

STUDIES REGARDING THE DURATION OF MAINS MAINTENANCE ACTIVITIES ON CHINCHILLAS BREAD IN INTENSIV SYSTEM

STUDII PRIVIND DURATA PRINCIPALELOR ACTIUNI DE INTRETINERE A CHINCHILLELOR CRESCUTE ÎN SISTEM INTENSIV

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The study was made in 2008 and his purpose was to establish the period of time necessary to execute the main services in a chinchilla farm in order to do the standardisation of work and to establish the payment

It has been determined the period of time necessary for giveing the hay, the fodder, the water, checking the animal births, spreading out the sand, etc., wich was 3 hours and 25 minutes.

3 workers participated in this daily program, so wich one of them worked for 3 hours and 8 minutes every day.

Keywords: daily, maintenance, chinchilla, program, time.

Materials and Methods

The research has been made at the S.C. FALNIC S.R.L. located in the commune Sag, Timis county.

The farm is divided as it follows:

- the animals sheds
- the hay storing place
- the storing place for the fodder and the sand
- the slaughter room
- the storing place for the cages
- the droppings baluster
- the lunch room

They are 8 animals sheds as it follows:

- the shed no. 1 used for the growth, contains 228 cages
- the shed no. 2 used for reproduction, contains 240 cages
- the shed no. 3 used for reproduction, contains 240 cages
- the shed no. 4 used for reproduction, contains 225 cages

- the shed no. 5 used for the growth, contains 64 cages
- the shed no. 6 used for the growth, contains 101 cages
- the shed no. 7 used for the growth, contains 291 cages
- the shed no. 7 used for the growth, contains 225 cages

The working program is 8 hours and there are 3 employees who fulfil the daily tasks in the farm.

It has been determined the period of time necessary for the most important daily tasks to be made, using a Casio chronometer for 3 days consecutively. This tasks were:

- administrating the hay
- administrating the fodder
- administrating and checking of the water
- administrating the sand
- checking the animalbirths
- cleaning
- the weaning

The hay is stored 50 meters far from sheld and it is transported using a minitruck and distributed in each shed.

The fodder is stored ia a dry and ventilated room. Workers take the fodder using buckets and they administrated manually in each cage.

It is verified the level of water and it is completed if it is necessary.

The sand is spread out daily half of spoon per day.

The animal births are verified daily and if there are females who gave birth, a newspaperper will be put under the kittens, and the cold kitten get worm.

The cleaning is made every other day on the floor and once in a month under each cage.

Results and Discussion

Table 1

The period of time for giving the hay

Specification	Shed 1	Shed 2	Shed 3	Shed 4	Shed 5	Shed 6	Shed 7	Shed 8
Number of cages	228	240	240	225	64	101	291	225
Administration time D1 (min)	24.15	15.26	16.14	18.08	6.05	5.57	15.38	12.23
Administration time D2 (min)	20.15	18.15	16.1	17.43	7.18	8.12	13.47	10.38
Administration time D3 (min)	23./18	17.49	14.11	16.21	9.25	6.49	16.53	13.26
Time/cage (sec)	6	4.3	3.9	4.6	7.3	4.2	3.1	3
n	3	3	3	3	3	3	3	3
X	22.49	17.26	15.45	17.24	7.49	7.12	15.12	12.35
S	2.01	1.51	1.16	0.94	1.62	1.29	1.54	1.45
SX	1.20	0.87	0.67	0.54	0.93	0.74	0.89	0.84
CV	9.30	8.92	7.51	5.50	21.65	19.19	10.21	12.20
SX%	5.37	5.15	4.33	3.17	12.50	11.08	5.89	7.04

It has been noticed that giving the hay lasts approximately 4.5 seconds/cage.

Table 2

The period of time necessary for giving the fodder

Specification	Shed 2	Shed 3	Shed 4
Number of cages	240	240	225
Administration time D1 (min)	4.16	5.35	4.24
Administration time D2 (min)	7.23	5.48	5.11
Administration time D3 (min)	5.14	6.14	5.21
Time/cage (sec)	1.4	1.5	1.4
n	3	3	3
X	5.51	6.05	5.25
S	1.56	0.42	0.53
SX	0.90	0.24	0.30
CV	28.45	7.48	10.99
SX%	16.43	4.32	6.34

The period of time necessary for giving the fodder in the youth shed is 1.4 seconds/cage.

Table 3

The period of time necessary for checking the water

Specification	Shed 1	Shed 2	Shed 3	Shed 4	Shed 5	Shed 6	Shed 7	Shed 8
Number of cages	228	240	240	225	64	101	291	225
Administration time D1 (min)	0.58	0.43	0.44	0.38	0.30	1.16	1.18	0.54
Administration time D2 (min)	0.45	0.43	0.48	0.45	0.43	1.33	1.26	1.02
Administration time D3 (min)	0.49	0.54	0.57	0.43	0.39	1.01	1.07	1.21
Time/cage (sec)	0.2	0.1	0.2	0.1	0.5	0.7	0.2	0.4
n	3	3	3	3	3	3	3	3
X	0.50	0.46	0.49	0.42	0.37	1.16	1.17	1.32
S	0.06	0.06	0.06	0.03	0.06	0.16	0.09	0.34
SX	0.03	0.03	0.03	0.02	0.03	0.09	0.05	0.19
CV	13.14	13.60	13.40	8.58	17.83	13.72	8.15	37.39
SX%	7.58	7.85	7.73	4.95	10.29	7.92	4.70	21.59

The period of time necessary for checking the water equipment and for supplementing the tank is approximately 1 minute/shed.

Table 4

Weaning

Specification	S 3	S 3	S 3	S 3	S 3	S 3	S 3	S 3
No. of kitten	2	2	2	1	1	2	2	12
Weaning time (min)	1.17	1.30	1.47	2	1.16	2.28	1.46	4.52
Weaning time/kitten (min)	0.38	0.45	0.53	2	1.16	1.14	0.53	-

Weaning lasts for about 1 minut/kitten according to the table 4.

Table 5

The period of time necessary for checking the births

Specification	S 2	S 3	S 4
Period of time	5.40	19.48	8.32

The period of time necessary for: checking the animal births, the oxytocin treatment of the females who gave birth and cutting the fangs is 10 minutes/shed.

Table 6

Duration of sand administration

Specification	Shed 1	Shed 2	Shed 3	Shed 4	Shed 5	Shed 6	Shed 7	Shed 8
Number of cages	228	240	240	225	64	101	291	225
Administration time D1 (min)	10.17	21.39	24.27	48.38	16.50	7.08	50.25	71.26
Administration time D2 (min)	9.06	27.25	38.21	27.36	11.10	10.44	18.18	24.41
Administration time D3 (min)	8.16	23.14	31.45	26.55	17.32	12.35	36.26	45.36
Time/cage (sec)	2.4	6.1	7.8	9.1	14.6	6.2	7.3	12.5

Cleaning the bathing coffrets and spreading out the sand lasts about 7-8 seconds/cage according to table 6.

Table 7

The time necessary for cleaning

Specification	Shed 1	Shed 2	Shed 3	Shed 4	Shed 5	Shed 6	Shed 7	Shed 8	Loby
Number of cages	228	240	240	225	64	101	291	225	-
Necessary time D1 (min)	9.06	4.34	7.50	8.14	7.59	8.12	9.17	9.14	22.32
Necessary time D2 (min)	8.35	6.15	8.13	7.20	8.34	9.07	9.20	8.48	24.15
Necessary time D3 (min)	10.23	7.25	6.11	7.15	8.49	10.3	8.15	10.04	26.11
Time/cage (sec)	2.4	1.6	1.8	2	7.7	5.5	1.9	2.4	-

Cleaning lasts for 7-8 minutes/shed according to the table 7.

Conclusions

The fulfilment of all the tasks was realised in approximately 9 hours and 25 minutes.

Each task lasted as it follows:

- the period for giving the hay is 1 hour and 55 minutes;
- the period for giving the fodder is 17 minutes and 21 seconds;
- the period of time for checking the water is 6 minutes and 25 seconds;
- the time necessary for weaning is 15 minutes and 36 seconds;
- the time necessary for checking the animal births is 25 minutes and 28 seconds;
- the time necessary for administrating the sand and cleaning the coffrets is 90 minutes and 20 seconds;
- the time necessary for cleaning is 3 hours.

Each worker gets 3 hours and 8 minutes of work per day of the total period of 9 hours and 25 minutes.

86.38% of this period of time (8 hours and 5 minutes) is used for giving the hay, spreading out the sand and for the cleaning. The rest of 13.62% of the period of time (1 hour and 20 minutes) is used for giving the fodder for checking the water, the weaning and for checking the animal births.

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