

Table S1. Economic cost calculation models

(The model followed according to Nascimento, R.A., Luiz, V.T., Mendes, C.M.I., Giannetti, B.F., Gameiro, A.H., 2022. Sustainability comparison of commercial Brazilian organic and conventional broiler production systems under a 5SEnSU model perspective. J. Clean. Prod. 377. <https://doi.org/10.1016/j.jclepro.2022.134297>)

Notes	Items	Data Units	References
Q_1			
	<i>Zootechnical information</i>		
	Water consumption =	35.58 m ³	Own data **
	Initial weight =	0.042 kg	Own data
	Final weight =	2,650 kg	Miele et al. (2010)
	Final age =	42 d	Miele et al. (2010)
	Flock =	6.27 un/yr	Miele et al. (2010)
	Interval =	16 d	Own data
	Bedding reuse =	6 times	Miele et al. (2010)
	Maximum density =	13 birds/m ²	Own data
IB	Starting number of birds =	16,000 un/flock	Miele et al. (2010)
	Price paid per broiler =	0.88 R\$/bird	Own data
	<i>Mortality</i>		
$M1$	Initial mortality =	- %	Own data
$M2$	Growth mortality =	- %	Own data
$M3$	Final mortality =	4 %	Miele et al. (2010)
	Mortality = $(M1)+(M2)+(M3)$		
	$= (\underline{\hspace{2cm}}\%)+(\underline{\hspace{2cm}}\%)+(\underline{\hspace{2cm}}\%)$		
	= 4 %		Parameter

SBr

$$\begin{aligned}\text{Total of broilers} &= (IB) * 1 - (\text{Mortality}) \\ &= (\underline{\text{un/flock}}) * 1 - (\underline{\%}) \\ &= \quad \quad \quad 15,360 \text{ un/flock}\end{aligned}$$

Parameter

$$\begin{aligned}\text{Body weight gain} &= (\text{Final weight}) - (\text{Initial weight}) \\ &= (\underline{\text{kg/bird}}) - (\underline{\text{kg/bird}}) \\ &= \quad \quad \quad 2,61 \text{ kg/bird}\end{aligned}$$

Parameter

Feed consumption

$$\begin{aligned}\text{Initial feed consumption} &= \quad \quad \quad 1.149 \text{ kg/bird} \\ \text{Growth feed consumption} &= \quad \quad \quad 1.985 \text{ kg/bird} \\ \text{Final feed consumption} &= \quad \quad \quad 1.510 \text{ kg/bird}\end{aligned}$$

Miele et al. (2010)

Miele et al. (2010)

Miele et al. (2010)

$$\begin{aligned}\text{Total initial feed consumption} &= \\ &= (\text{Initial consumption}) * (IB) * (1 - M1) \\ &= (\underline{\text{kg/bird}}) * (\underline{\text{un/flock}}) * (1 - \underline{\%})\end{aligned}$$

Parameter

$$\begin{aligned}\text{Total growth feed consumption} &= \quad \quad \quad 16,847.10 \text{ kg} \\ &= (\text{Consumption growth}) * (IB) * (1 - M2) \\ &= (\underline{\text{kg/bird}}) * (\underline{\text{un/flock}}) * (1 - \underline{\%})\end{aligned}$$

Parameter

$$\begin{aligned}\text{Total final feed consumption} &= \quad \quad \quad 29,025.46 \text{ kg} \\ &= (\text{Final consumption}) * (IB) * (1 - M3) \\ &= (\underline{\text{kg/bird}}) * (\underline{\text{un/flock}}) * (1 - \underline{\%})\end{aligned}$$

Parameter

$$\begin{aligned}\text{Total feed consumption} &= \quad \quad \quad 21,990.43 \text{ kg} \\ &= (IFi) + (GFi) + (FFi) \\ &= (\underline{\text{kg/bird}}) + (\underline{\text{kg/bird}}) + (\underline{\text{kg/bird}}) \\ &= \quad \quad \quad 67,862.99 \text{ kg}\end{aligned}$$

Parameter

Parameter

Fi

Q₂ Depreciation and maintenance cost

a

it₁

Building

$$\begin{aligned}\text{Building area} &= \quad \quad \quad 1,200 \text{ m}^2 \\ \text{Basic Unit Cost (CUB/SP)} &= \quad \quad \quad 417.78 \text{ R$/m}^2\end{aligned}$$

Own data
SINDUSCON-SP, 2007

Initial value =	(Area)*(CUB)	
=	(__m^2) *(__R\$/m^2)	
=	501,336.00 R\$	Parameter
Residual rate =	7.6 %	Miele et al. (2010)
Useful life =	40 yr	CONAB, 2010 p. 57 ^b
Residual value =	(Initial value) * (Residual rate)	
=	(__R\$) * (__%)	
=	38,101.54 R\$	Parameter
Depreciation =	(Initial value) - (Residual value) / (Useful life)	
=	(__R\$) - (__R\$) / (__year)	
=	11,580.86 R\$/year	Parameter
Maintenance rate =	1 %	Miele et al. (2010)
Maintenance cost =	(Initial value) *(Maintenance rate) / (Useful life)	
=	(__R\$) * (__%) / (__year)	
=	125.33 R\$/year	Parameter

*it*₃

Equipment

Initial value =	245,654.64 R\$	Own data
Residual rate =	5.6 %	Miele et al. (2010)
Useful life =	12 yr	CONAB, 2010 p. 52-7 ^a
Residual value =	(Initial value) * (Residual rate)	
=	(__R\$) * (__%)	
=	13,756.66 R\$	Parameter
Depreciation =	(Initial value) - (Residual value) / (Useful life)	
=	(__R\$) - (__R\$) / (__year)	
=	19,324.83 R\$/year	Parameter
Maintenance rate =	1 %	Own data
Maintenance cost =	(Initial value) *(Maintenance rate) / (Useful life)	
=	(__R\$)(__%) / (__year)	
=	204.71 R\$/yr	Parameter

Q_{2a}	<i>Depreciation</i>	Total depreciation cost = $\sum(i=3)^1(\text{Depreciation } it_{1...3})$ = $\sum(i=3)^1(\underline{\text{R\$}/\text{year}})$ = $30,905.69 \text{ R\$}/\text{year}$	Parameter
		Total depreciation cost per batch = $(Q_{2a}) / (\text{Flock})$ = $(\underline{\text{R\$}/\text{year}}) / (\underline{\text{flocks/year}})$ = $4,929.14 \text{ R\$}/\text{flocks}$	Parameter
Q_{2b}	<i>Maintenance</i>	Total maintenance cost = $\sum(i=3)^1 (\text{Maintenance cost } it_{1...3})$ = $\sum(i=3)^1(\underline{\text{R\$}/\text{year}})$ = $330.05 \text{ R\$}/\text{year}$ = $(Q_{2b}) / (\text{flock})$ = $(\underline{\text{R\$}/\text{year}}) / (\underline{\text{flock/year}})$ = $52.64 \text{ R\$}/\text{flock}$	Parameter Parameter
		Fixed capital = $\sum(\text{Initial value } it_{1...3}) +$ (Building) = $(\sum(i=3)^1(\underline{\text{R\$}})) +$ $(\underline{\text{R\$}}) + (\underline{\text{R\$}})$ = $746,990.64 \text{ R\$}$	Parameter
Q_3	<i>Manpower cost</i>		
Q_{3a}	<i>Registered manpower</i>	Price paid per broiler = $0.88 \text{ R\$}/\text{bird}$ Total of broilers = $15,360 \text{ birds}$	Own data
P_{flock}		Payment per flock = $(\text{Total of broilers}) * (\text{Price paid})$ = $(\underline{\text{un}}) * (\underline{\text{R\$}/\text{bird}})$ = $13,516.80 \text{ R\$}/\text{flock}$	c
		Wage	d

	Number of employees =	1 un	Own data
	Wage (pro-labore) =	1,500.00 R\$/flock	Own data
	Registered manpower =	$\sum_{i=2}^1 (P_{flock}; \text{ Registered manpower})$	
		$\sum_{i=2}^1 (\underline{\text{R}}$/flock); (\underline{\text{R}}$/flock)$	
		= 15,016.80 R\$/flock	Parameter
Q_{3b}	<i>Catching services</i>		
	Catching service =	0.08 R\$/bird	Own data
	Total of broilers =	15,360 birds	see Q_1 ; SBr
	Catching service cost =	(Total of broilers)*(Catching service)	
		= (<u>birds</u>)*(<u>R\$/bird</u>)	
		= 1,228.80 R\$/flock	Parameter
Q_{3c}	<i>Technical assistance</i>		
	Wage =	3,577.50 R\$/month	Own data
	Number of visits =	3 times/week	Own data
	Time spent =	2 hr/visit	Own data
	Worked hours =	160 hr/month	e
	Flocks =	6.27 flocks/year	
	Months per year =	12 months	
	Technical assistance cost (TAc) =	((Wage)*(Visits)*(Time spent)/ (Hours))(12)/(Flocks) ((<u>R\$/month</u>) * (<u>times/month</u>) * (<u>hr/visit</u>))/ = (160))(12)/(_flocks /yr) = 256.76 R\$/flock	Parameter
	Manpower cost =	(Q_{3a})+(Q_{3b})+(Q_{3c}) = (<u>R\$/flock</u>)+(<u>R\$/flock</u>)+(<u>R\$/flock</u>) = 16,502.36 R\$/flock	Parameter

<i>Q₄</i>	<i>One-day chicks</i>	Purchased chicks = Price paid per chicks = = (Purchased chicks)*(Price paid) = (<u>un/flock</u>)*(<u>R\$/chick</u>) = 12,800.00 R\$/flock	16,000 un/flock 0.80 R\$/chick Parameter	Own data Own data Parameter
<i>Q₅</i>	<i>Nutrition</i>			
	<i>Initial phase</i>			
<i>IFI</i>	Initial feed consumption = Corn = Soybean meal 45% = Price paid corn = Price paid soybean meal 45% = Consumption per ingredient = = (<i>IFI</i>) * (ingredient) * (price paid) = (<u>kg</u>) * (<u>%</u>) * (<u>R\$/kg</u>) Corn = Soybean meal 45% = Initial nutrition cost = = (<u>R\$/phase</u>) + (<u>R\$/phase</u>) = 10,228.86 R\$/phase 6,618.24 R\$/phase (Corn)+(Soybean meal 45%) = (<u>R\$/phase</u>) + (<u>R\$/phase</u>) = 14,194.30 R\$/phase	16,847.10 kg 55.64 % 36.00 % 0.58 R\$/kg 1.25 R\$/kg Parameter Parameter Parameter	Miele et al. (2010) Miele et al. (2010) Miele et al. (2010) Own data Own data Parameter Parameter Parameter	
<i>NCi</i>				
<i>GFi</i>	<i>Growth phase</i>	Feed consumption growth = Corn = Soybean meal 45% = Price paid corn = Price paid soybean meal 45% = Consumption per ingredient = = (<i>GFi</i>) * (ingredient) * (price paid) = (<u>kg</u>) * (<u>%</u>) * (<u>R\$/kg</u>)	29,025.46 kg 58.19 % 33.20 % 0.58 R\$/kg 1.25 R\$/kg Parameter	Miele et al. (2010) Miele et al. (2010) Miele et al. (2010) Own data Own data Parameter

	Corn =	18,481.14 R\$/phase	Parameter
	Soybean meal 45% =	10,544.32 R\$/phase	Parameter
NCg	Growth nutrition cost =	(Corn)+(Soybean meal 45%)	
		= (__ R\$/phase)+(__ R\$/phase)	
		= 23,876.11 R\$/phase	Parameter
	<i>Final phase</i>		
FFi	Final feed consumption =	21,990.43	Miele et al. (2010)
	Corn =	62.43 %	Miele et al. (2010)
	Soybean meal 45% =	28.59 %	Miele et al. (2010)
	Price paid corn =	0.58 R\$/kg	Own data
	Price paid soybean meal 45% =	1.25 R\$/kg	Own data
	Consumption per ingredient =	(FFi) * (ingredient) * (price paid)	
		(__kg) * (__%) * (__R\$/kg)	
	Corn =	15,083.09 R\$/phase	Parameter
	Soybean meal 45% =	6,907.34 R\$/phase	Parameter
NCf	Final stage nutrition cost (NCf) =	(Corn)+(Soybean meal 45%)	
		= (__ R\$/phase)+(__ R\$/phase)	
		= 21,990.43 R\$/phase	Parameter
	Total Nutrition Cost (TNC) =	(NCi)+(NCg)+(NCf)	
		= (__R\$/phase)+(__R\$/phase)+(__R\$/phase)	
		= 60,973.04 R\$/flock	Parameter

Q₆ Health cost

Q _{6a}	<i>Cleaning and sanitization</i>		
	<i>Sanitizer</i>		
	Purchased =	2.436 kg/flock	Own data
	Used =	2.436 kg/flock	Own data
	Price paid =	27.00 R\$/item	Own data

	$\begin{aligned} \text{Item cost} &= (\text{Used}) * (\text{Price}) / (\text{Purchased}) \\ &= (\text{kg/flock}) * (\text{R$/item}) / (\text{kg/flock}) \\ &= 27.00 \text{ R$/flock} \end{aligned}$	Parameter
	<i>Detergent</i>	
	Purchased = 1.560 kg/flock	Own data
	Used = 1.560 kg/flock	Own data
	Price paid = 27.00 R\$/item	Own data
	$\begin{aligned} \text{Item cost} &= (\text{Used}) * (\text{Price}) / (\text{Purchased}) \\ &= (\text{kg/batch}) * (\text{R$/item}) / (\text{kg/flock}) \\ &= 27.00 \text{ R$/flock} \end{aligned}$	Parameter
	$\begin{aligned} &= (\text{Disinfectant}) + (\text{Detergent}) \\ &= (\text{R$/flock}) + (\text{R$/flock}) \\ &= 54.00 \text{ R$/flock} \end{aligned}$	Parameter
<i>Q_{6b}</i>	<i>Analysis</i>	
	<i>Water analysis</i>	
<i>Q_{6b1}</i>	Declared value = 0 R\$/year	Own data
	Number of flocks/year = 0 flocks/year	Own data
	$\begin{aligned} \text{Water analysis cost} &= (\text{Declared value}) / (\text{Flocks}) \\ &= (\text{R$/year}) / (\text{n/year}) \\ &= 0 \text{ R$/batch} \end{aligned}$	Parameter
<i>Q_{6b2}</i>	<i>Salmonella sp analysis.</i>	
	Declared value = 0 R\$/batch	Own data
<i>Q_{6c}</i>	<i>Rodent control</i>	
	Declared value = 0 R\$/year	Own data
	Number of flock/year = 6.27 Flocks/year	Own data
	$\begin{aligned} \text{Rodent control cost} &= (\text{Declared value}) / (\text{Flocks}) \\ &= (\text{R$/year}) / (\text{un/year}) \end{aligned}$	

	=	0 R\$/flocks	Parameter
Analysis cost =	(Analysis of <i>Salmonella</i> sp.) + (Water analysis cost)		Parameter
	= (<u>R\$/flock</u>) + (<u>R\$/flock</u>)		

Total health cost =	(Q_{6a}) + (Q_{6b}) + (Q_{6c})		
	= (<u>R\$/flock</u>) + (<u>R\$/flock</u>) + (<u>R\$/flock</u>)		
	= 54.00 R\$/flock		Parameter

Q_7 Energetics

It_1

<i>Diesel</i>			
Quantity =	0 L/flock		Own data
Price paid =	0 R\$/L		Own data
= (Quantity) * (Price)			
= (<u>L/flock</u>) * (R\$/L)			
= 0 R\$/flock			Parameter

It_2

<i>Gasoline</i>			
Quantity =	0 L/flock		Own data
Price paid =	0 R\$/L		Own data
= (Quantity) * (Price)			
= (<u>L/flock</u>) * (R\$/L)			
= 0 R\$/batch			Parameter

It_3

<i>Firewood</i>			
Quantity =	13 m^3/flock		Own data
Price paid =	90 R\$/m^3		Own data
= (Quantity) * (Price)			
= (<u>m^3/flock</u>) * (<u>R\$/m^3</u>)			

	=	33.33 R\$/flock	Parameter
Q₉	<i>Insurances, certifications and rates</i>		
Q_{9a}	<i>Environmental license</i>		
	Declared value =	125.59 R\$/yr	Own data
Q_{9b}	<i>Insurance</i>		
	Buildings value =	501,336.00 R\$	Own data
	Rate =	0.36 %	Own data
	= (Fixed assets) * (Rate)		
	= 1,804.81 R\$/yr		
Q_{9c}		= (insurance)+(Environmental license) / (Flocks)	
		= (__R\$/yr)+(__R\$/yr) / (__flocks/yr)	
		= 307.88 R\$/flock	
Q_{9d}	<i>Funrural</i>		
	Declared rate =	2.30 %	Own data
P_{flock}	Flock payment =	13,516.80 R\$/flock	see Q ₃ ;P _{flock}
	= (P _{flock})(Rate)		
	= (__R\$/flock)(__%)		
	= 310.89 R\$/flock		Parameter
Q₁₀	<i>Transport cost</i>		
Q_{10a}	<i>Transport Farm - Agroindustry</i>		
	Declared value =	0.23 R\$/bird	Own data
	Number of birds delivered =	15,360 birds	see Q ₁ ;SBr
	= (Declared value)* (N birds)		
	= (__R\$/bird)*(__un/flock)		

	=	3,548.16 R\$/flock	Parameter
<i>Q_{10b}</i>	<i>Feed transport</i>		
	Declared value =	0.04 R\$/kg feed	Own data
<i>F₁</i>	Starter feed consumption =	1.149 kg/bird	Own data
<i>F₂</i>	Feed consumption growth =	1.985 kg/bird	Own data
<i>F₃</i>	Final feed consumption =	1.510 kg/bird	Own data
<i>SBr</i>	Number of chickens delivered =	15,360 un/flock	see <i>Q₁</i> ; <i>SBr</i>
	Total feed consumption =	$\sum(i=3)^1(F_{1..3})*(SBr)$	
		= $\sum(i=3)^1(_\text{kg/bird.flock})*(_\text{un/flock})$	
		= 2,567.95 kg/flock	Parameter
		= (Declared value) *(Feed consumption)	
		= (<u>R\$/kg feed</u>)*(<u>kg/batch</u>)	
		= 3,409.79 R\$/flock	Parameter
	Transport cost =	(<i>Q_{10a}</i>)+(<i>Q_{10b}</i>)	
		= (<u>R\$/flock</u>)+(<u>R\$/flock</u>)	
		= 6,116.11 R\$/flock	

Q₁₁ Miscellaneous costs

<i>EMr</i>	Estimated eventual rate (EMr) =	3 %	Miele et al. 2010
<i>Q_{6a}</i>	Cleaning and sanitization =	54.00 R\$/flock	Parameter
<i>Q_{3c}</i>	Technical assistance =	256.76 R\$/flock	Parameter
<i>Q₁₀</i>	Transport =	6,116.11 R\$/flock	Parameter
<i>Q₄</i>	Day-old chicks =	12,800.00 R\$/flock	Parameter
<i>Q₅</i>	Nutrition =	60,973.04 R\$/flock	Parameter
<i>Q_{6b}</i>	Analysis =	0 R\$/flock	Parameter
<i>Q₇</i>	Energetics=	2,502.00 R\$/flock	Parameter
<i>Q₈</i>	Bedding =	33.33 R\$/flock	Parameter

Q_{11a}	Miscellaneous cost - Producer = $\sum(i=3)^1(Q_{6a,7,8})*(EMr)$ = $\sum(i=3)^1(\underline{R\$/flock}) * (\underline{\%})$ = 77.68 R\$/flock	Parameter
Q_{11b}	Miscellaneous cost - Agribusiness = $\sum(i=5)^1(Q_{3c,4,5,6b,10})*(EMr)$ = $\sum(i=5)^1(\underline{R\$/flock}) * (\underline{\%})$ = 2,404.38 R\$/flock	Parameter
	Total miscellaneous cost = $(Q_{11a}) + (Q_{11b})$ = $(\underline{R\$/batch}) + (\underline{R\$/flock})$ = 2,482.06 R\$/flock	Parameter
		Parameter

Q_{12} *Production factor costs*

Q_{12a}	<i>Land factor cost</i>		
	Flock =	6.27 flocks/year	Own data
	Land price =	0.00 R\$/m ²	Own data
	Area =	1,200 m ²	Own data
	Interest rate =	6.00 %/yr	SELIC rate
	IGP-DI Index =	2.22 %	Own data
	Land factor cost = $(\text{Land price}) * (\text{Area}) * (\text{Rate}) -$ $(\text{Land price}) * (\text{Area}) * (\text{IGP-DI})$ = $(\underline{R\$/m^2}) * (\underline{m^2}) * (\underline{\%}) -$ $(\underline{R\$/m^2}) * (\underline{m^2}) * (\underline{\%})$	0.00 R\$/flock	Parameter
Q_{12b}	<i>Fixed capital cost</i>		
	Flock =	6.27 one/year	Own data
	Fixed assets =	746,990.64	Own data

	Interest rate =	6 %/yr	SELIC rate
	Fixed capital cost (FC) =	(Fixed assets) * (Rate) / (Flocks)	j
	=	(__R\$) * (__%) / (__flocks/year)	
	=	7,148.24 R\$/flock	Parameter
Q_{12c}	<i>Working capital cost</i>		
	<i>Labor</i>		
Q_{3a}	Registered manpower =	3,497.06 R\$/flock	Parameter
Q_{3a1}	Payment per flock =	13,313.70 R\$/flock	
Q_{3b}	Catching services =	3,944.80 R\$/flock	Parameter
Q_{3c}	Technical assistance =	310.34 R\$/flock	Parameter
	<i>Sanity</i>		
Q_{6a}	Cleaning and sanitization =	172.24 R\$/flock	Parameter
	<i>Energy drinks</i>		
Q_{7a}	Heating =	2,100.00 R\$/flock	Parameter
Q_{7b}	Fuel =	308.02 R\$/flock	Parameter
Q_{7c}	Electricity =	1,365.00 R\$/flock	Parameter
	<i>Other costs</i>		
Q_{10}	Transport =	6,116.11 R\$/flock	Parameter
Q_4	Day-old chicks =	12,800.00 R\$/flock	Parameter
Q_5	Nutrition =	60,973.04 R\$/flock	Parameter
Q_8	Bedding =	33.33 R\$/flock	Parameter
Q_{2b}	Maintenance =	52.64 R\$/flock	Parameter
Q_{11a}	Miscellaneous cost - Producer =	77.68 R\$/flock	Parameter
Q_{11b}	Miscellaneous cost – Agribusiness =	2,404.38 R\$/flock	Parameter
	Interest rate =	6 %	SELIC rate
Q_{12ca}	Working capital cost - Agribusiness =	$\sum(i=7)^1(Q_{3a1,3b,3c,4,5,10,11b}) * (\text{Rate})$ $= \sum(i=7)^1(\text{__R$/flock}) * (\text{__%})$ $= 5,837.75 \text{ R$/flock}$	j Parameter

Q_{12cb}

$$\begin{aligned}
 \text{Working capital cost - Producer} &= \sum_{i=8}^1 (Q_{2b,3a,6a,7a,7b,7c,8,11a}) * (\text{Rate}) \\
 &= \sum_{i=8}^1 (\underline{\text{R\$}/\text{flock}}) * (\underline{\%}) \\
 &= \quad \quad \quad 1,134.76 \text{ R\$}/\text{flock} \quad \text{Parameter}
 \end{aligned}$$

$$\begin{aligned}
 \text{Total cost with production factors} &= (Q_{12a}) + (Q_{12b}) + (Q_{12c}) \\
 &= (\underline{\text{R\$}/\text{flock}}) + (\underline{\text{R\$}/\text{flock}}) + (\underline{\text{R\$}/\text{flock}}) \\
 &= \quad \quad \quad 14,120.75 \text{ R\$}/\text{flock} \quad \text{Parameter}
 \end{aligned}$$

^{**} MEKONNEN, MM; HOEKSTRA, AY The green, blue and gray water footprint of farm animals and animal products. Delf, the Netherlands UNESCO-IHE, , 2010. Available at: <[papers3://publication/uuid/2A0FDCDE-D1D0-43B0-8404-C512B986D8B0](https://publications.unesco-ihe.org/paper/2A0FDCDE-D1D0-43B0-8404-C512B986D8B0)>.

^a The residual rate (%) and useful life (years) of facilities and equipment were used according CONAB (2010). For the building, a residual rate of 20% and a useful life of 40 years were defined. For “rotavator” equipment, a residual rate of 5% and a useful life of 12 years were defined. For other equipments (i.e feeding, watering and air conditioning systems), the values for residual rate and useful life were defined from the median of a database with information on 340 agricultural implements listed by CONAB (2010), being defined in 5% and 12, respectively. The use of the median is justified for this purpose since the values present a high discrepancy between them, and the median may represent reality more reliably for this data set.

^b MIELE, M.; ABREU, PG; ABREU, VMN; JENISCH, FRF; MARTINS, FM; MAZZUCO, H.; SANDI, AJ; SANTOS FILHO, JI; TREVISOL, IM 2010. Technical coefficients for calculating the cost of broiler chicken production. Technical release 483, Embrapa Birds and Pigs, p. 14.

^c Payment by the agroindustry to the producer in exchange for the care of the birds;

^d Pro-labore;

^e 08 hours worked per week, 05 days worked per week and 04 weeks per month were considered, totaling 160 hours worked per month;

^g Number of flocks produced until the bed was changed for a new one;

ⁱ SELIC rate at 6% per year in 2018 (in Basic Interest Rates – Historical. Available at: <https://www.bcb.gov.br/controleinflacao/historicotaxasjuros> ; accessed on: 2023. Considering 70% of the value of the basic interest rate applied in savings

Average Currency exchange rate: 1.00 USD: 3.65 BRL in 2018