



# WARWICK VALLEY

CENTRAL SCHOOL DISTRICT

## Transportation Department

**Fleet Report  
2021-2022**

**Presentation 4  
March 4, 2021**





# Current Fleet Size

Type of Bus	# of Buses	# of Spare Buses
65 Passenger	53	10
60 Passenger	5	0
20-30 Passenger	8	1
35 Passenger	1	0
Wheelchair Bus	5	1
9 Passenger Suburban	3	2
<b>TOTAL</b>	<b>75</b>	<b>14</b>

## TYPES OF FUEL USED

- ✓ Diesel- 40 buses
- ✓ Gasoline- 19 buses
- ✓ Propane- 16 buses



# Fleet Age

<b>Fleet Years</b>	<b>Count</b>	<b>Percentage</b>
<b>15 years or older</b>	<b>9</b>	<b>11%</b>
<b>11 -14 years old</b>	<b>20</b>	<b>28%</b>
<b>1-10 years old</b>	<b>46</b>	<b>61%</b>

- ✓ 38% 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	20	28%
100,000 - 149,999	14	19%
50,001 - 99,999	14	19%
Under 50,000	27	34%
	75	100%

- ✓ 28% of our fleet has over 150,000 miles
- ✓ 72% of our fleet has over 100,000 miles



# Fleet Maintenance

<b>Vehicle Age</b>	<b>Average Miles/Year</b>	<b>Avg. Cost Per Mile</b>	<b>Total Yearly Cost</b>
<b>10 years or over</b>	<b>11,000</b>	<b>\$2.35</b>	<b>\$25,850</b>
<b>Under 10 years</b>	<b>11,000</b>	<b>\$1.89</b>	<b>\$20,790</b>
<b>Difference</b>		<b>.46 cents</b>	<b>\$5,060</b>
<b>Total Cost</b>	<b># of Buses</b>	<b>Avg. Yearly Cost</b>	<b>Total Costs</b>
<b>10 years or older</b>	<b>30</b>	<b>\$25,850</b>	<b>\$775,500</b>
<b>Under 10 Years</b>	<b>45</b>	<b>\$20,790</b>	<b>\$935,550</b>
	<b>75</b>		<b>\$1,711.05</b>



# Bus Routes

	<b>2020-2021 (COVID-19)</b>	<b>2021-2022 (NON COVID)</b>
<b>Bus type</b>	<b># of Routes</b>	<b># of Routes</b>
<b>65/60 passenger</b>	<b>39</b>	<b>49</b>
<b>20-30 passenger</b>	<b>7</b>	<b>5</b>
<b>35 passenger</b>	<b>1</b>	<b>1</b>
<b>15/21 WC Bus</b>	<b>2</b>	<b>3</b>
<b>9 passenger</b>	<b>1</b>	<b>3</b>
<b>Total bus routes</b>	<b>50</b>	<b>61</b>

- ✓ 47 assigned bus drivers
- ✓ 10 substitute bus drivers
- ✓ 14 assigned bus monitors
- ✓ 2 substitute bus monitors



# Spare Buses

<b>Vehicle Type</b>		<b># of spares</b>
65 passenger		10
60 passenger		0
20-30 passenger		1
15/21 passenger WC bus		1
9 passenger Suburban		2
<b>TOTAL</b>		<b>14</b>

- ✓ Spare buses are utilized daily when a bus is being serviced/repaired, DOT inspected, 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 75 buses. Buses that are 13-15 yrs. old, and have high mileage, need to be replaced to ensure safe and reliable transportation.





# Bus Replacement Criteria

## Three factors that determine bus replacement:

### 1. Bus 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.

### 2. Mileage:

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

### 3. 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.



## **BUSES BEING REPLACED**

<b>BUS#</b>	<b>CAPACITY</b>	<b>YEAR</b>	<b>MILEAGE</b>
279	65 passenger	2005	187,309
280	65 passenger	2005	201,268
281	65 passenger	2005	197,849
283	65 passenger	2005	174,262
284	65 passenger	2005	208,790

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



2021-2022  
PROPOSED BUS PURCHASES



Count	Type of Bus	Cost per bus
2	65 Passenger Blue Bird Propane Powered Buses	\$123,186.43 X2=\$246,372.86
1	65 Passenger International Gasoline Powered Bus	\$115,804.89
1	21 Passenger Chevrolet Micro Bird Wheel Chair Bus	\$73,311.36
1	29 Passenger Chevrolet Micro Bird Bus	\$63,702.58
1	Bus Maintenance Service Vehicle	\$49,000.00
	<b>TOTAL</b>	<b>\$548,191.69</b>



## Transportation Costs

		<b>Financing</b>
<b>Total Cost of Vehicles</b>	<b>(6 vehicles)</b>	<b>\$548,191.69</b>
<b>Transportation Aid</b>	<b>60%</b>	<b>\$328,915.14</b>
<b>Net Cost</b>		<b>\$219,276.55</b>
<b>Bus Reserve</b>		<b>\$250,000.00</b>
<b>Cost to Taxpayers</b>		<b>\$0</b>

- ✓ Standard manufactures warranty is 5 year/100,000 miles.
- ✓ Extended engine warranties are available at a cost of between \$3,000-5,000 per bus. These warrantees cover 10year/100,00 miles.



# FUN FACTS

Courtesy of Samsara GPS fleet tracking.

- ✓ In 2020 our fleet has traveled over 409,747 miles...that's 16 times around the globe!
- ✓ Our fleet spent a total of 17,606 hours on the road.
- ✓ The average distance traveled per vehicle was 4,710 miles.
- ✓ The longest trip travel by a single bus was 193 miles.
- ✓ Our buses were most seen at Sanfordville Elementary School.
- ✓ Our fleets overall safety rating is 96!!