103 FORD	F467		/AER. BAS. 1.5 T.		239,697.00			1,109.00					<b></b>
TD04142 FORD	F467		/AER. BAS. 1.5 T.	1	241,287.00			1,109.00					<b></b>
TD10599 FORD	F566	2005 UTIL.	/AER. BAS. 1.5 T.		96,406.00	TEQA435010	\$ 9	1,109.00					
39									\$ 1,002,199.00	\$ 1,457,744.00	\$ 1,002,199.00	\$ 91,109.00	\$ 3,553,251.0



## Replacement Final Steps

- 1. Assemble Meeting With Equipment Committee.
- 2. Make Tough Decisions and Prioritize.
- 3. Flag Vehicles in The Fleet System.
- 4. Assign Projects the Engineering Staff.
- 5. Work With OMB.
- 6. Work With Purchase and Property.
- 7. Keep Everyone Informed of The Progress.



### Thank You

Any Questions?

