SOME INTERESTING NUMERICAL FACTS ABOUT THE "EXODUS"

(The following is the result of a Dallas, Texas Engineer's numerical calculations of what God had to do to provide for His chosen people as He led them through the wilderness to their promised land. The figures are astounding and further prove that ONLY God could have done what was done.)

Two students were talking about the universe and its wonders and how things came into being. One student held to the theory that the heavenly bodies at one time were all a part of one large mass and at some time in the distant past a hugh explosion hurled the stars into their various present locations. Life and all that existed on the planets just happened eventually. The second student was firm in his belief that God as the Supreme Being, created the heavens and the earth and regulated them into their various patterns. "How could God go about creating something as great as the heavens and the earth?" asked the other student. "Well, it all depends on just how great your God is" answered the other.

God is indeed great and mighty and the things He has done are beyond any human reasoning. His methods of accomplishing these great deeds are not usually understood by the most brilliant people. Take the Biblical account of the "Exodus" for example:

1. The Hebrew people were chosen of God, they did not choose Him. He promised their forefather, Abraham that He would make a great nation of his children.

2. God had the task of changing a small desert tribe into a great, learned people, wise in the arts and sciences, so they must have schooling to learn woodworking, weaving, metal working, building construction, business and to learn who the one true God really was. God chose Egypt for the schoolhouse for His people.

3. Joseph was the first to be sent to Egypt. He, with the help of God, became a ruler there. We all know the story of his rise to power and the bringing of his brothers and their families and his father to Egypt to be with him. In all at this time, there were 70 persons of Hebrew blood in Egypt.

4. Some 430 years pass between that time and the time Moses led the people out of bondage. During this time the "...the people were fruitful and prolific, they increased in numbers and grew greater so that the land was full of them..."

5. At the time of the Exodus, there were 600,000 men 20 years of age and older, besides women and children.

6. If each man had a wife and an average of 4 children, (an average family then), this would give a total population of some 3,600,000. For 70 people to multiply to this number in 430 years, it would be necessary to double the population in about every 25 years. This is easily possible.

7. The people learned the various trades and professions of Egypt and now were ready to be given their next, second, lesson. God chose to remove them from Egypt and put them in their promised land, but first they must know that He is God, so to prove this He leads them OUT to where they are entirely dependent on Him for their EVERY need. As the people leave, they take with them gifts from the Egyptians, gold, silver, linen and clothing. Also they took their own cattle, both flocks and herds.
8. Now assume that for each man there were:
   2 goats which would total 1,200,000
   2 sheep which would total 1,200,000
   1 donkey which would total 600,000
   1/2 cow which would total 300,000
   1/2 camel which would total 300,000
   Giving a total of 3,600,000 head of animals

9. This is the same number as the number of people. This may seem like a lot of animals/cattle, but this number was necessary for the people to have the required sacrifices required later in their journey.

10. 3,600,000 people! Can you imagine how many people that is? If all the people were in one group allowing a space 3’ x 3" for each person, they would require 1.29 square miles of area. If you allow a space of 50' x 50' to pitch their tent and an equal area for their animals to bed down. Then Moses needed a campsite of 3 billion square feet or 109 square miles (10.5 x 10.5 miles).

11. Looking at the size another way: If when marching through the Red Sea they were lined up 50 people abreast, then the column of people would extend for 41 miles back into the desert. Allow twice as much room for the cattle due to their physical size and the column extends for 123 miles.

12. Marching at 2.5 miles per hour would require 16 hours and 20 minutes for the people to all pass the one same point. 32 hours and 20 minutes for the cattle and a total of 49 hours from the first person to the last animal to pass the same point.

13. The people grumbled and demanded food and water. This is a small enough request in itself, so let's take a look at what would have been involved:

14. God provided manna to the people after one month out and it continued throughout their journey. God allowed them one omer (7 pints). We know that God provided more than was required for every day for the people were instructed to take only their ration and what was left evaporated.
   - If 50% extra was furnished daily, then each day God would supply in volume:
     - 123,000 cubic feet for the people
     - 61,500 cubic feet extra
   - An average railroad boxcar has about 4,000 cubic feet volume. Therefore to supply manna, 46 boxcars daily would be necessary.

15. In current design, an allowance for water demand for a city the size of Irving, Texas, it would be from 60 to 75 gallons per day per person. For a campsite, about 25 gallons per day per person. For horse or cow, 10 gallons per day and for sheep or goats, 5 gallons per day. Therefore with these figures in mind, let's allow the following minimum water requirements:
   - 1 gallon per day per person
   - 2 gallons per day per head of livestock
   - Giving a total minimum daily requirement for water of 10,800,000 gallons per day.
- This is equivalent to 1,080 railroad tanker cars or to a 36 inch pipe line flowing water with a velocity of 2.61 feet per second and at a rate of 7,500 gallons per minute.

16. Food for the livestock the requirements would be:
   - goats and sheep eat 1 gallon of food each per day
   - larger animals eat 2 gallons of food each per day
   - Required food to feed all the animals would be 4,800,000 gallons per day or 160 box cars equalling 640,000 cubic feet of food per day.

17. The daily train required each day to meet the food and water needs of God people and their animals is now 1,286 box cars long and extends 9.5 miles from engine to caboose (front to rear). This would be 13 trains of 100 cars each and every day.

18. In this land of barren waste where almost nothing grows and only sand and rocky hills or mountains are found, the very fact that 3,600,000 people and their animals could survive for 40 years is indeed a first class miracle. This could only happen by the hand of the great God. The ONE who is big enough to accomplish all things.

19. This same God watches over us today and has the same ability He demonstrated so many years ago. He is willing and able to help us if we will only go to Him with out prayers.

20. So, which do you believe, trust: Science or God?