# City of Grand Ledge

# Sewer Rate Report

4/5/2018





Pre	pared	Bv.
	<b>94.04</b>	<b>~</b> 7 .

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Name	Title	Employeer	Email
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	GRAND LEDGE SEWER									
	GRAND LEDGE SEWER									
	CONCLUSION OF ANALYSIS									
COST PER	CURRENT RATES CALCULATED RATES DIFFERENCE									
1,000 GAL.	1,000 GAL. \$8.68 \$8.86 \$0.18									
	BASE RATE / REA	ADY TO SERVE CHARGE PER	MONTH							
PER CUSTOMER	PER CUSTOMER CURRENT RATES CALCULATED RATES DIFFERENCE									
RTS	\$7.97	\$8.14	\$0.17							

The above rates are based on an input budget of \$2,155,337
The above rates are based on invoicing the following gallons of water / sewer 206,512,801
The above rates are based on the following number of customers 3,230
The above rates are based on the following number of Residential Equivalent Units (REU's) 38,760

If all numbers listed above stay true the new calculated rates will generate the input budget "exactly". Not a penny more or a penny less.

This Rate Analysis uses "Full Cost Pricing" to determine the user fees.

The above table shows the Current Rate, the new Calculated Rate, and the difference between the current and new rate changes.

**Full Cost Pricing Is:** 

Maintaining your system's financial stability by ensuring a sufficient revenue stream.

Collect and reserve the funds needed to cover the costs of future asset rehabilitation and compliance with future regulations, among other things.

Plan ahead for reasonable, gradual rate increases when necessary.

Deliver a fair priced, high-quality drinking water to your customers now and in the future.

#### NOTE:

The above CALCULATED RATES will generate only enough to meet the current budge input into the rate analysis program. In order to charge a lesser amount, the budget must first be reduced.

#### MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

GRAND LEDGE SEWER	ANNUAL	BASE	COST PER	CONSUMPTION	COST / UN
	BUDGET	FIXED	3/4" METER	PORTION	OF WATE
LABOR & BENEFITS	\$577,586	\$69,310	\$1.79	\$508,276	\$2.46
OPERATION & MAINTENANCE EXPENSES	\$642,451	\$75,167	\$1.94	\$567,284	\$2.75
LOANS, BONDS, INTEREST, ANNUAL PAYMENT	\$439,203	\$87,841	\$2.27	\$351,362	\$1.70
ASSET REPLACEMENT AND REHABILIATION	\$203,500	\$36,147	\$0.93	\$167.353	\$0.81
	· ·				
CAPITAL IMPROVEMENT	\$292,597	\$48,571	\$1.25	\$244,026	\$1.18
TOTALS	\$2,155,337	\$317,036	\$8.18	\$1,838,301	\$8.90
		15%		85%	
ON OPERATING INCOME REDUCTION			0.04		0.04
CALCULATED RATE - FOR 3/4" MET	ER / REU PER	MONTH	\$ 8.14	1,000 GAL.	\$ 8.8
TOTAL ANNUAL <u>EQUIVALENT</u> REU'S	38,760	CURRENT RATES	\$7.97		\$8,68
TOTAL ANNUAL <u>EQUIVALENT</u> REU'S  ANTICIPATED WATER / SEWER SOLD		CURRENT RATES INCREASE OF	\$7.97 \$0.17		\$8.68 \$0.18
	206,512,801		******		
ANTICIPATED WATER / SEWER SOLD	206,512,801 23%	INCREASE OF	\$0.17 <u><b>2.1%</b></u>	RATES REVENUE OF	\$0.18
ANTICIPATED WATER / SEWER SOLD RESERVE PORTION OF BUDGET	206,512,801 23% 12	INCREASE OF	\$0.17 <u><b>2.1%</b></u>	RATES REVENUE OF	\$0.18 <b>2.1%</b>
ANTICIPATED WATER / SEWER SOLD RESERVE PORTION OF BUDGET INVOICES PER YEAR	206,512,801 23% 12	INCREASE OF	\$0.17 <u><b>2.1%</b></u>	RATES REVENUE OF	\$0.18 <b>2.1%</b>

### **INCOME GENERATED - BASED ON NEW RATES**

	GRAND LEDGE SEWER	ONEIDA TWP	\$0.00	REVENUE	
	New Cost per Unit of Water	Sold	NEW RATES		
PER 1,000 GAL.	\$8.86	\$8.86	\$8.86		
UNITS Sold	185,222	0	21,290	206,513	
Income	\$1,641,131.92	\$0.00	\$188,640.24	\$1,829,772	
METER SIZE	BASE RATE PER MONTH				
RTS	\$8.14	\$8.14	\$8.14		
INCOME	\$264,761.90	\$37,711.47	\$0.00	\$302,473	
1	\$8.14	\$8.14	\$8.14		
INCOME	\$3,419.43	\$1,563.17	\$0.00	\$4,983	
1.5	\$8.14	\$8.14	\$8.14		
INCOME	\$2,637.85	\$0.00	\$0.00	\$2,638	
2	\$8.14	\$8.14	\$8.14		
INCOME	\$4,103.32	\$195.40	\$0.00	\$4,299	
3	\$8.14	\$8.14	\$8.14		
INCOME	\$781.58	\$0.00	\$0.00	\$782	
4	\$8.14	\$8.14	\$8.14		
INCOME	\$293.09	\$0.00	\$0.00	\$293	
6	\$8.14	\$8.14	\$8.14		
INCOME	\$97.70	\$0.00	\$0.00	\$98	
		Т	otal Fixed Income	\$315,565	
		TOTAL Combined	Customer Income	\$2,145,337	
		N	on Sales Income	\$10,000	
			Total Income	\$2,155,337	
			Budget	\$2,155,337	
			Difference	\$0.00	

GRAND LEDGE S CURRENT RATE										
Customers Are Invoice	MONTHLY PER									
		RATE CLASS 1				R/	ATE CLASS 2			
- 1	GRAN	ID LEDGE SI	EWER			ON	IEIDA TWP	TE		
TYPE OF WATER UNITS	1,000 GALLONS		Y THE SAME RTS RATE SE - UNLIKE THE WATE	ER RATES	TYPE OF WATER UNITS	1,000 GALLONS	Ratio Entity # 2 vs. 1			
COST PER WATER UNIT	\$8.68				COST PER WATER	\$8.68	1.00			
INVOICES PER YEAR	12				INVOICES PER YEAR	12				
METER SIZE - INCHES	CURRENT "BASE RATE" CHARGE	NUMBER OF UNITS	INVOICE FREQUENCY	ANNUAL INCOME	METER SIZE - INCHES	CURRENT "BASE RATE" CHARGE	Ratio Entity # 2 vs. 1	NUMBER OF UNITS	INVOICE FREQUENCY	ANNUAL INCOM
"3/4	\$7.97	2710	12	\$259,184	"3/4	\$7.97	1.00	386	12	\$36,917
1	\$7.97	35	12	\$3,347	1	\$7.97		16	12	\$1,530
1.5	\$7.97	27	12	\$2,582	1.5	\$7.97			12	\$0
2	\$7.97	42	12	\$4,017	2	\$7.97		2	12	\$191
3	\$7.97	8	12	\$765	3	\$7.97			12	\$0
4	\$7.97	3	12	\$287	4	\$7.97			12	\$0
6	\$7.97	1	12	\$96	6	\$7.97			12	\$0
	TOTALS	2826		\$270,279				404		\$38,639

#### **Current Rate Charges**

Currently customers are charged based on two factors

Consumption Charge, Which is based on gallons of water that goes through the customer's water meter. Sewage usage is based on water usage. Customers are currently invoiced per unit of water / sewer at the listed price.

A "Base Rate" charge based of \$ XX for a 3/4" meter, this fee increases based on the size of the customers water meter, which is listed in inches; Some customers are invoiced monthly, others quarterly/

## MICHIGAN RURAL WATER ASSOCIATION RATE EVALUATION PROGRAM

	2018	PERCENT FUNDE	D BY RATES	100%
APITAL IMPROVEMENT PROJECTS				
CAPITAL IMPROVEMENT IDEAS WERE GEN	ERATED FROM			
ity has a 10 year street plan, Most of but not all of those p	rojects are listed he	ere.		
CAPITAL PROJECTS SEWER	ESTIMATED PROJECT COST	AMOUNT FUNDED BY RATES	COMPLETE IN YEAR	MONEY RESERVEI ANNUALLY
S Bridge STREET UPGRADE SEWER MAIN	\$149,800	\$149,800	2019	\$ 149,80
Green St. Reconstruction, Seminary to Jones	\$31,099	\$31,099	2019	\$ 31,09
Lab Renovation @ WWTP	\$35,000	\$35,000	2019	\$ 35,00
Lamson Street UPGRADE SEWER MAIN	\$113,120	\$113,120	2020	\$ 56,56
Liberty St - sewer improvements	\$69,243	<b>\$</b> 69, <b>24</b> 3	2020	\$ 34,62
Kent St upgrade sewer main	\$103,250	\$103,250	2020	\$ 51,62
Spring St to Walnut St. to Kent St.	\$107,980	\$107,980	2021	\$ 35,99
Cedar St. Reconstruction, S. Clinton to Old Post	\$54,950	\$54,950	2021	\$ 18,31
Green St. Reconstruction, Seminary to W. South	\$183,330	\$183,330	2022	\$ 45,83
FUTURE ANTICIPATED EXPANSION OF WWTP				
	\$ 847,772	\$ 847,772		\$ 458,84

1	CAPITAL IMPROVEMENT PROJECTS												
	RENT RESERVE BALANCE APPLIED TO CAPITAL IMPROVEMENTS.												
L	V												
		AVG	INTEREST RATE	IN SAVINGS	0.10%								
1	l												
	l												
ı	l		CIP EXPENDITU	0.004	RUNNING								
ı	YEAR	PURPOSE	RES	0.0%	BALANCE								
П	2018	SEE LIST	\$ -	\$ 310,597	\$310,908								
1		***************************************											
	2019		\$ 215,899	\$ 310,597	\$405,917								
l	2020		\$ 285,613	\$ 310,597	\$431,306								
L	2021		\$ 162,930	\$ 310,597	\$579,405								
l	2022		\$ 183,330	\$ 310,597	\$707,251								
	2023		\$ -	\$ 310,597	\$1,018,555								
l	2024		s -	\$ 310,597	\$1,330,171								
	2025		\$ -	\$ 310,597	\$1,642,098								
١	2026		s -	\$ 310,597	\$1,954,337								
	2027		\$ -	\$ 310,597	\$2,266,889								
	2028		\$ -	\$ 310,597	\$2,579,752								
ı	2029		S -	\$ 310,597	\$2,892,929								
П	2030		\$ -	\$ 310,597	\$3,206,419								
ı	2031		\$ -	\$ 310,597	\$3,520,223								
ı	2032		\$ \$	\$ 310,597	\$3,834,340								
L	2033			\$ 310,597	\$4,148,771								
ı	2034		s -	\$ 310,597	\$4,463,517								
ı	2035		s -	\$ 310,597	\$4,778,577								
ı	2036		\$ -	\$ 310,597	\$5,093,953								
ı	2037		\$ -	\$ 310,597	\$5,409,644								
	2038		\$ -	\$ 310,597	\$5,725,651								

## GRAND LEDGE SEWER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE

2018

ASSETS COLLECTION	N SYSTEM		ANNUAL RESERVE					
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION	ORIGINAL INSTALLATION OR REHAB YEAR	NORMAL INTENDED USEFUL LIFE OR NEXT REHAB	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	REPLACEMENT COST FUNDED BY RATES	REPLACEMENT MONE RESERVED ANNUALLY
Eaton Hwy								
(2) Pumps		2015	15	3	2030	12	\$10,000	\$667
ELECTRIC PANEL & CONTROLS		1980	25	38	2005	-13	\$15,000	\$600
Loch Ledge								
(2) Pumps		2014	15	4	2029	11	\$10,000	\$667
ELECTRIC PANEL & CONTROLS		2010	25	8	2035	17	\$15,000	\$600
Whitney St							••••••	
(2) Pumps		2008	15	10	2023	5	\$15,000	\$1,000
ELECTRIC PANEL & CONTROLS		2018	25	0	2043	25	\$30,000	\$1,200
(2) Motors		2008	15	10	2023	5	\$4,000	\$267
Burt Ave		2047	45		0000		#10.000	*****
(2) Pumps ELECTRIC PANEL &		2017 1990	15 25	1	2032 2015	14	\$12,000	\$800
CONTROLS		1990	20	28	2013	-3	\$15,000	\$600
W River St								
Pump 1	NEW 1990 - REHABED 2010	2018	5	0	2023	5	\$2,500	\$500
PUMP 2	NEW 1990 - REHABED 2011	2017	5	1	2022	4	\$2,500	\$500
PUMP 3	NEW 1990 - REHABED 2011	2011	5	7	2016	-2	\$2,500	\$500
MOTOR 1	NEW 1990 - REHABED 2010 & 2017	2017	10	1	2027	9	\$1,650	\$165
MOTOR 2	NEW 1990 - REHABED 2011	2011	10	7	2021	3	\$1,650	\$165
MOTOR 3	NEW 1990 - REHABED 2011	2011	10	7	2021	3	\$1,650	\$165
(3) Check Valve 6" - 900		1990	25	28	2015		#0.700	0400
EACH						-3	\$2,700	\$108
Control Panel Allen Brady		2010	20	8	2030	12	\$20,000	\$1,000
Electric Panel/Gear	2 REPLACED IN	2010	20	8	2030	12	\$8,500	\$425
(3) VFD	2016	2016	15	2	2031	13	\$6,000	\$400
Mag/Flowmeter		2010	20	8	2030	12	\$3,000	\$150
Overflow Mag		2010	25	8	2035	17	\$3,000	\$120
Generator		1990	40	28	2030	12	\$50,000	\$1,250
Confined Space Hoist/System BUILDING MAINT - ROOF & HE/	AT ETC	2016	20	2	2036	18	\$2,500	\$125
W Jefferson St	KI EIU	2015	20	3	2035	17	\$4,000	\$200
(2) Pumps		2006	20	12	2026	8	\$63,300	\$3,165
Generator (2) Check Valves		2006 2006	30	12	2036	18	\$40,000	\$1,333
(2) VFD Cutler Hammer SUX 90	00	2006	25 15	12 12	2031 2021	13 3	\$4,600 \$12,000	\$184 \$800
29)19/alves Butterfly		2006	25	12	2031	13	\$14,700	\$588
Mag Flowmeter Controls Multismart		2006 2006	15 15	12 12	2021 2021	3 3	\$3,800 \$2,600	\$253 \$173

GRAND LEDGE SE ASSET INVENTORY, F 2018		NT & REHABIL	ITATION SCH	EDULE				
ASSETS COLLECTION	N SYSTEM		ASSE	TREPLA	CEMENT SC	HEDULE		ANNUAL RESERVE
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION	ORIGINAL INSTALLATION OR REHAB YEAR	NORMAL INTENDED USEFUL LIFE OR NEXT REHAB	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	REPLACEMENT COST FUNDED BY RATES	REPLACEMENT MONEY RESERVED ANNUALLY
Electric Gear/Panels		2006	25	12	2031	13	\$15,000	\$600
Fitzgerald Field								
(2) Pumps		1992	30	26	2022	4	\$10,300	\$343
Controls		2018	20	0	2038	20	\$4,400	\$220
							\$408,850	\$ 19,833

## GRAND LEDGE SEWER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE

2018

ASSETS WWTP 1	ASSET REPLACEMENT SCHEDULE								
EQUIPMENT LIST / MAINTENANCE ACTIVITY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE YEARS BEFORE REPLACEMENT	REPLACEMENT COST FUNDED BY RATES	REPLACEMENT MONE RESERVED ANNUALLY		
MAINTENANCE BLD /Screening Room									
Bar Screen	2011	20	7	2031	13	\$61,700	\$3,085		
Washing Screw Compactor	2011	20	7	2031	13	\$40,650	\$2,033		
Controls	2011	20	7	2031	13	\$22,300	\$1,115		
Recycle Pump	2011	20	7	2031	13	\$8,650	\$433		
Electric Controls	2011	20	7	2031	13	\$5,000	\$250		
Gas Detectors	2011	10	7	2021	3	\$7,500	\$750		
Exhaust Fan	2011	20	7	2031	13	\$1,000	\$50		
Chlorine Tablet	2011	20	7	2031	13	\$5,000	\$250		
Muffin Monster	2011	25	7	2036	18	\$10,000	\$400		
MAINTENANCE BLD - ROOF ETC	2011	20	7	2031	13	\$35,000	\$1,750		
	2011	25	7	2036	18	\$20,000	\$800		
Crit Puilding	2011	20		2000	10	\$20,000	φουυ		
Grit Building	2011	15	7	2026	8	\$5,200	\$347		
Sampler for Influent  Grit Blower and 10 H.P. Motor	2011			ļ					
		25	7	2036	18	\$22,500	\$900		
Exhaust Fan Parshall Flume	2011 2011	20 30	7	2031 2041	13	\$1,500	\$75		
Influent Flow Meter	2011	15	7	2026	23 8	\$2,570 \$4,000	\$86 \$267		
Chlorine Room									
Chlorine Pace Unit	2011	10	7	2021	3	\$3,000	\$300		
(2) Chlorine Regulators	2018	10	0	2028	10	\$2,500	\$250		
Chlorine Gas Leak Detector	2011	15	7	2026	8	\$2,531	\$169		
Final Effluent Flow Meter	2011	10	7	2021	3	\$3,500	\$350		
							***************************************		
Pump Room 1 Lobe Pro Sludge Pumps 15									
H.P. 1	2018	10	0	2028	10	\$15,000	\$1,500		
Lobe Pro Sludge Pumps 10 H.P. 2	2014	10	4	2024	6	\$15,000	\$1,500		
					<u> </u>		********		
Return Pumps 15 H.P. 1	2010	25	8	2035	17	\$13,000	\$520		
Return Pumps 15 H.P. 2	2007	25	11	2032	14	\$13,000	\$520		
Return Pumps 15 H.P. 3	2013	25	5	2038	20	\$13,000	\$520		
2) Effluent Pumps 10 H.P.	2012	20	6	2032	14	\$4,630	\$232		
Power Valve	2014	10	4	2024	6	\$1,900	\$190		
(3) "Mags" Return Sludge Waste	2009	15	9	2024	6	\$8,330	\$555		
Cummins Diesel Powered Senerator - NEW 2011 40 YRS									
OUT FOR REPLACEMENT									
ntermediate Lift Station	2011	20	7	2024		#40 000	#0.400		
3) 15 H.P. Submersible Pumps	2011	20	7	2031	13	\$42,000	\$2,100		

2018									
ASSETS WWTP 1 ASSET REPLACEMENT SCHEDULE									
EQUIPMENT LIST / MAINTENANCE ACTIVITY	ORIGINAL INSTALLATION YEAR	NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT REPLACEMENT YEAR	REMAINING LIFE YEARS BEFORE REPLACEMENT	REPLACEMENT COST FUNDED BY RATES	REPLACEMENT MONE RESERVED ANNUALLY		
Hoist for Pump Service	2011	30	7	2041	23	\$2,100	\$70		
Electric Panel and Controls	2011	20	7	2031	13	\$10,000	\$500		
Primary Tanks (2)									
Flight Drive	1975	41	43	2016	-2	\$35,000	\$854		
Cross Screws	1975	45	43	2020	2	\$25,000	\$556		
Replacement Chain/Flights	2009	15	9	2024	6	\$22,140	\$1,476		
Aeration Tanks									
Replacement Membranes for All Diffusers	2009	15	9	2024	6	\$12,000	\$800		
Blower Room									
Centrifugal Blowers 1	2014	20	4	2034	16	\$33,000	\$1,650		
Centrifugal Blowers 2	2007	20	11	2027	9	\$33,000	\$1,650		
Centrifugal Blowers 3	2010	20	8	2030	12	\$33,000	\$1,650		
						\$595,201	\$ 30.500		

### GRAND LEDGE SEWER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE

2018

ANNUAL **ASSETS WWTP 2 ASSET REPLACEMENT SCHEDULE** RESERVE REMAINING REPLACEME NORMAL NEXT LIFE - YEARS PERCENT PERCENT REPLACEMENT ORIGINAL INSTALLATION CURRENT NT COST EQUIPMENT LIST / MAINTENANCE ACTIVITY INTENDED REPLACEMENT BEFORE OF ASSET CONSUME MONEY RESERVED YEAR AGE UNDED BY USEFUL LIFE YEAR REPLACEME LEFT D ANNUALLY RATES NT Final Clarifier Drives 1975 50 43 2025 7 \$100,000 14% 86% \$2,000 Chemical Feed Room 2013 15 5 2028 10 \$8,500 67% 33% Lime Pumps 1 \$567 2010 15 8 2025 Lime Pumps 2 \$8,500 47% 53% \$567 2014 15 4 2029 11 \$8,850 73% 27% \$590 Ferric Pumps (2) 2017 15 1 2032 \$4,500 14 93% 7% \$300 Bisulfite Pumps 2016 20 2 2036 18 \$15,000 90% 10% \$750 5 000 Gallon Ferric Tanks (2) 2014 25 4 2039 21 \$4,364 16% 84% \$175 Pulse Dampeners for Lime Pumps (2 Lime Dust Collector 1982 40 36 2022 4 \$8,000 10% 90% \$200 Lab Equipment 2 Spectrophotometer 2016 10 2026 8 \$5,000 80% 20% \$500 Top Loader" Scale 2005 20 13 2025 \$1,300 35% 65% \$65 2000 20 18 2 2020 \$3,500 10% 90% \$175 Orying Oven 2000 20 18 \$3,000 2020 2 10% 90% \$150 pH Meter 2016 10 2 2026 8 \$1,500 80% 20% \$150 Muffle Furnace 2017 10 1 2027 9 \$2,000 90% 10% \$200 **BOD** Incubator 2014 15 2029 11 \$4,300 73% 27% \$287 Autoclave 2012 6 15 2027 9 \$5,200 60% 40% \$347 BOD Meter 2017 8 2025 13% 88% \$313 Water Softener 2000 20 18 2020 2 \$3,000 10% 90% \$150 2010 2008 53% 67% Primary Sampler 8 2025 \$6,150 47% \$410 Final Sampler 10 2023 \$6,150 33% \$410 Scada Computer 2015 2020 \$4,500 60% 40% \$900 2011 Scada Computer "Backup" 2018 0 \$4,500 0% 100% \$643 SCADA SOFTWARE 10 2021 \$20,000 30% 70% \$2,000 Miscellaneous Heat and A/C Unit for WWTP on Root 2010 20 8 2030 12 \$15,000 60% 40% \$750 ROOF - MAIN WWTP BUILDING 1999 20 19 2019 \$35,000 5% 95% \$1,750 Vehicles 2026 47% 8 \$425,000 53% \$28,333 Camera Truck 2013 15 2028 10 \$65,250 67% 33% \$4,350 T-1 PICKUP INCLUDES PLOW & SERVICE BODY 2017 8 1 2025 7 \$38,500 88% 13% \$4,813

GRAND LEDGE SEWER ASSET INVENTORY, REPLACEMENT & REHABILITATION SCHEDULE  2018  ASSETS WWTP 2  ASSET REPLACEMENT SCHEDULE									ANNUAL RESERVE
Crane/Hoist	2014	20	4	2034	16	\$2.800	80%	20%	\$140
T2 PICKUP	2018	10	0	2028	10	\$19,000	100%	0%	\$1,900
ROOFS - GRIT, INTERMEDIATE LS, VALVE, CONTROL BLD	1997	20	21	2017	-1	\$15,000	-5%	105%	\$750
TRANSFORMER - ELECTRICAL NEW IN 2011 SHOULD LAST APROX 40 YEARS									***************************************
						\$845,864	59%		\$ 54,632