

WARWICK **VALLEY**
CENTRAL SCHOOL DISTRICT

Transportation Department

2024-2025 Fleet Report
March 7, 2024



Current Fleet Size

Type of Bus	# of Buses	# of Spare Buses
65 Passenger	46	8
60 Passenger	4	1
20-30 Passenger	7	1
Wheelchair Bus	4	2
9 Passenger Suburban	0	3
TOTAL	61	15

TYPES OF FUEL USED

- Diesel: 28 buses (37%)
- Gasoline: 26 buses (34%)
- Propane: 22 buses (29%)





Fleet Age

Fleet Years	Count	Percentage
15 years or older	15	20%
11-14 years old	11	14%
1-10 years old	50	66%

- 34% of our fleet is over 10 years old.
- Generally a bus between 10-12 years old will begin to experience engine difficulties and present body rust.





Fleet Mileage

Mileage	Count	Percent
Over 150,000	21	28%
100,000 – 149,999	13	17%
50,001 - 99,999	17	22%
Under 50,000	25	33%
Total	76	100%

- 28% of our fleet has over 150,000 miles
- 45% of our fleet has over 100,000 miles





Fleet Maintenance

Vehicle Age	Average Miles/Year	Avg. Cost Per Mile	Total Yearly Cost
10 years or over	12,000	\$3.19	\$38,280
Under 10 years	12,000	\$2.72	\$32,640
Difference		.47 cents	\$5,640
Total Cost	# of Buses	Avg. Yearly Cost	Total Costs
10 years or older	26	\$38,280	\$995,280.00
Under 10 Years	50	\$32,640	\$1,632,000.00
	76		\$2,627,280.00





Bus Routes

Bus type	2023-2024
	# of Routes
65/60 passenger	46
20-30 passenger	8
15/21 WC Bus	3
Total bus routes	58

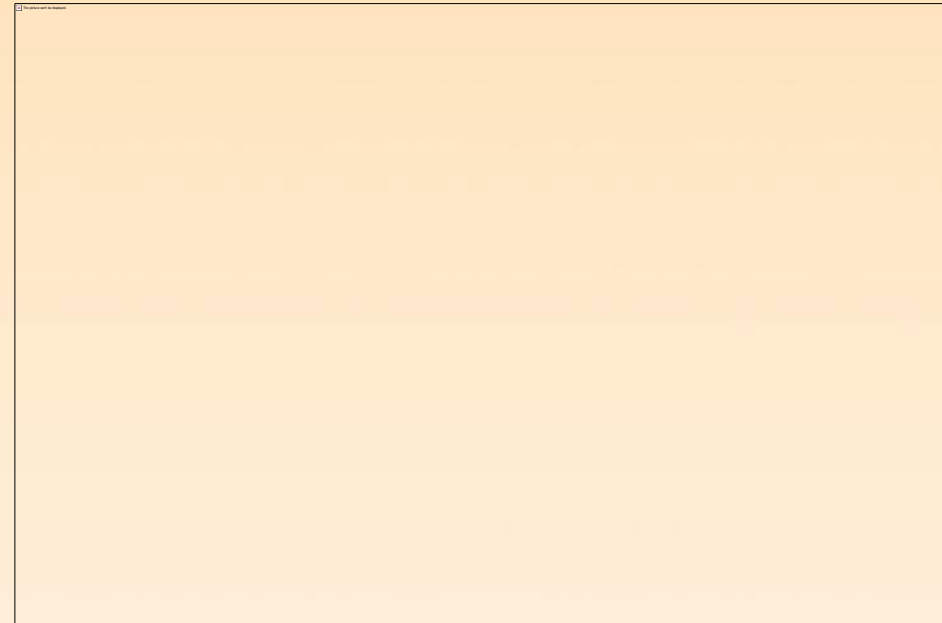
- 62 assigned bus drivers
- 4 substitute bus drivers
- 19 assigned bus monitors
- 0 substitute bus monitor





Spare Buses

Vehicle Type	Number of Spare Buses
65 passenger	8
20-30 passenger	1
15/21 passenger WC bus	2
9 passenger Suburban	3
TOTAL	14



- Spare buses are utilized daily when a bus is being serviced/repaired, DOT inspected, recalled or used for athletic or curriculum trips.



Why purchase buses yearly?



The safety of the students is our first priority. An aging bus is at a higher risk of engine failure and breakdown.



We currently have a fleet of 76 buses. Buses that are 13-15 yrs. old, and have high mileage, need to be replaced to ensure safe and reliable transportation. At present, we are utilizing buses that are 18 years old.





Bus Replacement Criteria

Three factors that determine bus replacement:

Age

Starting at 10 yrs. old, a bus may start to encounter engine failure.

Older buses become expensive to repair, and become cost ineffective to fix.

Mileage

A bus with high mileage (125K plus) will start to suffer internal engine wear, (e.g., transmission, head gasket, pistons and bearings).

Condition

An older bus may start to experience overall chassis rust. That would include body panel, roof sheets and frame bolts. Chassis rust compromises the entire integrity and safety of the vehicle. A bus with excessive amount of rust will not pass DOT inspection.





Bus Fleet downtime and potential repair costs

A bus at 125-200 thousand miles may encounter:

- Fuel tank and protective cage rust/rot: cost to replace is \$2,000, time in garage is 1-2 days.
- EGR Cooler (exhaust gas recirculation) may fail causing other parts to collapse. The cost to replace is \$3,000, time in garage is 3-4 days.
- Turbo Charger (booster that gives power to vehicle) may fail: cost to replace is \$3,500-\$5,000, time in garage is 1-2 weeks.
- Fuel Injector failure: cost to replace is \$5,000-\$6,000, time in garage is 3-4 days.
- Transmission failure: cost to replace is \$8,000, time in garage is 2-3 weeks, and may need to send elsewhere.
- If an entire engine needs to be replaced, the cost can reach \$40,000, and will need to be towed elsewhere to fix at a cost of \$500-\$1,000. Time in the garage up to 6 months.
- If a problem occurs with the computer system, the bus will need to go back to the dealership to be fixed and reprogrammed. Time in the garage up to 2 months.



45% of our fleet has over 100,000 miles; 28% has over 150,000 miles.



The cost of bus parts has also increased significantly, and we have to wait much longer to receive them.



Buses Being Replaced

Bus Number	Capacity	Year	Mileage
294	65 passengers	2007	190,471
331	35 passengers	2013	134,865

- These buses all have universal frame rust on body panels, floor boards and stepwell.
- All have roof and engine leakage.





Proposed Bus Purchases (2024-25)

Count	Type of Bus	Cost per bus	Total
2	65 Passenger Blue Bird Propane Powered Buses	\$175,097.14	\$351,958.28
2	65 Passenger International Diesel Powered Buses	\$176,565.49	\$353,130.98
1	7 Passenger Chevrolet Tahoe	\$70,000.00	\$ 70,000.00
	TOTAL		\$775,089.26





Transportation Bus Financing

		Financing
Total Cost of Vehicles	5 vehicles	\$780,000.00
Transportation Aid	64.9%	\$506,220.00
Net Cost (Financed)		\$273,780.00
Bus Reserve		\$280,000.00
Additional Cost to Taxpayers		\$0



- Standard manufacturer's warranty is 5 years or 100,000 miles.
- Extended engine warranties are available at a cost of \$3,000-\$5,000 per bus. These warranties cover 10 year or 100,000 miles.



Fleet Fun Facts

Courtesy of Samsara GPS fleet tracking



In 2023, our fleet traveled more than 790,412 miles.
That is equivalent to 31 times around the globe!



Our fleet spent a total of 34,826 hours on the road.



The average distance traveled per vehicle was 7,457 miles.



The longest trip traveled by a single bus was 216 miles.

Our fleet's overall
safety rating is
100!!

