

## Production of zakat on sheep in an ideal case

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"بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ"

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### **Abstract**

Zakat is a fundamental principle in Islam and its economic system hence it is an obligation on all Muslims. My aim is to find how much Zakat an individual who own sheep would have to give during his life under an ideal state.

In my later papers, I will use this paper to lay a founding framework for the theory of value in Islam.

*Keywords:* zakat, sheep, Islamic economic system, theory of value in Islam

## Production of zakat on sheep in an ideal case

**What is Zakat**

Zakat literally means "to be clear, to grow, to increase." It comes from the root letters za, kaf, ya, which has several meanings: to be clean [Al-Quran Chapter 24: Verse 21, Chapter 23: Verse 4], to pay the obligatory charity [Al-Quran 2:43], to be pure, innocent [Al-Quran 19:19, 18:74], to be better in purity [Al-Quran 18:81, 19:13], and to praise oneself, to justify [Al-Quran 53:32]. It has been used in the Quran to mean all of these things. It can also be considered a form of sadaqah (charity), given to the poor.

Zakat is payable on Sheep/Goats, Cows/Buffaloes, Camels, Gold, Silver, Raisin, Rice, Dates, Wheat, and Barley. The commodities and limits are mutually agreed among most of the school of thoughts in Islam.

**Zakat Payable on Sheeps**

The 1st taxable limit is 40, and its Zakat is one sheep. And as long as the number of sheep does not reach 40, no Zakat is payable on them.

The 2nd taxable limit is 121, and its Zakat is 2 sheep The 3rd taxable limit is 201, and its Zakat is 3 Sheep-

The 4th taxable limit is 301, and its Zakat is 4 Sheep The 5th taxable limit is 400 and above, and in this case calculation should be made in hundreds, and one sheep should be given as Zakat for each group of 100 sheep.

And it is not necessary that Zakat should be given from the same sheep. It will be sufficient if some other sheep are given, or money equal to the price of the sheep is given as Zakat.

It is not obligatory to pay Zakat for the number of sheep between the two taxable limits. So, if the number of sheep exceeds the first taxable limit (which is 40), but does not reach the 2nd taxable limit (which is 121), the owner should pay Zakat on 40 sheep only, and no Zakat is due on the sheep exceeding that number, and the same rule applies to the succeeding taxable limits.

If a person gives a sheep as Zakat, there is no harm if its value is slightly less as compared with his other sheep. However, it is better that he should give as Zakat the sheep whose value is more than his other sheep, and the same rule applies for cows and camels.

If all cows and sheep and camels possessed by a person are unhealthy and defective, he can pay Zakat from amongst them. However, if all of them are healthy and young and with no defect, he cannot pay the Zakat liable on them from unhealthy, defective and old ones. In fact, if some of them are healthy and others are unhealthy, and some are defective and others are without any defect, and some are old and others are young, the obligatory precaution is that he should give as Zakat those animals which are healthy, have no defect and are young.

(As-Seestani) (p. 401)

(12.19. Livestock, Animals, Cows, Sheep, Camels, n.d.)

### **Life span of sheep**

- Number of sheeps: 1 ewe and 1 ram
- Age of ewe: 182 days
- Age of ram: 121 days
- Lifespan: 10 years average (3650 days)

- Birth rate: 1 /year (minimum) – 1/365days
- Sexual maturity age of male(ram): 4 – 6 months (121 – 182 days)
- Sexual maturity age of female(ewe): 6 – 8 months (182 - 243 days)
- Lifespan of a man in Pakistan = 65 years (23,725 days)

(Schoenian, n.d.)

### ***Context of Ideal Case:***

Ideal case is when goal of production is to maximise zakat without the interference from uncontrollable factors such as diseases, weather patterns, availability of natural resources etc. A description of the case is as follows:

- When persons age is zero, they are given a newly born Ram and Ewe so by the time they reach year 1 both sheep are at year 1 as well.
- Person's average life is to be considered 65 years. (Ltd, 2013) (Ghani, 2014)
- Each combination of Ewe and Ram will result in the birth of 1 Sheep.

### ***Assumptions.***

- Sheep doesn't suffer from any disease.
- Production of sheep is not dependent on availability of resources.
- Production of sheep is not affected by environmental variables.
- Human owner is not trading any sheep resource.

### **Findings:**

At the end of his life owner had total of 604,000,000,000 sheep and he has given the zakat of 6,039,400,727. He started giving zakat at the age of 8 and the rate of giving zakat begin to increase rapidly by year 14 as from this point in time owner will give zakat on every new 100 sheep that are born.

## References

12.19. *Livestock, Animals, Cows, Sheep, Camels*. (n.d.). Retrieved from Hidaya Foundation:

<http://www.hidaya.org/publications/zakat-information/livestock-animals-cows-sheep-camels>

As-Seestani, A.-S. A.-H. (n.d.). *Islamic Laws - English version of Tawdheehil-Masae'l*. Najaf.

Ghani, A. (2014, December 20). *Life expectancy increased in Pakistan: Report*. Retrieved from

The Nation: <https://nation.com.pk/20-Dec-2014/life-expectancy-increased-in-pakistan-report>

Ltd, E. (2013). *GBD 2013 Mortality and Causes of Death Collaborator*. The Lancet. Retrieved

from <https://nation.com.pk/20-Dec-2014/life-expectancy-increased-in-pakistan-report>

Schoenian, S. (n.d.). *Reproduction in the ewe*. Retrieved from *Sheep 201: A Beginner's Guide to*

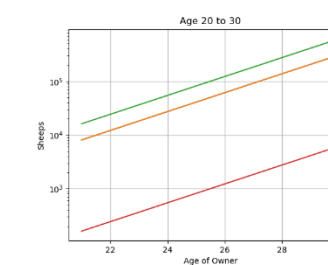
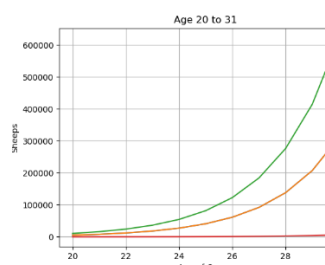
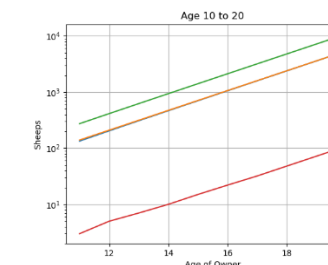
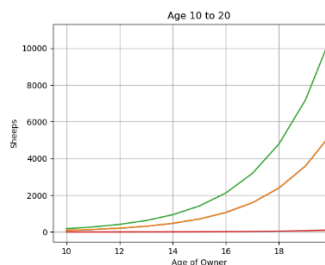
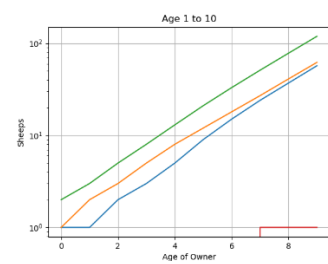
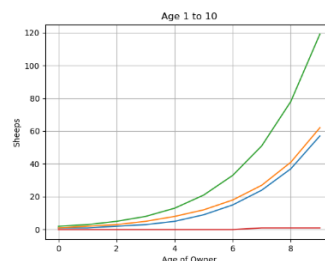
Raising Sheeps: <http://www.sheep101.info/201/ewerepro.html>

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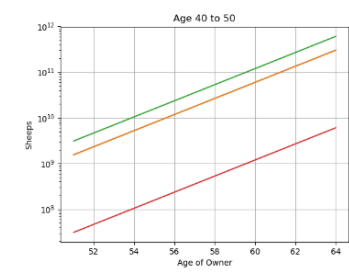
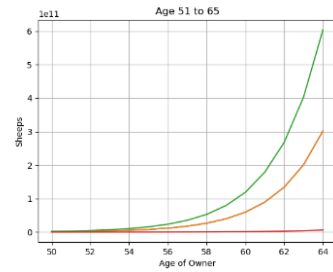
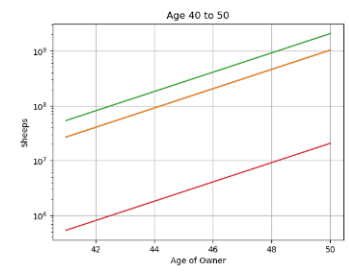
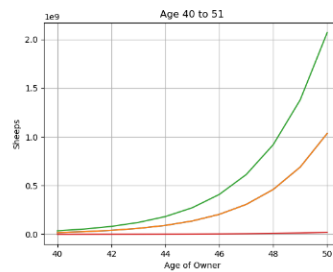
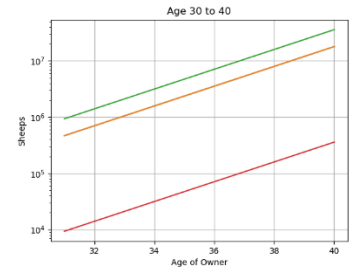
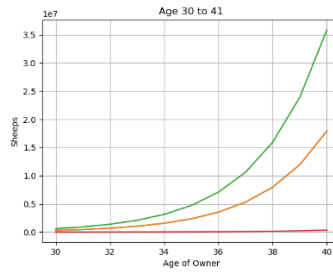
Table 1

Production of Zakat as correlated with production of sheep growing with the increase in age of the owner.

Age	Total Sheeps	Zakat
1	2	0
2	3	0
3	5	0
4	8	0
5	13	0
6	21	0
7	33	0
8	51	1
9	78	1
10	119	1
11	181	2
12	274	3
13	414	5
14	624	7
15	939	10
16	1412	15
17	2122	22
18	3187	32
19	4785	48
20	7182	72
21	10778	108
22	16172	162
23	24263	243
24	36400	364
25	54606	547
26	81915	820
27	122879	1229
28	184325	1844
29	276494	2765
30	414748	4148
31	622129	6222
32	933201	9333
33	1399809	13999



Age	Total Sheeps	Zakat
34	2099721	20998
35	3149589	31496
36	4724391	47244
37	7086594	70866
38	10629899	106299
39	15944857	159449
40	23917294	239173
41	35875950	358760
42	53813934	538140
43	80720910	807210
44	1.21E+08	1210814
45	1.82E+08	1816221
46	2.72E+08	2724332
47	4.09E+08	4086497
48	6.13E+08	6129746
49	9.19E+08	9194619
50	1.38E+09	13791928
51	2.07E+09	20687891
52	3.10E+09	31031837
53	4.65E+09	46547755
54	6.98E+09	69821633
55	1.05E+10	1.05E+08
56	1.57E+10	1.57E+08
57	2.36E+10	2.36E+08
58	3.53E+10	3.53E+08
59	5.30E+10	5.30E+08
60	7.95E+10	7.95E+08
61	1.19E+11	1.19E+09
62	1.79E+11	1.79E+09
63	2.68E+11	2.68E+09
64	4.03E+11	4.03E+09
65	6.04E+11	6.04E+09





Figures title: Owners Age 1 to 10

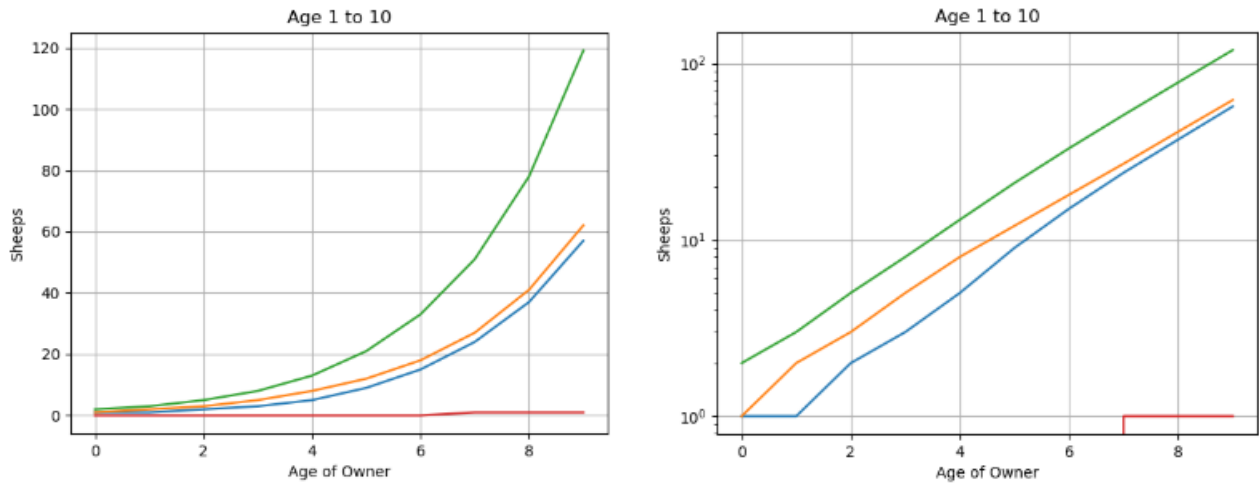


Figure 1. In this diagram orange is the count of Ewe, blue is the count of ram and green is the total of the two. By year 8 person as 8 sheep and applicable zakat is 1 which is clearly visible in log scales as zakat is represented in red.

Figures title: Owners Age 10 to 20

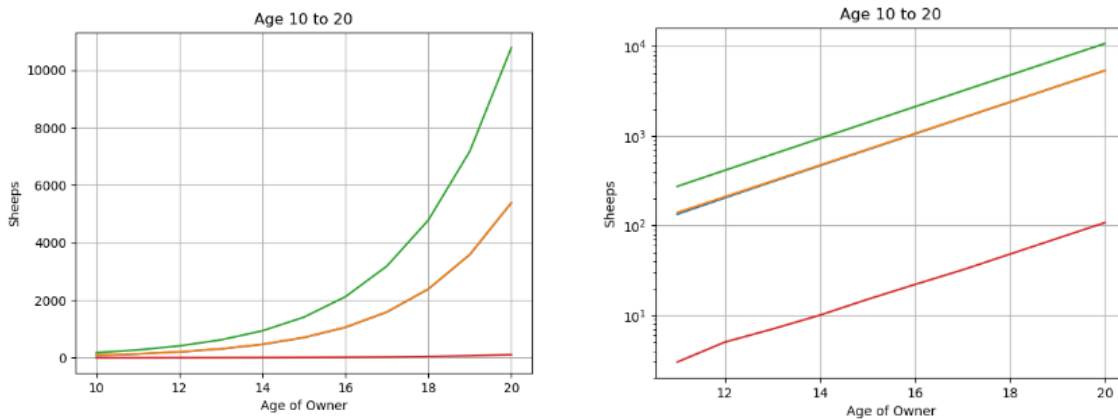


Figure 2. At age 10 person had 119 sheep which is below the limit of 121 thus no Zakat is due other than what the owner paid when he had 40 sheep. By year 20 owner has 7,182 sheep and the zakat he paid is 72 as by this point in time he has to pay zakat of 1 sheep on 100 sheep.