



**Nombre de alumno: Nadia Angélica Pérez Flores.**

**Nombre del profesor: Abel Estrada Dichi.**

**Nombre del trabajo: Cartas de control X-R.**

**Materia: Control de calidad.**

**Grado: 7°**

**Grupo: Medicina veterinaria y zootecnia.**

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14	20.8	20.004	19.5	22.13
15	21.762	20.12	20	18.08

Diagram showing a circle with a horizontal line through its center. Annotations include "suma 4 horizontal" and "7/2 = 4".

Val max - val min

Dias	Rumen	nutramn	Bovilaza	Mineral	Media	Rango
1	0.167	0.102	0	-1.107	-0.2095	1.2740
2	-0.633	-0.5	1	-1	-0.2832	2
3	-1.465	0.362	0.167	-0.533	-0.3672	1.827
4	-0.672	0.665	0	0.402	-0.0505	1.674
5	0.147	0.092	0.205	0.689	0.2832	0.597
6	1.016	-0.063	0.3	1.035	0.5720	1.0980
7	-0.108	0.8	0	-0.419	0.0682	1.2190
8	0.016	0.205	0.13	-1.649	-0.3245	1.8540
9	-1	0.319	-0.1	-1.544	-0.5812	1.8630
10	-2.166	-0.11	1	0.134	-0.2855	3.1660
11	2.058	0.179	0	1.547	0.9460	2.0580
12	0.4	1.021	0.013	1.341	0.6937	1.3280
13	0.167	0.126	0	2.17	0.6157	2.17
14	0.8	0.004	-0.500	2.130	0.6085	2.63
15	1.762	0.12	0	-1.982	-0.0250	3.7440
					0.110713333	1.860133333

101.02	20.05	20.05	15.78	15.10	15.10
102.02	20.05	20.05	15.78	15.10	15.10
103.02	20.05	20.05	15.78	15.10	15.10
104.02	20.05	20.05	15.78	15.10	15.10
105.02	20.05	20.05	15.78	15.10	15.10
106.02	20.05	20.05	15.78	15.10	15.10
107.02	20.05	20.05	15.78	15.10	15.10
108.02	20.05	20.05	15.78	15.10	15.10
109.02	20.05	20.05	15.78	15.10	15.10
110.02	20.05	20.05	15.78	15.10	15.10

Norma



Promedio de  
med 19 de med 19

Carta X

$LCL = -1.245302$

$\bar{x} = 0.11071$

$UCL = 1.4667$

$LCL = \bar{x} - (A_2 \bar{R})$

$LCL = 0.11071 - (0.729 \times$

$1.8601)$

$UCL = \bar{x} + (A_2 \bar{R})$

$UCL = 0.11071 + (0.729$

$\times 1.8601)$

Carta R

$LCL = 0$

$R\text{-bar} = 1.86013333$

$UCL = 4.2451$

Promedio de  
Rango

$LCL = D_3 \bar{R}$

$LCL = 0 \times 1.8601$

$LCL = 0$

$UCL = D_4 \bar{R}$

$UCL = 2.2822 \times 1.8601$

$UCL = 4.2451$

Plataforma







