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ANALYSIS OF BEEF INVENTORY PLANNING WITH APPROACH MONTE CARLO METHOD IN CV. PUTRA SURYA

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ABSTRACT

Research with the title Analysis of Planning Beef Inventory with Monte Carlo Method Approach in CV. Putra Surya was held for 3 months, from September to November 2019. The data used in this research is secondarydata obtained from the owner of CV. Putra Surya. Based on the results of the analysis that has been done with Monte Carlo Simulation, CV. Putra Surya can plan beef supply for 2020 of 35,388 kg of beef with an average demand in one week of 707.76 kg. For expected requests or expected values of 704.96. The average demand that has been processed by the Monte Carlo Simulation method of 707.76 kg per week is not too different from the expected demand of 704.96 kg per week. There is a difference of 2.8 kg between the simulation value and the expected value and this difference can be influenced by the number of tests or experiments conducted.

Keywords:Inventory,Supplay,Demand,MonteCarlo

INTRODUCTION

Humans have a variety of needs ranging from needs at the primary, secondary and tertiary level. In general, humans have the same basic needs, namely the need for sleep, drink, eat and so forth. Talking about needs, of course humans mustmeetbasicneedsinordertobeableto live life, logically if humans do not drink and eat then they can get sick and eventually they can die. The human body needs a variety of substances for the survival of its metabolic system, these substances include carbohydrates, fats, vitamins, calcium, folic acid, iron, omega3, fiber and protein of course. Protein is divided into 2, which are sourced from animals and plants.

Fulfillment of animal protein can be fulfilled by consuming meat, in general Indonesian people are very familiar andlike to consume beef. We find a variety of processed beef in a variety of culinary delights in this beloved country so it's no wonder the increasing demand for beef will provide promising business opportunities for both cattle ranchers, beef traders ormeat sellers. On November 30, 2019, the price of beef in Jember Regency was Rp. 110,000. Basically the price of meat will fluctuate to market conditions, according the increasing demand will usually increase thesellingpriceof themeatandthiswillbe felt in the end consumer in general, the increase in beef prices usually at certain moments such the Eidal-Fitr. as on the feast Eid al-Adha and Christmas and the new year. At that moment, the demand for meat will significantly increase especially when facing the Eid and Eid al-Adha holidays. The breeders we visited during this research also stated that in those days the demand for beef was indeed very high, as evidenced in the last few years, the breeders we visited stated that they were completely out of stock.

Jember as a city that is famous for its very advanced and developing karnvalnya in various sectors ranging from the trade sector is evidenced by the development of various large supermarkets such as Lippo, the education sector is evidenced by the many public and private universities and other sectors which this certainly makes Jember as a destination city for employment and take education so that it is certain that the population in the city of Jember will increase and this is evidenced by the large number of new housing estates built where the average population is from outside the of Jember. Increasingly dense city population in а city there are of coursenegativeandpositiveimpactsand when talking about positive imp actuallythisisagoldenopportunityfor businesspeopleincludingbusinessactors about positive impact in the field of beef supply, the market is an opportunity this has been proven that thenumberofnewhousinginthedistrict

Jemberhascreatednewjobopportunities forpeoplewhowereinitiallyunemployed, oneofwhichisthatmanypeopleinJember

workasvegetabletraderstomeettheneeds ofvegetablesandmeatincludingbeefthat isneededbythecommunity,especially

housing communities who are superbusy and do not have much time to shop to markets and supermarkets such as the

GoldenMarket.

calledCV.PutraSurya,thisCVislocated onlotusroadnumber12KaliwatesJember.

 $crackers, building material transportation\\ services and cattlet rade. In the CVP utra$

Surya cattle trade business it is more for cattle fattening, then the cattle will be sold to beef slaughterers and then sold meat in other words this CV deliberately provides beef cattle to meet the demand for beef from beef slaughterers or the term inJember is the name cow slaughterhouse. This CV, founded by Mr. Farid Wahyudi, was established in early 2000 and still survives and develops until now.

The location of the cattle feedlot is in the Wuluhan sub-district of Jember district and based on research in the field of the cow fattening business owned by CV Putra Surya, it serves the demand of several butchers or cattle slaughtering business owners to further sell the meat to the end consumers. Consumers of CV Putra Surya are mostly in the southern Jember region and some are located in Jember City or downtown Jember. Based on data provided by the owner of CV Putra Surya, the following can be presented related to beef demand on a weekly basis.

Table1.BeefDemandforCVPutraSuryain

	Weekly2019		
ts	Week	RequestInKg	
	1	660	
	2	620	
	3	564	
	4	680	
	5	680	
	6	600	
	7	608	
	8	612	
	9	652	
	10	650	
	11	645	
	12	580	
	13	625	
	14	600	
	15	575	
	16	575	
	17	585	
	18	592	
	19	625	
	20	680	
	21	2000	
	22	900	
	23	854	
	24	700	
	25	655	
	26	578	
	27	600	
	28	675	
	29	825	

Week	RequestInKg
30	1500
31	775
32	745
33	550
34	550
35	572
36	565
37	670
38	525
39	525
40	586
41	600
42	1150
43	800
44	640
45	600
46	625
47	700
48	925
49	800
50	650
Total	35248

Source:SecondaryDataCVPutraSurya2019

Based on table 1 above we can see together in certain months there is an increase in demand for beef from cattle butchers or butchers. In June 2019 to coincide with Idul Fitri, the demand for meat to CV Putra Surya increased to 2000 kg or 2 tons. Continued in August 2019 the demand for beef in the amount of 1500 kg or 1.5 tons a monthcoincides with the feast of Eid al-Adha. November 2019 coincides with the Birthday of the Prophet Muhammad SAW also an increase in demand of 1150 kg and the last in December 2019 on Christmas also an increasein demandforbeefasmuchas925 kg.

CV Putra Surya itself in the year2019 provides a price range of Rp. 90,000 to Rp. 100,000 per kg for butchers or beef slaughterers so that between this CV and slaughterers mutualism symbiosis occurs, basically the slaughterers have a chance to get a sizable profit because the standard retail price of beef at the final consumer level in 2019 ranges from Rp.110,000 to Rp..115,000.Butchersorbeefslaughterers

also have a good understanding of the physical nature of cows sold by CV Surya Putra in the sense of how many cows will come out after slaughtering, based on the data in the field, there is very little difference between the clean meat provisions estimated by CV Putra Surya to simplify it can be explained in thefollowingconciselanguage.Forexample,1 cow has been estimated by CV PuteraSurya to produce 170 kg of meat, thenwhen slaughtered slaughtered and bv slaughterers, meat will get in the range of kg, itrarely happens 170kgto185 afterthe cows have produced meat in the range below 170 kg if This CV already mentions 170 Kg.

Based on table 1 above actually there is something that can be studied so as to produce a benefit in the form of convenience, especially for owners of CV Putra Surya related to inventory. However in the case of supply based on 2019 meat demand data there are certain monthswhose demand for meat has increased dramatically compared to previous months or weeks. We all know that the stock of merchandise is important for the sustainability and development of a business or business, too much inventory will actually cause costs such as maintenance costs and so forth, especially if the inventory is in the form of maintaining living things in the form of cows, it is clear that the supply excess will only cause swelling in feed and maintenance costs so that the expected cost efficiency will not be achieved. If the supply is too little and cannot meet the demand from consumers, this will also cause many problems, including switching to consumers and other providers.Basically, the inventory must be balancedin the sense that it is not excessive but can still cover or meet the demand from consumers.

Approach using the monte carlo method would be needed in predicting the inventory that must be prepared in the following years by CV Putra Surya, of course, referring to demand data that had occurred in previous years. Later it is expected that with the right prediction there will be no excess inventory and shortages as stated by the CV owner who has experienced this.

Inventories according to Mulya(2010:2014) are activities in the product ion process, in travel, raw materials and equipment used in the production processor service delivery. Talking about theactual scope of the inventory is broad, but its implementation in the field of inventory is considered more on the availability of merchandise that will be purchased by consumers and utilized by them. If we associate it with inventory on CV Putra Surva, it will be easier to obtain inventory in the form of the presence of cows which will be sold to cattle slaughterers or better known as slaughterers in Jember district. (2016: 225-227) Assauri Inventory (inventory) is the stock of an item or resource used in a company organization. The words stock are also better understood by the public merchandise savings, actually the availability of sufficient stock and can meet the needs of customers or consumers is a matter that must be prioritized because afterallasabusinessactoractuallythelack of stock must be avoided because we can make customers move to other providers or traders to meet their needs. In general, the supply must be measured in terms of inventory must be able to meet the demand of every consumer, but the inventoryshould not be excessive in the sense of too long in the warehouse, in the store, causing new problems such as problems with expired or increased maintenance costs and so forth. Measured or well planned and predicted inventory in exact numbers will support the progress of a business including the business carried out byCV PutraSurya.

Forecasting is a process forestimating how many needs in the future include needs in terms of quantity, quality, time and location needed in order to meet the demand for goods or services(Nasution, 2006). From this understanding predicting activities are highly recommended especially in business activitiesbutpredictingdoesnotmean carelessly because in forecasting methodsor other languages is forecasting that requires preliminary data to be analyzed so that we can predict related demand forecasting next year for example, the quantity must be produced, the quality that consumers want, the right location, theright time and so forth. According to Assauri (2016: 72), defining forecasting is the activity of predicting future values, on the basis of knowledge or values prepared in the past. Predictions that have been prepared may not necessarily be exactly as planned but with predictions that have been made based on past data and past experience that has been passed, it is expected that a prediction will approach the level of truth and accuracy as predicted. Basically with forecasting we will have a picture and with a picture that is already in the minds of the decision makers, it is expected that each step and decision taken will minimize the risk and support the progress of a business especially those related to the business of living things carried out by CV Putra Surya.

Monte Carlo Simulation Method according to Muslich (2009: 410) is a method used to produce an outcome from a probability distribution. The random process in Monte Carlo uses random numbers. This random number is a set of numbers that the likelihood of occurring is the same (the probability of occurrence of the number is the same) and the pattern of numbersthatarisecannotbeidentified. The random numbers used in Monte Carlo simulations are computer generated and are commonly called pseudo random numbers. Monte Carlo simulation can be defined as a real system simulation which in nature is a unit / particle, by observing the behavior of a number of units / particles that have conditions randomly according to population distribution, similar to real systemsthroughrandomnumbergeneration (Sediawan, 2013: 3). Observation of this behavior can be viewed from the demand side also where in the CV. Putra Surva related to beef demand also fluctuates

especially in certain months in which there are holidays and so forth so that by understanding the inventory, forecasting and monte carlo simulation methods can later be obtained a quick count method in determiningthe inventoryitselfpreciselyin the CV Putra Surya in Jember.

Previous research conducted by Dedrizaldi (2019) found that by applying monte carlo simulations to PT. Agrimitra Utama Persada, the planning of mineral water supply is more appropriate in terms of mineral water supply as a result of the company's production is always in a safe condition and not excessive so that the expected cost efficiency can be achieved. Bambang (2007) in his research by using monte carlo simulation method, thefindings of supply and demandmanagement can be measured or estimated to produce accuracy or close to the same related to the amount of supply and demand from consumers. Irfan (2019) found that simulation monte carlo could be implemented in the inventory of processed products that collided with expiration, with the simulation also found that the FIFO concept could be carried out on the inventory of processed products. In Kiki's research (2019) concluded that monte carlo simulation can provide benefits related to the determination of the amount of inventory needed in the future.

RESEARCHMETHODS

This research was conducted at CV. Putra Surya address at Jl. Lotus No. 12 Kaliwates Jember, all secondary data obtained at the address of the researchers, as for the field visit related to the cattle fattening business conducted by CV Putra Surya, a field visit was conducted in 3 cattle fattening sites, all of which were located in Wuluhan sub-district, Jember district.

The time of the study was carried out for3months,fromSeptembertoNovember 2019. The research began with a field visit to the location of a cattle farm owned by CV. Putra Surya, the next is a visit to the CV location to get the secondary data that we need, checking the secondary data with the original situation in the field we do in order to produce findings that are appropriate and useful for this CV and scientific development.

The data used in this research is secondarydata,thedatais obtaineddirectly from the owner of CV. Putra Surya, Mr. Farid Wahyudi. Softcopy of the data obtained in the form of quantitative data in the form of numbers related to the number of beef requests from butchers or beef slaughterers who have become consumers or regular customers of CV. This SuryaSon.

Theoveralldatasourceobtainedfrom the owner of this CV, quantitative data directlyprovidedbythe owneroftheCVin the form of softcopy files while the qualitative data researchers get from observations or direct observations at the business location.

RESULTANALYSIS

The Monte Carlo simulation method is a probabilistic simulation with the aim of finding problems with sampling from a random or random process. Experiments or experiments conducted in this method on probabilistic elements through random sampling. The following to clarifyit can be seen in table 2 below.

No.	Permin taanPer minggu	Fre kuensi	Proba bilitas	Kumulatif Proba bilitas	Interval Bilangan Acak	Bila ngan Acak	Hasil Simu lasi
1	660	1	0,02	0,02	00-02	16	612
2	620	1	0,02	0,04	03-04	77	525
3	564	1	0,02	0,06	05-06	81	600
4	680	1	0,02	0.08	07-08	41	2000

Table2DataProcessingandMonteCarloSimulationResults

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No.	Permin taan	Fre kuensi	Proba bilitas	Kumulatif Proba	Interval Bilangan	Bila ngan	Hasil Simu
	Per			bilitas	Acak	Acak	lasi
5	680	1	0.02	0.10	09-10	73	670
6	600	1	0.02	0.12	11-12	44	900
7	608	1	0.02	0.14	13-14	28	600
8	612	1	0.02	0.16	15-16	17	652
9	652	1	0.02	0.18	17-18	36	592
10	650	1	0.02	0.20	19-20	83	1150
11	645	1	0,02	0,22	21-22	39	680
12	580	1	0,02	0,24	23-24	17	652
13	625	1	0,02	0,26	25-26	71	565
14	600	1	0,02	0,28	27-28	64	745
15	575	1	0,02	0,30	29-30	47	700
16	575	1	0,02	0,32	31-31	67	550
17	585	1	0,02	0,34	33-34	88	640
18	592	1	0,02	0,36	35-36	25	625
19	625	1	0,02	0,38	37-38	20	650
20	680	1	0,02	0,40	39-40	20	650
21	2000	1	0,02	0,42	41-42	74	670
22	900	1	0,02	0,44	43-44	73	670
23	854	1	0,02	0,46	45-46	50	655
24	700	1	0,02	0,48	47-48	90	600
25	655	1	0,02	0,50	49-50	50	655
26	578	1	0,02	0,52	51-52	71	565
27	600	1	0,02	0,54	53-54	18	652
28	675	1	0,02	0,56	55-56	41	2000
29	825	1	0,02	0,58	57-58	15	652
30	1500	1	0,02	0,60	59-60	89	600
31	775	1	0,02	0,62	61-62	68	550
32	745	1	0,02	0,64	63-64	67	550
33	550	1	0,02	0,66	65-66	39	680
34	550	1	0,02	0,68	67-68	43	900
35	572	1	0,02	0,70	69-70	7	680
36	565	1	0,02	0,72	71-72	24	580
37	670	l	0,02	0,74	73-74	75	525
38	525	l	0,02	0,76	75-76	68	550
39	525	l	0,02	0,78	77-78	76	525
40	586	1	0,02	0,80	79-80	9	680
41	600	1	0,02	0,82	81-82	46	854
42	1150	1	0,02	0,84	83-84	38	625
43	800	1	0,02	0,86	85-86	39	680
44	640	1	0,02	0,88	80.00	38 71	023 565
45 46	600	1	0,02	0,90	89-90	/1	202 525
40	023	1	0,02	0,92	91-92	/8	525 800
4/ 10	/00	1 1	0,02	0,94	93-94 05 06	91 2	800 620
40	923	1	0,02	0,90	93-90 07 00	3 10	652
49 50	650	1	0,02	0,98	97-90	10	032 745
50	Total	50	1	1,00	77-100	05	25299

SourceDataProcessed: 2019

The following is a description of how to determine the frequency, determine the probability,cumulativeprobability,random number intervals, random numbers and the last is the result of the simulation.

Determine the frequency, based ontheabove tableit is clear thatthe frequency value is 1 where in the first week there is demand for beef in the amount of 660 kg, the frequencyvalue in the second week is 1 where there is demand for beef in the week amounting to 620 kg, this frequency value remains 1 to 50 weeks according to the table above.

Determining the probability is to divide the frequency value by the total frequency value in its implementation in this research means 1 divided by 50 so that it produces a probability value of 0.02. Cumulativeprobabilityisobtainedby adding a probability value of week 0 to week 1 resulting in 0.02 then probability week1isaddedtoprobabilityweek2 resultinginacumulativeprobabilityvalue of0.04andsoonuntilweek50and yielding cumulative probability 1.

The random number interval is determined by taking into account the probabilities of the table above. Therandom number interval determined is bv considering probability. the with a probability of 0.02 meaning there is a probability of 2%. If in this simulation 2digit random numbers are used totaling100 random numbers then given to the first 2 random numbers (01-02) and the last is the interval (99-100).

Determine random numbers can use the help of software in the form of Microsoft Excel by typing = Randbetween (1; 100) after that press enter and copy the formula = Randbetween (1; 100) until the 50th week then every week a number will appear. which is automatically randomized by exel. In this research random numbers 16:77;81;41;73;44;28;17;36;83;39;17;71;64;47;;6788;25;20;20;74;735;0;90;50;71;18;41;15;89;68;67;39;;437;24;75;68;76;9;46;38;;3938;71;78;97;3;18;63.

The simulation results are by determining the Kg value of the demand for meat every week by referring to the value of random numbers, for example, on week one a random number is 16 and number 16 enters arandom number interval 15-16 with a request value of 612, the simulation results on week the first is 612 kg and soon until week 50.

The next step is to determine the expected requestors et the expected value.

To determine the expected value, this can bedonebymultiplyingtheprobability

value by the demand per week, and the details in table 3 can be seen. Before we proceed to table 3 we need to convey that the probability value we give the symbol

(p) and the request value per week we give the symbol (dm).

Table3:ExpectationsofBeefDemandfor	CV
Putra Surya	

Week(dm) 1 $0,02$ 660 $13,2$ 2 $0,02$ 660 $12,4$ 3 $0,02$ 564 $11,28$ 4 $0,02$ 680 $13,6$ 5 $0,02$ 600 12 7 $0,02$ 608 $12,16$ 8 $0,02$ 652 $13,04$ 10 $0,02$ 652 $13,04$ 10 $0,02$ 652 $12,91$ 12 $0,02$ 580 $11,6$ 13 $0,02$ 625 $12,51$ 14 $0,02$ 575 $11,51$ 15 $0,02$ 575 $11,51$ 16 $0,02$ 592 $11,84$ 19 $0,02$ 680 $13,62$ 21 $0,02$ 680 $13,62$ 21 $0,02$ 675 $13,56$ 27 $0,02$ 675 $13,52$	No	Probability	Demand/	(pxdm)	
1 0.02 600 $13,2$ 2 0.02 620 $12,4$ 3 0.02 660 $13,6$ 5 0.02 680 $13,6$ 6 0.02 600 12 7 0.02 608 $12,16$ 8 0.02 612 $12,244$ 9 0.02 652 $13,04$ 10 0.02 655 13 11 0.02 645 $12,9$ 12 0.02 625 $12,5$ 14 0.02 625 $12,5$ 14 0.02 575 $11,5$ 16 0.02 575 $11,5$ 17 0.02 585 $11,7$ 18 0.02 625 $12,5$ 20 0.02 680 $13,6$ 21 0.02 600 12 22 0.02 685 $13,1$ 26 0.02 578 $11,56$	1	0.02	Week(dm)		
2 0.02 6.00 12.4 3 0.02 564 11.28 4 0.02 680 13.6 5 0.02 600 12 7 0.02 608 12.16 8 0.02 612 12.24 9 0.02 652 13.04 10 0.02 655 13 11 0.02 645 12.9 12 0.02 680 11.6 13 0.02 625 12.5 14 0.02 675 11.5 15 0.02 575 11.5 16 0.02 575 11.5 17 0.02 585 11.7 18 0.02 625 12.25 20 0.02 680 13.6 21 0.02 600 14 25 0.02 675 13.5 20 0.02 675 13.5	1	0,02	660	13,2	
3 0.02 504 $11,28$ 4 0.02 680 $13,6$ 5 0.02 680 $13,6$ 6 0.02 600 12 7 0.02 608 $12,16$ 8 0.02 612 $12,24$ 9 0.02 652 $13,04$ 10 0.02 655 $12,9$ 12 0.02 655 $12,9$ 12 0.02 625 $12,5$ 14 0.02 600 12 15 0.02 575 $11,5$ 16 0.02 575 $11,5$ 17 0.02 585 $11,7$ 18 0.02 592 $11,84$ 19 0.02 2000 40 22 0.02 655 $13,1$ 24 0.02 700 14 25 0.02 675 $13,5$ 29 0.02 825 $16,5$	2	0,02	620 574	12,4	
4 0.02 680 $13,6$ 5 0.02 680 $13,6$ 6 0.02 600 12 7 0.02 608 $12,16$ 8 0.02 652 $13,04$ 10 0.02 652 $13,04$ 10 0.02 655 $12,9$ 12 $0,02$ 645 $12,9$ 12 $0,02$ 680 $11,6$ 13 0.02 625 $12,5$ 14 0.02 575 $11,5$ 16 0.02 575 $11,5$ 17 0.02 585 $11,7$ 18 0.02 625 $12,5$ 20 0.02 680 $13,6$ 21 0.02 680 $13,6$ 21 0.02 600 14 25 0.02 675 $13,1$ 26 0.02 578 $11,56$ 27 $0,02$ 675 $13,4$ <td>3</td> <td>0,02</td> <td>504</td> <td>11,28</td>	3	0,02	504	11,28	
3 0.02 600 12 7 0.02 608 $12, 16$ 8 0.02 612 $12, 24$ 9 0.02 652 $13, 04$ 10 0.02 652 $13, 04$ 10 0.02 652 $12, 5$ 11 0.02 645 $12, 9$ 12 0.02 650 13 11 0.02 625 $12, 5$ 14 0.02 600 12 15 0.02 575 $11, 5$ 16 0.02 575 $11, 5$ 17 0.02 585 $11, 7$ 18 0.02 592 $11, 84$ 19 0.02 625 $12, 5$ 20 0.02 680 $13, 6$ 21 $0, 02$ 2000 40 22 0.02 854 $17, 08$ 24 $0, 02$ 578 $11, 56$ 27 $0, 0$	4	0,02	680	13,0	
6 0.02 600 12 7 0.02 608 $12,16$ 8 0.02 612 $12,24$ 9 0.02 652 $13,04$ 10 0.02 650 13 11 0.02 645 $12,9$ 12 0.02 580 $11,6$ 13 0.02 625 $12,5$ 14 0.02 575 $11,5$ 16 0.02 575 $11,5$ 16 0.02 575 $11,5$ 17 0.02 585 $11,7$ 18 0.02 592 $11,84$ 19 0.02 625 $12,5$ 20 0.02 680 $13,6$ 21 $0,02$ 2000 40 22 0.02 854 $17,08$ 24 0.02 775 $13,55$ 29 0.02 825 $16,5$ 30 0.02 775 $15,5$ </td <td>2</td> <td>0,02</td> <td>680</td> <td>13,6</td>	2	0,02	680	13,6	
7 $0,02$ 608 $12,16$ 8 $0,02$ 612 $12,24$ 9 $0,02$ 652 $13,04$ 10 $0,02$ 650 13 11 $0,02$ 645 $12,9$ 12 $0,02$ 625 $12,5$ 14 $0,02$ 6755 $11,5$ 16 $0,02$ 5755 $11,5$ 17 $0,02$ 585 $11,7$ 18 $0,02$ 592 $11,84$ 19 $0,02$ 625 $12,55$ 20 $0,02$ 680 $13,6$ 21 $0,02$ 2000 40 22 $0,02$ 900 18 23 $0,02$ 655 $13,1$ 26 $0,02$ 578 $11,56$ 27 $0,02$ 655 $13,5$ 29 $0,02$ 825 $16,5$ 30 $0,02$ 5775 $11,55$ 32 $0,02$ 5772 $11,44$ <td>6</td> <td>0,02</td> <td>600</td> <td>12</td>	6	0,02	600	12	
8 $0,02$ 612 $12,24$ 9 $0,02$ 652 $13,04$ 10 $0,02$ 650 13 11 $0,02$ 645 $12,9$ 12 $0,02$ 580 $11,6$ 13 $0,02$ 625 $12,5$ 14 $0,02$ 575 $11,5$ 16 $0,02$ 575 $11,5$ 17 $0,02$ 585 $11,7$ 18 $0,02$ 592 $11,84$ 19 $0,02$ 625 $12,5$ 20 $0,02$ 680 $13,6$ 21 $0,02$ 2000 40 22 $0,02$ 854 $17,08$ 24 $0,02$ 700 14 25 $0,02$ 675 $13,5$ 29 $0,02$ 675 $13,5$ 29 $0,02$ 570 11 34 $0,02$ 570 11 35 $0,02$ 572 $11,44$	/	0,02	608	12,16	
9 $0,02$ 652 $13,04$ 10 $0,02$ 650 13 11 $0,02$ 645 $12,9$ 12 $0,02$ 580 $11,6$ 13 $0,02$ 625 $12,5$ 14 $0,02$ 575 $11,5$ 16 $0,02$ 575 $11,5$ 16 $0,02$ 575 $11,5$ 17 $0,02$ 585 $11,7$ 18 $0,02$ 592 $11,84$ 19 $0,02$ 680 $13,6$ 21 $0,02$ 2000 40 22 $0,02$ 864 $17,08$ 24 $0,02$ 700 14 25 $0,02$ 675 $13,5$ 29 $0,02$ 825 $16,5$ 30 $0,02$ 775 $15,5$ 32 $0,02$ 775 $15,5$ 32 $0,02$ 570 11 34 $0,02$ 575 $11,3$ <td>8</td> <td>0,02</td> <td>612</td> <td>12,24</td>	8	0,02	612	12,24	
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17 $0,02$ 585 $11,7$ 18 $0,02$ 592 $11,84$ 19 $0,02$ 625 $12,5$ 20 $0,02$ 680 $13,6$ 21 $0,02$ 2000 40 22 $0,02$ 900 18 23 $0,02$ 854 $17,08$ 24 $0,02$ 655 $13,1$ 26 $0,02$ 655 $13,1$ 26 $0,02$ 675 $13,5$ 29 $0,02$ 675 $13,5$ 29 $0,02$ 775 $15,5$ 30 $0,02$ 745 $14,9$ 33 $0,02$ 775 $15,5$ 32 $0,02$ 775 $15,5$ 32 $0,02$ 550 11 34 $0,02$ 555 $11,3$ 37 $0,02$ 572 $11,44$ 36 $0,02$ 525 $10,5$ 39 $0,02$ <t< td=""><td>16</td><td>0,02</td><td>575</td><td>11,5</td></t<>	16	0,02	575	11,5	
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26 $0,02$ 578 $11,56$ 27 $0,02$ 600 12 28 $0,02$ 675 $13,5$ 29 $0,02$ 825 $16,5$ 30 $0,02$ 1500 30 31 $0,02$ 775 $15,5$ 32 $0,02$ 745 $14,9$ 33 $0,02$ 550 11 34 $0,02$ 550 11 35 $0,02$ 572 $11,44$ 36 $0,02$ 565 $11,3$ 37 $0,02$ 670 $13,4$ 38 $0,02$ 525 $10,5$ 40 $0,02$ 586 $11,72$ 41 $0,02$ 600 12 42 $0,02$ 600 12 44 $0,02$ 600 12 45 $0,02$ 600 12 46 $0,02$ 625 $12,5$ 47 $0,02$ 800 <td< td=""><td>25</td><td>0,02</td><td>655</td><td>13,1</td></td<>	25	0,02	655	13,1	
27 0,02 600 12 28 0,02 675 13,5 29 0,02 825 16,5 30 0,02 1500 30 31 0,02 775 15,5 32 0,02 745 14,9 33 0,02 550 11 34 0,02 572 11,44 36 0,02 565 11,3 37 0,02 670 13,4 38 0,02 525 10,5 40 0,02 586 11,72 41 0,02 600 12 42 0,02 1150 23 43 0,02 625 12,8 45 0,02 600 12 46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 650 13 AverageRequestExpectedforOne Yeek	26	0,02	578	11,56	
28 0,02 675 13,5 29 0,02 825 16,5 30 0,02 1500 30 31 0,02 775 15,5 32 0,02 745 14,9 33 0,02 550 11 34 0,02 572 11,44 36 0,02 565 11,3 37 0,02 670 13,4 38 0,02 525 10,5 39 0,02 525 10,5 40 0,02 586 11,72 41 0,02 600 12 42 0,02 1150 23 43 0,02 640 12,8 45 0,02 600 12 46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 650 13 AverageRequestExpectedforOne Veek <	27	0,02	600	12	
29 $0,02$ 825 $16,5$ 30 $0,02$ 1500 30 31 $0,02$ 775 $15,5$ 32 $0,02$ 745 $14,9$ 33 $0,02$ 550 11 34 $0,02$ 550 11 35 $0,02$ 572 $11,44$ 36 $0,02$ 565 $11,3$ 37 $0,02$ 670 $13,4$ 38 $0,02$ 525 $10,5$ 40 $0,02$ 586 $11,72$ 41 $0,02$ 600 12 42 $0,02$ 600 12 43 $0,02$ 600 12 44 $0,02$ 600 12 46 $0,02$ 625 $12,5$ 47 $0,02$ 650 13 AverageRequestExpectedforOne $704,96$	28	0,02	675	13,5	
30 $0,02$ 1500 30 31 $0,02$ 775 $15,5$ 32 $0,02$ 745 $14,9$ 33 $0,02$ 550 11 34 $0,02$ 550 11 35 $0,02$ 572 $11,44$ 36 $0,02$ 565 $11,3$ 37 $0,02$ 670 $13,4$ 38 $0,02$ 525 $10,5$ 39 $0,02$ 525 $10,5$ 40 $0,02$ 586 $11,72$ 41 $0,02$ 600 12 42 $0,02$ 600 12 43 $0,02$ 600 12 44 $0,02$ 600 12 46 $0,02$ 625 $12,5$ 47 $0,02$ 700 14 48 $0,02$ 925 $18,5$ 49 $0,02$ 650 13 <td c<="" td=""><td>29</td><td>0,02</td><td>825</td><td>16,5</td></td>	<td>29</td> <td>0,02</td> <td>825</td> <td>16,5</td>	29	0,02	825	16,5
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32 $0,02$ 745 $14,9$ 33 $0,02$ 550 11 34 $0,02$ 550 11 35 $0,02$ 572 $11,44$ 36 $0,02$ 565 $11,3$ 37 $0,02$ 670 $13,4$ 38 $0,02$ 525 $10,5$ 39 $0,02$ 525 $10,5$ 40 $0,02$ 586 $11,72$ 41 $0,02$ 600 12 42 $0,02$ 600 12 43 $0,02$ 600 12 44 $0,02$ 640 $12,8$ 45 $0,02$ 600 12 46 $0,02$ 625 $12,5$ 47 $0,02$ 700 14 48 $0,02$ 650 13 AverageRequestExpectedforOne Yeek 704,96	31	0,02	775	15,5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32	0,02	745	14,9	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33	0,02	550	11	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	34	0,02	550	11	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	35	0,02	572	11,44	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36	0,02	565	11,3	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	37	0,02	670	13,4	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	38	0,02	525	10,5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	39	0,02	525	10,5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40	0,02	586	11,72	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41	0,02	600	12	
43 0,02 800 16 44 0,02 640 12,8 45 0,02 600 12 46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 650 13 AverageRequestExpectedforOne Yeek	42	0,02	1150	23	
44 0,02 640 12,8 45 0,02 600 12 46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 800 16 <u>50</u> 0,02 650 13 AverageRequestExpectedforOne Yeek	43	0,02	800	16	
45 0,02 600 12 46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 650 13 AverageRequestExpectedforOne Yeek	44	0,02	640	12,8	
46 0,02 625 12,5 47 0,02 700 14 48 0,02 925 18,5 49 0,02 800 16 <u>50</u> 0,02 650 13 AverageRequestExpectedforOne Yeek	45	0,02	600	12	
47 0,02 700 14 48 0,02 925 18,5 49 0,02 800 16 <u>50</u> 0,02 650 13 AverageRequestExpectedforOne Yeek	46	0,02	625	12,5	
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49 0,02 800 16 50 0,02 650 13 AverageRequestExpectedforOne Yeek	48	0,02	925	18,5	
50 0,02 650 13 AverageRequestExpectedforOne 704,96	49	0,02	800	16	
AverageRequestExpectedforOne 704,96	50	0,02	<u>650</u>	13	
<u>Veek</u> 704,96	Ave	rageRequestEx	pectedforOne		
	Veek	o 1	704,96		

Source.DataProcessed :2019

INTERPRETATION

Based on the results of theanalysis that has been done with Monte Carlo

Simulation, CV. Putra Surya can plan beef supply for 2020 of 35,388 kg of beef with an average demand in one week of 707.76 kg. For expected requests or expected values of 704.96. The average demand that has been processed by the Monte Carlo Simulation method of 707.76 kg per weekis not too different from the expected demand of 704.96 kg per week. There is a difference of 2.8 kg between the simulation value and the expected value and this difference can be influenced bythe number of tests or experiments conducted.

Most important for CV. Putra Suryais preparing in advance related to the surge in demand for meat in certain months, for example on Eid al-Fitr which is sometimes still lack of meat supply and still bring in from other partners who have similar businesses. Bringing in the approachingday when the increase in demand for meat is soaring high certainly CV Putra Surva will get a high price and this is certainlyless profitable CV Putra Surya. This research provides information to CV. Putra Surya to always procure inventory more timely to avoid losses and always maintain the availability of meat supplies, but without excess in the sense that it is always enough.

The findings of previous research with this research are almost the same which essentially is to maintain the continuity of the availability of sufficient supply, but in this research there is renewal,

which is more towards the strategy of procurement of beef supplies given the cow's price also fluctuates and needs accuracy in finding prospective cows for cattle. fattened up and it takes time so the timeliness in preparing supplies is crucial, so the amount to be prepared for inventory must also be carefully calculated. With the simulationthathasbeendoneofcourseitis quite helpful regarding what should bedone by CV Putra Jaya.

CONCLUSION

Based on the results of the analysis that has been done with Monte Carlo

Simulation, CV. Putra Surya can plan beef supply for 2020 amounting to 35,388 kg. Expecteddemandorexpectedvalueof

704.96. The average demand that has been processed by the Monte Carlo Simulation method of 707.76 kg per week is not too different from the expected demand. There is a difference of 2.8 kg between the simulation value and the expected valueand this difference can be influenced by the number of tests or experiments conducted.

IMPLICATIONS

CV. Putra Surya can use monte carlo simulation in planning beef supply in the following years. Most important for CV. Putra Surya is preparing in advance related to the surge in demand for meat in certain months, forexampleonEid al-Fitrwhich is sometimesstilllackofmeatsupplyandstill bring in from other partners who have similar businesses.

Expected CV. Putra Surya to always procure inventory more timely to avoid losses and always maintain the availability of meat supplies, but without excess in the sense that it is always enough.

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