

Price Effect on Short, Long quality Local Rice quantity demanded and Consumer's Preference in Niger State.

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Abstract

The research assessed the effect of price on short, long quality local rice quantity demanded expenditure share and consumer's preference. Multi – stage sampling method was used to get 125 household consumers. The respondents were sampled from zones A, B and C of Niger State. Primary data were got through the use of structured questionnaires. Mean, frequency, and percentages were used to describe the socio – economic characteristics. The household size has mean of 6 and years in school stood at 17. The annual income mean was N414, 000. Almost Ideal Demand System (AIDS) was used to estimate the expenditure share, compensated and uncompensated price elasticity. The result shows that increase in the price of short grain rice will reduce household expenditure share of short grain and vice versa for long grain. Long and short grains were normal goods and expenditure inelastic. Compensated and uncompensated price inelastic.

Keywords: Local rice, Price, Consumer's preference, Elasticity, Normal goods.

1. Introduction

Local rice grain qualities are vital among household consumers in Niger. Consumer's choice of local rice is guided by satisfactions, as well as quality. The qualities like clean white, stone free and taste of rice were important to the consumers, with higher premium paid for it. Consumers derived their needs from the quality of the products, not from products utilized. The tastes and size of the grain may be very importance and are not left out of the study.

Households need constant supply of quality local rice, this may have positive impact on the utilization for local rice. Consumers obtained less satisfaction from poor quality local rice, but cheaper than imported rice. The foreign rice has highest utility value and higher consumer preference but beyond the reach of common man. Its demand may be reduced due to high price.

Low patronage of local rice were due to poor packaging, poor texture and unattractiveness to the consumers. The consumers may be willing to pay high prices for making local rice attractive and quality of the commodity when maintained. Olurunfemi (2014) revealed that consumers preferred rice without foreign matter as the first criterion, followed by whiteness. Price was the least, indicating that consumers were ready to pay high prices for clean rice that is of high quality.

Gideon *et al.*, (2014) observed that local rice is of poor quality and that was why Ghanaians prefer imported rice to locally produced rice, largely because imported rice is free from foreign materials and has better grain quality. The study want to consider the price of short, long and qualities of local rice as they affect household preference and expenditure in Niger State.

2. Materials and Methods

This study used primary data, in obtaining primary data, a multistage sampling method was employed in the selection of respondents. First, purposive selection of two local government areas from each of the three (3) agricultural zones of the state due to predominant production of local rice in these areas. Simple random sampling technique was adopted in the selection of two communities from each local government area especially communities where rice cultivation is highly predominant. The third stage was simple

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random selection of 125 household heads from sample frame of 165,697 selected from each two communities chosen from 6 local governments in the state using Taro Yamane's formula at 9% precision.

Using Yamane, T. (1967) formula stated as $n = \frac{N}{1+N(e)^2}$

Where n =sample size

N = population size

e = margin error

Primary data were collected using structured questionnaire. Information regarding socio-economic characteristics of respondents, disposable income. Expenditure on long local rice, Short local rice and total expenditure on both local rice were calculated

3. Analytical Tools

Descriptive statistics like mean, frequency and percentages were used to describe the socio – economics of the sampled respondents in the study area, Almost Ideal Demand System (AIDS) model was also used. The AIDS model is specified as follows

 $W_{i} = \alpha_{1} + \sum_{i} Yij \operatorname{Log}P_{j} + \beta_{i} \operatorname{Log}(X/P_{t}) + \sum_{i} \delta_{i} jDs$ (1)

Where

 W_i = Expenditure share associated with ith rice good in \aleph/kg

 Y_{ij} = slope coefficient associated with jth rice good in the ith rice expenditure share equation

 P_j = Price of the jth rice good (price/Kg paid per consumer for a particular rice

Category/quality.

X = Total consumption expenditure by all consumers on various qualities of rice in /Kg

 $P_t = Price index = p^* \sum wi Log P_i$

Ds = Disposable income and consumer quantity needed

 α_1 , Yíj β_1 and δ_1 = parameters to be estimated

3.1 Hick Sian Price Elasticity

This will be used in estimating the adjustment that consumer will make in the consumption of rice with one characteristic as a reaction to change in price of another rice. The model was stated as follows;

$$e^{h}_{ij} = e^{m}_{ij} + w_{j}e_{i}$$

3.2 Expenditure elasticity

This measures the responsiveness of consumers' expenditure on different rice quality due to change in consumer's income. Specified as;

$$e_i = 1 + \beta_i / w_i$$

3.3 Own price elasticity

This measure the response of the consumer's quantity of rice bought as a result of price of different characteristics in question holding utility fixed while minimizing expenditure. Specified as;

$$\mathbf{e}_{ii} = 1 + (\gamma_{ii}/w_i) - \beta_i$$

3.4 Uncompensated price elasticity.

This measure the response of the consumer's quantity of rice bought as a result of price of different characteristics in question holding price fixed while maximizing utility.

 $e^{m}_{ij} = \gamma_{ii} / w_{i+} \beta_{i} w_{j} / w_{i-} \Box ij$ (5)

4. RESULT AND DICUSSION

Socio -economic characteristics of the local rice consumers in Niger State.



(3)

(4)

(2)



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The socio –economic characteristics of local rice consumers varies and have impact on consumption pattern of local rice. Some of the socioeconomic characteristics considered in the study were age, gender, household size, education level and annual income levels as presented in Table.1 It is true that as the age of human increases the household size also increases. The result presented in table1 shows that household heads were within the age range of 41 - 50 years in Niger with 44% Age of household heads could have influence on quantity of rice demanded; this is because as age increases the household size increases. The mean age of the households in Niger was 45. This work corroborates that of Oyinbo, (2014) and Salihu *et al*, (2017).

Gender of the household head has great impact on rice consumption pattern this was also noted by Agboola, (2003). The result in the table.1 shows that all the respondents (100%) were male. This could be the influence of the two common religions practiced in the northern part of Nigeria. These religions belief that only male should be the head of the family. The research agrees with the work of (Ibrahim, 2014).

	Frequency	Percentage	
Age			
20 - 30	4	3	
31 - 40	34	27	
41 - 50	54	44	
51 - 60	33	26	
Total (mean)	125(45)	100	
Gender			
Male	125	100	
Female	-	-	
Total	125	100	
Household size			
1 - 10	118	94.4	
11 - 20	7	5.6	
21 - 30	-	-	
Total (mean)	125(6)	100	
Edu.level			
Primary	13	10.4	
Secondary	35	28	
tertiary	41	32.8	
Non formal	36	28.8	
Total (mean)	125 (6)	100	
Annual income			
201,000 -300,000	20	16.8	
301,000 - 400,000	14	11.2	
401,000 - 500,000	58	46.2	
501,000 - 600.000	12	9.6	
601,000 - 700,000	7	5.6	
701,000 - 800,000	4	3	
801,000 - 900,000	4	3	
901,000 - 1,000,000	6	4.8	
Total (mean)	125(414)	100	

Source: Field survey, 2017

Household size determines the quantity of local rice to be bought and used. The household size was high among the respondents. Majority of the respondents have household size of 1-10 persons in Niger 94.4%.



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The mean household sizes was 6 and 8 for Niger. This also agrees with the study of Salihu *et al*, (2017) and Ehiakpor, (2017)

It is assumed that a well-educated respondent can easily get access to information concerning nutritional value of all kind of local rice available in the market. This information could have positive or negative effects on the use of local rice. Qualitative local rice that is clean may be favoured while low quality local rice may be affected negatively. Majority of the respondents attended secondary and tertiary education. 60.8 percent. This is to say that all the respondents were educated in one way of the other. This agrees with the works of Ahmad *et al.*, (2010), Ahmad *et al.*, (2011) and Olurunfemi, (2014).

Income is a vital factor that influences household food consumption. As income of household increases the food consumption also increases. Although there could be exceptional situations that as the income increases the respondents may change to foreign rice. The result presented in table1shows that the respondents were low income earners. The mean income for Niger State were 414, this agrees with the studies of Salihu *et al.*, (2017), Kassali *et al.*, (2010) and Ahmad *et al.*, (2011).

4.1 Estimates Effect of Short and Long Grain local Rice Prices on their Respective Expenditure Shares

The estimated parameters of the AIDS models for short and long grain rice in the study area are presented in Table 2. The F-statistics of the estimated short and long grain rice equations in the study area data were all significant at 1% significance level and this indicates the joint significance of the explanatory variables included in the various equations respectively. The R-squared values of 0.8961, for short grain rice equations in Niger, implies that 89.61%, variation in the households' monthly budget share of short grain rice in the monthly food expenditure were explained by the variables included in the models. Also, the R-squared values of 0.7938, for the long grain rice equations implies that 79.38%, variation in the monthly budget share of long grain rice in the monthly food expenditure of household in Niger, data were explained by the variables included in the models.

In Niger state, the result presented in Table 2 revealed that the price of short grain rice at p<0.01, price of long grain rice at p<0.01, household expenditure at p<0.01, respondents' perception on taste and texture at p<0.05 and household monthly income were all significantly influencing the proportion of households expenditure on short grain rice. The result for long grain rice equation indicated that the price of short grain rice at p<0.01, price of long grain rice at p<0.01, household expenditure at p<0.01, household expenditure at p<0.05 and households expenditure on short grain rice. The result for long grain rice equation indicated that the price of short grain rice at p<0.01, price of long grain rice at p<0.01, household expenditure at p<0.05 and household size were the significant variables that influences the proportion of households expenditure on long grain rice.

The result revealed that the price of short grain local rice at p<0.01, price of long grain local rice at p<0.01, household expenditure at p<0.01, respondents' perception on aroma of the local rice at p<0.10and taste and texture of local rice at p<0.10 as well as the household size at p<0.05 were all significantly influencing the share of households expenditure on short grain rice. Also, the long grain function revealed that price of short grain rice at p<0.01, price of long grain rice at p<0.01, respondents' perception on the taste and texture of the local rice at p<0.10 as well as the household size at p<0.05 were the significant variables that influences the proportion of households expenditure on long grain local rice. It is noteworthy that the coefficient of the price of short grain local rice was significantly negative and that of the substitute long grain local rice was significantly positive in influencing the share of the expenditure on short grain rice. This implies that an increase in the prices of short grain local rice will reduce households' expenditure share of short grain local rice while increase in the price of the substitute, long grain local rice will lead to increase in the households' expenditure share of short grain rice ceteris paribus. Similarly, coefficient of the price of long grain local rice was significantly negative and that of the substitute short grain local rice was significantly positive in influencing the share of the expenditure on long grain rice. This implies that *ceteris paribus*, an increase in the prices of long grain local rice will reduce households' expenditure share of long grain local rice while increase in the price of the substitute, short grain rice will lead to increase in the expenditure share of long grain rice. More so, household size was found to influence the share of both the short and long grain rice expenditure share. This finding is similar to those of Omonona et al., (2009) and Oyinbo, (2014) who reported that price of the commodity and household size significantly influences the expenditure share of rice in Kaduna State.



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Table 2. Estimates of the Almost Ideal Demand System (AIDS) Model

Area	Rice category	Α	γi	γ_j	βi	(aroma)	(taste and	α_{ij} (household	α_{ij} (monthly	\mathbb{R}^2	F-value
			(price of short	(price of long	(expenditure)		texture)	size)	disposable		
			grain rice)	grain rice)					income)		
iger	Short grain	-0.8822	0.0921	0.1874	-0.1235	0.0097	0.2324	0.0065 (1.46)	0.0102	0.8961	144.20***
		(-3.52***)	(6.38***)	(13.19***)	(-11.29***)	(0.47)	(2.27**)		(4.79***)		
	Long grain	1.2716	0.0685	-0.0285	-0.0515	-0.0094	-0.1945 (-	0.0155	0.0006	0.7938	64.34***
		(3.62***)	(14.78***)	(-12.00***)	(-2.48**)	(-0.32)	1.34)	(2.53**)	(0.17)		

Note: *** = p<0.01, ** = p<0.05 and * = p<0.10 probability level;

figures in parenthesis are t-values

Source:

field

survey,

2017

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4.2 Expenditure elasticity of short and long grain rice in the study area

The expenditure elasticity measures the responsiveness of consumer's expenditure on certain commodity with respect to change in income. The short and long grain rice expenditure elasticity estimates are presented in Table 3. The results indicates that both short local grain and long local grain rice are normal goods as shown by the positive sign of their expenditure elasticities. It also further indicated that the two commodities were expenditure inelastic as their expenditure elasticities were less than one in the study area. This means that both the short and long grain rice are normal goods in the households' food basket in the area. The implication of this is that an increase in the households' monthly income will lead to a less than proportionate increase in their demand for short and long local grain rice. This result is in contrast of that of Omonona *et al.*, (2009) who reported that rice is an inferior good in South-West Nigeria. It however conforms to the findings of Oyinbo (2014) who reported that rice is a normal good in the food basket of households in Kaduna State, a necessity and expenditure inelastic in Borno and Ogun States respectively.

Table 3. Expenditure	elasticity of short a	and long grain rice w	vithin the demand system

Rice category	Niger
Short grain	0.5349
Long grain	0.9298
0 0015	

Source: field survey, 2017.

4.3 Marshallian (uncompensated) demand elasticity of short and long grain rice in the area

The result presented in Table 4 shows that the uncompensated own price elasticities of short and long grain rice in Niger, Benue and pooled data all had the expected negative signs and were price elastic except for Niger where both commodities were found to be price inelastic. This implies that a unit increase in the prices of short and long grain rice in the area will lead to more than proportionately decrease their demand by a unit of their respective elasticity values *ceteris paribus*. However, a unit increase in the price of short and long grain rice in Niger will yield less than proportionately decrease the demand for the commodities respectively. This finding is in contrast to the findings of Oyinbo (2014) who reported that rice and its substitutes were price inelastic in Kaduna States.

The result in Table 4 further revealed that all the estimated cross-price elasticities of short and long grain rice were found to be positive. The positive cross-price elasticities of short and long grain rice indicated substitutability implying that an increase in the price of short grain rice causes an increase in the quantity of long grain rice demanded and vice versa.

Area	Rice category	Own price elasticity	Cross price elasticity
Niger	Short grain	-0.5296	1.0474
	Long grain	-0.9873	0.1119
	Long grann	-0.7075	0.1117

Source: field survey, 2017.

4.4 Hicksian (compensated) demand elasticity of short and long grain rice

The result presented in Table 4 shows that the uncompensated own price elasticities of short and long grain rice in the Niger had the expected negative signs and were price inelastic except for short grain rice in Benue that was found to be price elastic. This implies that a unit increase in the prices of short and long grain rice in the area will less than proportionately decrease their demand by a unit of their respective elasticity values *ceteris paribus*. However, a unit increase in the price of short grain rice in Benue will more than proportionately decrease its demand. This finding is similar to the findings of Oyinbo (2014) who reported that rice and its substitutes were price

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inelastic in Kaduna States. It is also similar to of Baba (2007) and Otunaiya and Shittu (2014) who both reported that fruits and vegetables were price inelastic in Borno and Ogun States respectively.

Also, the result further revealed that all the estimated cross-price elasticities of short and long grain rice were found to be positive. These positive cross-price elasticities of these commodities indicated substitutability and implying that an increase in the price of short grain rice causes an increase in the quantity of long grain rice demanded and vice versa in the study area

Area	Rice category	Own price elasticity	Cross price elasticity
Niger	Short grain	-0.3876	1.4402
	Long grain	-0.3044	0.3588
a a 11	2015		

Source: field survey, 2017.

Conclusion

The study revealed that short and long local rice are close substitute of each other because their cross price elasticity were positive. Increase in the price of one leads to increase in the quantity demanded of another. It is concluded that local rice is a normal goods, price inelastic aand expenditure inelastic

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Biography

NMA DAUDA SANCHITA Was born to the family of Alhaji Muhammad Sancita in Katcha local Government Area in Niger State, Nigeria, in 1970 He obtained his Bachelor degree in Agriculture in 1996 and M.sc Agricultural Economics and Extension in 2010 from Usmanu Danfodiyo University Sokoto. Currently on his Ph'D programme in Federal University of Technology Minna at the same time a senior Research Officer in National Cereals Research Institute Badeggi Niger State.

Biography

Mr David Opaluwa was born into the family of chief and Mrs Fidelis Isa Opaluwa of Oyodu district in Omalla local Government of Kogi State, Nigeria on the 5th of Novenber 1973. He obtained a Bachelor degree in Agricultural Economics and Extension in 1995 from Federal University of Agriculture Makurdi and a Master of Science (M.sc) degree in Development Economics from Benue State University, Makurdi in 2010. I am presently an Agricultural Research Officer in the Department of planning, Monitoring and Evaluation in NCRI Badeggi.

DATA ATTACHED

	SHORT LOCAL RICE			LONG LOCAL RICE		
			Total			Total
S/no	Commodity	Price	Price	Commodity	Price	Price
1	6.5	346.1538	2250	10	346.1538	4500
2	6.5	346.1538	2250	10	346.1538	4500
3	0			90	346.1538	40500
4	13	346.1538	4500	40	346.1538	18000
5	13	692.3077	9000	35	346.1538	15750
6	6.5	346.1538	2250	15	346.1538	6750
7	19.5	346.1538	6750	15	346.1538	6750
8	6.5	346.1538	2250	25	346.1538	11250
9	6.5	346.1538	2250	10	346.1538	4500
10	6.5	346.1538	2250	15	346.1538	6750
11	3.9	346.1538	1350	16	346.1538	7200
12	6.5	346.1538	2250	12	346.1538	5400
13	6.5	346.1538	2250	15	346.1538	6750
14	10.4	346.1538	3600	16	346.1538	7200
15	6.5	346.1538	2250	15	346.1538	6750
16	0			40	346.1538	18000
17	6.5	346.1538	2250	28	346.1538	12600
18	6.5	346.1538	2250	20	346.1538	9000
19	3.9	346.1538	1350	8	346.1538	3600
20	6.5	346.1538	2250	10	346.1538	4500
21	5.2	346.1538	1800	16	346.1538	7200
22	6.5	346.1538	2250	15	346.1538	6750
23	6.5	346.1538	2250	35	346.1538	15750
24	3.9	346.1538	1350	12	346.1538	5400
25	6.5	346.1538	2250	30	346.1538	13500



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34 13 346.1538 4500 25 346.1538 11250 35 6.5 346.1538 2250 10 346.1538 4500 36 6.5 346.1538 2250 15 346.1538 6750 37 13 346.1538 4500 30 346.1538 6750 38 13 346.1538 4500 30 346.1538 6750 40 13 346.1538 2250 15 346.1538 6750 41 0 25 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 11250 44 0 36 346.1538 1350 16 346.1538 1220 45 18.2 346.1538 6300 16 346.1538 1250 44 0 36 346.1538 1200 346.1538 1250	32	7.8	346.1538	2700	14	346.1538	6300
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36 6.5 346.1538 2250 15 346.1538 6750 37 13 346.1538 4500 30 346.1538 6750 38 13 346.1538 4500 30 346.1538 13500 39 6.5 346.1538 2250 15 346.1538 6750 40 13 346.1538 4500 15 346.1538 6750 41 0 25 346.1538 11250 342 3.9 346.1538 1350 18 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 1350 44 0 36 346.1538 1350 346.1538 1250 45 18.2 346.1538 6300 16 346.1538 1250 46 6.5 346.1538 1250 25 346.1538 3150 47 3.9 346.1538 1250 346.1538 9000 30 <td< td=""><td>34</td><td>13</td><td>346.1538</td><td>4500</td><td>25</td><td>346.1538</td><td>11250</td></td<>	34	13	346.1538	4500	25	346.1538	11250
37 13 346.1538 4500 15 346.1538 6750 38 13 346.1538 4500 30 346.1538 13500 39 6.5 346.1538 2250 15 346.1538 6750 40 13 346.1538 4500 15 346.1538 6750 41 0 25 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 8100 43 26 346.1538 9000 30 346.1538 16200 44 0 36 346.1538 1250 25 346.1538 1200 45 18.2 346.1538 6300 16 346.1538 1200 46 6.5 346.1538 1350 7 346.1538 1250 47 3.9 346.1538 1350 7 346.1538 9000 50 32.5 346.1538 11250 346.1538 9000	35	6.5	346.1538	2250	10	346.1538	4500
38 13 346.1538 4500 30 346.1538 13500 39 6.5 346.1538 2250 15 346.1538 6750 40 13 346.1538 4500 15 346.1538 6750 41 0 25 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 1000 43 26 346.1538 9000 30 346.1538 1350 44 0 36 346.1538 1350 16 346.1538 1200 45 18.2 346.1538 6300 16 346.1538 1250 45 18.2 346.1538 6750 15 346.1538 11250 46 6.5 346.1538 6750 15 346.1538 3150 47 3.9 346.1538 1350 7 346.1538 3150 50 32.5 346.1538 11250 346.1538 2	36	6.5	346.1538	2250	15	346.1538	6750
39 6.5 346.1538 2250 15 346.1538 6750 40 13 346.1538 4500 15 346.1538 6750 41 0 25 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 1350 43 26 346.1538 9000 30 346.1538 1350 44 0 36 346.1538 16200 346 135 1200 45 18.2 346.1538 6300 16 346.1538 1250 46 6.5 346.1538 2250 25 346.1538 11250 47 3.9 346.1538 1350 7 346.1538 3150 48 19.5 346.1538 1250 20 346.1538 3150 50 32.5 346.1538 11250 30 346.1538 1300 51 13 346.1538 4500 30 346.1538 <td>37</td> <td>13</td> <td>346.1538</td> <td>4500</td> <td>15</td> <td>346.1538</td> <td>6750</td>	37	13	346.1538	4500	15	346.1538	6750
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41 0 25 346.1538 11250 42 3.9 346.1538 1350 18 346.1538 8100 43 26 346.1538 9000 30 346.1538 13500 44 0 36 346.1538 16200 45 18.2 346.1538 6300 16 346.1538 7200 46 6.5 346.1538 2250 25 346.1538 11250 47 3.9 346.1538 1350 7 346.1538 3150 48 19.5 346.1538 6750 15 346.1538 9000 50 32.5 346.1538 11250 50 346.1538 9000 51 13 346.1538 4500 20 346.1538 18000 52 26 346.1538 11250 50 346.1538 13500 53 13 346.1538 4500 30 346.1538 15750 54 </td <td>39</td> <td>6.5</td> <td>346.1538</td> <td>2250</td> <td>15</td> <td>346.1538</td> <td>6750</td>	39	6.5	346.1538	2250	15	346.1538	6750
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6113346.1538450030346.15381350062060346.1538270006313346.1538450028346.1538126006415.6346.1538540012346.153854006532.5346.15381125040346.153818000	59	13	323.0769	4200	15	346.1538	6750
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6313346.1538450028346.1538126006415.6346.1538540012346.153854006532.5346.15381125040346.153818000	61	13	346.1538	4500	30	346.1538	13500
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65 32.5 346.1538 11250 40 346.1538 18000	63	13	346.1538	4500	28	346.1538	12600
	64	15.6	346.1538	5400	12	346.1538	5400
	65	32.5	346.1538	11250	40	346.1538	18000
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72 0 60 346.1538 27000 73 39 346.1538 13500 30 346.1538 13500 74 0 60 346.1538 27000 75 36.4 346.1538 12600 60 346.1538 27000 76 7.8 346.1538 2700 70 346.1538 13500 78 0 28 346.1538 12600 346.1538 13500 79 39 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 23 346.1538 2250 83 6.5 346.1538 2250 25 346.1538 24700 84 13 346.1538 2250 20 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 1250 86 </td <td>70</td> <td>6.5</td> <td>346.1538</td> <td>2250</td> <td>5</td> <td>346.1538</td> <td>2250</td>	70	6.5	346.1538	2250	5	346.1538	2250
73 39 346.1538 13500 30 346.1538 13500 74 0 60 346.1538 27000 75 36.4 346.1538 2700 60 346.1538 2700 76 7.8 346.1538 2700 65 349.1124 29500 78 0 28 346.1538 13500 30 346.1538 13500 79 39 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 25 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 24750 85 6.5 346.1538 2250 10 346.1538 1250 86 6.5 346.1538 2250 10 346.	71	0			60	346.1538	27000
74 0 60 346.1538 27000 75 36.4 346.1538 12600 60 346.1538 2700 76 7.8 346.1538 2700 70 346.1538 31500 77 7.8 346.1538 2700 65 349.1124 29500 78 0 28 346.1538 13500 30 346.1538 12600 79 39 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 25 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 1250 86 6.5 346.1538 2250 10 346.1538 1250 87 13 346.1538 2250 25 346.1	72	0			60	346.1538	27000
75 36.4 346.1538 12600 60 346.1538 2700 76 7.8 346.1538 2700 70 346.1538 31500 77 7.8 346.1538 2700 65 349.1124 29500 78 0 28 346.1538 12600 346.1538 12600 79 39 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 2250 83 6.5 346.1538 2250 5 346.1538 2470 84 13 346.1538 2250 10 346.1538 2470 85 6.5 346.1538 2250 10 346.1538 2470 86 6.5 346.1538 2250 20 346.1538 1250 87 13 346.1538 2250 <t< td=""><td>73</td><td>39</td><td>346.1538</td><td>13500</td><td>30</td><td>346.1538</td><td>13500</td></t<>	73	39	346.1538	13500	30	346.1538	13500
76 7.8 346.1538 2700 70 346.1538 31500 77 7.8 346.1538 2700 65 349.1124 29500 78 0 28 346.1538 12600 336.1538 12600 79 39 346.1538 13500 30 346.1538 13500 80 6.5 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 25 346.1538 9000 82 6.5 346.1538 2250 5 346.1538 2250 83 6.5 346.1538 2250 5 346.1538 24750 84 13 346.1538 2250 10 346.1538 4500 85 6.5 346.1538 2250 20 346.1538 1250 86 6.5 346.1538 2250 20 346.1538 1250 86 6.5 346.1538 2250 <	74	0			60	346.1538	27000
77 7.8 346.1538 2700 65 349.1124 29500 78 0 28 346.1538 13500 30 346.1538 12600 79 39 346.1538 13500 30 346.1538 13500 80 6.5 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 25 346.1538 9000 82 6.5 346.1538 2250 5 346.1538 2250 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 1250 86 6.5 346.1538 2250 20 346.1538 1250 87 13 346.1538 2250 20 346.1538 1250 88 13 346.1538 22	75	36.4	346.1538	12600	60	346.1538	27000
78 0 28 346.1538 12600 79 39 346.1538 13500 30 346.1538 13500 80 6.5 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 9000 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 24750 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 2250 20 346.1538 11250 88 13 346.1538 2250 10 346.1538 11250 90 6.5 346.1538 2250 20 346.1538	76	7.8	346.1538	2700	70	346.1538	31500
79 39 346.1538 13500 30 346.1538 13500 80 6.5 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 1250 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 24750 86 6.5 346.1538 2250 20 346.1538 24750 86 6.5 346.1538 2250 20 346.1538 18000 87 13 346.1538 2250 25 346.1538 11250 89 6.5 346.1538 2250 25 346.1538 13500 91 13 346.1538 2250	77	7.8	346.1538	2700	65	349.1124	29500
80 6.5 346.1538 2250 20 346.1538 9000 81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 11250 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 20 346.1538 24750 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 2250 20 346.1538 18000 88 13 346.1538 2250 25 346.1538 11250 90 6.5 346.1538 2250 25 346.1538 13500 91 13 346.1538 2250 20 346.1538 13500 92 13 346.1538 2250 <	78	0			28	346.1538	12600
81 6.5 346.1538 2250 20 346.1538 9000 82 6.5 346.1538 2250 25 346.1538 11250 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 2250 10 346.1538 24750 85 6.5 346.1538 2250 10 346.1538 24750 86 6.5 346.1538 2250 20 346.1538 4500 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 2250 20 346.1538 1250 88 13 346.1538 2250 25 346.1538 11250 90 6.5 346.1538 2250 25 346.1538 11250 91 13 346.1538 2250 25 346.1538 13500 92 13 346.1538 2250 <t< td=""><td>79</td><td>39</td><td>346.1538</td><td>13500</td><td>30</td><td>346.1538</td><td>13500</td></t<>	79	39	346.1538	13500	30	346.1538	13500
82 6.5 346.1538 2250 25 346.1538 11250 83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 4500 55 346.1538 24750 85 6.5 346.1538 2250 10 346.1538 4500 86 6.5 346.1538 2250 20 346.1538 4500 87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 1250 89 6.5 346.1538 2250 10 346.1538 1250 90 6.5 346.1538 2250 25 346.1538 11250 91 13 346.1538 2250 25 346.1538 1350 92 13 346.1538 2250 30 346.1538 1350 93 0 6.5 346.1538 225	80	6.5	346.1538	2250	20	346.1538	9000
83 6.5 346.1538 2250 5 346.1538 2250 84 13 346.1538 4500 55 346.1538 24750 85 6.5 346.1538 2250 10 346.1538 4500 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 1250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 1250 91 13 346.1538 2250 20 346.1538 13500 92 13 346.1538 2250 20 346.1538 13500 92 13 346.1538 2250 20 346.1538 13500 93 0 6.5 346.1538 225	81	6.5	346.1538	2250	20	346.1538	9000
84 13 346.1538 4500 55 346.1538 24750 85 6.5 346.1538 2250 10 346.1538 4500 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 1250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 11250 91 13 346.1538 2250 25 346.1538 13500 92 13 346.1538 4500 30 346.1538 13500 92 13 346.1538 2250 20 346.1538 13500 93 0 6 346.1538 2250 30 346.1538 13500 94 6.5 346.1538 22	82	6.5	346.1538	2250	25	346.1538	11250
85 6.5 346.1538 2250 10 346.1538 4500 86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 1250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 1250 91 13 346.1538 2250 25 346.1538 1300 92 13 346.1538 2250 20 346.1538 13500 93 0 6.5 346.1538 2250 20 346.1538 13500 94 6.5 346.1538 2250 30 346.1538 13500 95 6.5 346.1538 2250 30 346.1538 13500 95 6.5 346.1538	83	6.5	346.1538	2250	5	346.1538	2250
86 6.5 346.1538 2250 20 346.1538 9000 87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 11250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 1250 91 13 346.1538 2250 25 346.1538 13500 92 13 346.1538 4500 30 346.1538 13500 93 0 60 346.1538 27000 346.1538 27000 94 6.5 346.1538 2250 20 346.1538 13500 95 6.5 346.1538 2250 30 346.1538 13500 95 6.5 346.1538 2250 30 346.1538 13500 96 6.5 346.1538 2250	84	13	346.1538	4500	55	346.1538	24750
87 13 346.1538 4500 40 346.1538 18000 88 13 346.1538 4500 25 346.1538 11250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 1250 91 13 346.1538 4500 30 346.1538 13500 92 13 346.1538 4500 30 346.1538 13500 93 0 60 346.1538 18000 93 0 60 346.1538 27000 94 6.5 346.1538 2250 20 346.1538 9000 95 6.5 346.1538 2250 30 346.1538 13500 96 6.5 346.1538 2250 30 346.1538 13500 98 6.5 346.1538 2250 35 346.1538 1250 100 <td>85</td> <td>6.5</td> <td>346.1538</td> <td>2250</td> <td>10</td> <td>346.1538</td> <td>4500</td>	85	6.5	346.1538	2250	10	346.1538	4500
88 13 346.1538 4500 25 346.1538 11250 89 6.5 346.1538 2250 10 346.1538 4500 90 6.5 346.1538 2250 25 346.1538 11250 91 13 346.1538 4500 30 346.1538 13500 92 13 346.1538 4500 40 346.1538 18000 93 0 60 346.1538 27000 94 6.5 346.1538 2250 20 346.1538 27000 94 6.5 346.1538 2250 20 346.1538 9000 95 6.5 346.1538 2250 30 346.1538 13500 96 6.5 346.1538 2250 30 346.1538 13500 97 6.5 346.1538 2250 35 346.1538 15750 99 6.5 346.1538 2250 35 346.1538 1250 <	86	6.5	346.1538	2250	20	346.1538	9000
896.5346.1538225010346.15384500906.5346.1538225025346.1538112509113346.1538450030346.1538135009213346.1538450040346.15381800093060346.153827000946.5346.1538225020346.15389000956.5346.1538225030346.153813500966.5346.1538225030346.153813500976.5346.1538225030346.153813500986.5346.1538225020346.153815750996.5346.1538225025346.1538125010013346.1538450045346.15382025010113346.1538450030346.153813500102015346.1538125035346.1538125010313346.1538225035346.153812501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538225035346.1538 <td< td=""><td>87</td><td>13</td><td>346.1538</td><td>4500</td><td>40</td><td>346.1538</td><td>18000</td></td<>	87	13	346.1538	4500	40	346.1538	18000
90 6.5 346.1538 2250 25 346.1538 11250 91 13 346.1538 4500 30 346.1538 13500 92 13 346.1538 4500 40 346.1538 18000 93 0 60 346.1538 27000 94 6.5 346.1538 2250 20 346.1538 9000 95 6.5 346.1538 2250 30 346.1538 13500 95 6.5 346.1538 2250 30 346.1538 13500 96 6.5 346.1538 2250 30 346.1538 13500 97 6.5 346.1538 2250 20 346.1538 13500 98 6.5 346.1538 2250 25 346.1538 1250 100 13 346.1538 2250 25 346.1538 1250 101 13 346.1538 4500 30 346.	88	13	346.1538	4500	25	346.1538	11250
9113346.1538450030346.1538135009213346.1538450040346.15381800093060346.153827000946.5346.1538225020346.15389000956.5346.1538225030346.153813500966.5346.1538225030346.153813500966.5346.1538225030346.153813500976.5346.1538225020346.153813500986.5346.1538225025346.153815750996.5346.1538225025346.1538125010013346.1538450045346.15382025010113346.1538450030346.153813500102015346.1538125010313346.1538225035346.1538157501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	89	6.5	346.1538	2250	10	346.1538	4500
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946.5346.1538225020346.15389000956.5346.1538225030346.153813500966.5346.1538225030346.153813500976.5346.1538225020346.15389000986.5346.1538225020346.15389000986.5346.1538225025346.153815750996.5346.1538225025346.1538125010013346.1538450045346.15382025010113346.1538450030346.153813500102015346.15381250346.1538125010313346.1538450025346.153812501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	92	13	346.1538	4500	40	346.1538	18000
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966.5346.1538225030346.153813500976.5346.1538225020346.15389000986.5346.1538225035346.153815750996.5346.1538225025346.15381125010013346.1538450045346.15382025010113346.1538450030346.153813500102015346.1538125010313346.1538450025346.153812501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	94	6.5	346.1538	2250	20	346.1538	9000
976.5346.1538225020346.15389000986.5346.1538225035346.153815750996.5346.1538225025346.15381125010013346.1538450045346.15382025010113346.1538450030346.153813500102015346.1538675010313346.1538450025346.1538112501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	95	6.5	346.1538	2250	30	346.1538	13500
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10013346.1538450045346.15382025010113346.1538450030346.153813500102015346.1538675010313346.1538450025346.1538112501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	98	6.5	346.1538	2250	35	346.1538	15750
10113346.1538450030346.153813500102015346.1538675010313346.1538450025346.1538112501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	99	6.5	346.1538	2250	25	346.1538	11250
102015346.1538675010313346.1538450025346.1538112501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	100	13	346.1538	4500	45	346.1538	20250
10313346.1538450025346.1538112501046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	101	13	346.1538	4500	30	346.1538	13500
1046.5346.1538225035346.1538157501056.5346.1538225035346.15381575010626346.1538900045346.153820250	102	0			15	346.1538	6750
105 6.5 346.1538 2250 35 346.1538 15750 106 26 346.1538 9000 45 346.1538 20250	103	13	346.1538	4500	25	346.1538	11250
106 26 346.1538 9000 45 346.1538 20250	104	6.5	346.1538	2250	35	346.1538	15750
	105	6.5	346.1538	2250	35	346.1538	15750
107 0 10 346.1538 4500	106	26	346.1538	9000	45	346.1538	20250
	107	0			10	346.1538	4500



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108	6.5	346.1538	2250	25	346.1538	11250
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113	0			40	346.1538	18000
114	0			60	346.1538	27000
115	0			32	346.1538	14400
116	0			32	346.1538	14400
117	0			40	346.1538	18000
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123	0			40	346.1538	18000
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