I he Decarbonaras

Carbon Reduction Challeng Dverview:



• A plastic and aluminum recycling program was implemented at the New Piney Grove Missionary Baptist Church (NPG)



 Meals or beverages were provided through church programs that greatly contributed to recyclable materials

March and April 2013 church calendar ---->









• Small-scale recycling done by individual group members as well.







Calculations:

- Total Plastic Recycled: 357.3 pound = 393.9 lbs. of CO₂ - Total Aluminum Recycled: 131.5 pounds = 1304.8 lbs. of CO₂ (Total CO₂ reductions) 1698.7 lbs. - (transportation emissions) 81.7 lbs. = 1617 pounds of CO₂

CO₂ Saved: 1617 pounds

Scalability:

• If the recycling program continued for a year, we would save 9702 lbs. of CO₂

Grand Total of CO₂ Reductions = 14,550.7 pounds

In order to reduce the required amount of carbon dioxide emissions, we took a three-angle approach to the problem by recycling, practicing a vegetarian diet, and planting trees. Over an eight week implementation period and with the participation of many friends and family, we were able to demonstrate a small way every day people could make a positive impact on the environment.

	Exit Survey
	*1. What is your name?
	2. Did you abstain from eating meat Monday through Friday beginning March 1st?
arch and April?	Yes No
	3. Are you planning on making any permanent lifestyle changes after completing the two month period as a <u>vegetarian</u> ?
v Done	
	4. What was the most difficult part of keeping up with a vegetarian <u>diet</u> ?

	<u>Type of</u> <u>Meat</u>	Kg of CO₂	
	1 kg of beef	27 kg	
	1 kg of chicken	6.9 kg	
	1 kg of fish	11.9 kg	
Be	eef	Poultry	
n 40	60	337	
13	380	1011	
os.) 31	160.2	789.591	





Survival Factors by Growth Rate		Annual Sequestration Rates by Tree Type and Growth Rate (lbs. carbon/tree/year)						
			Hardwood			Conifer		
,	Moderate	Fast	Slow	Moderate	Fast	Slow	Moderate	Fast
3	0.873	0.873	1.3	1.9	2.7	0.7	1.0	1.4
8	0.798	0.798	1.6	2.7	4.0	0.9	1.5	2.2
6	0.736	0.736	2.0	3.5	5.4	1.1	2.0	3.1
6	0.706	0.706	2.4	4.3	6.9	1.4	2.5	4.1
8	0.678	0.678	2.8	5.2	8.5	1.6	3.1	5.2
8	0.658	0.658	3.2	6.1	10.1	1.9	3.7	6.4
9	0.639	0.644	3.7	7.1	11.8	2.2	4.4	7.6
1	0.621	0.630	4.1	8.1	13.6	2.5	5.1	8.9
3	0.603	0.616	4.6	9.1	15.5	2.8	5.8	10.2
5	0.589	0.602	5.0	10.2	17.4	3.1	6.6	11.7
8	0.576	0.589	5.5	11.2	19.3	3.5	7.4	13.2
2	0.564	0.576	6.0	12.3	21.3	3.8	8.2	14.7
6	0.551	0.563	6.5	13.5	23.3	4.2	9.1	16.3
4	0.539	0.551	7.0	14.6	25.4	4.6	9.9	17.9
2	0.527	0.539	7.5	15.8	27.5	4.9	10.8	19.6

1. http://epa.gov/epawaste/conserve/tools/warm/Warm Form.html http://www.fns.usda.gov/fdd/facts/hhpfacts/New HHPFacts/Meats/HHFS BEEF GROUND A609 Final.pdf http://www.eia.gov/petroleum/gasdiesel http://www.epa.gov/cleanenergy/energy-resources/calculator.html#results