# Birth Type and Ewe Age on Milk Yield of Local sheep at Jonggol Animal Science Teaching and Research Unit

Prima Puji Raharjo

Cece Sumantri

Maman Duldjaman

# Local sheep → Jonggol.


Donggala


Garut


Jonggol


Kisar


Madura

Local sheeps have many desirable characters adapted to low quality vegetation and to withstand seasonal shortages of food and water during dry season

# Introduction

🌸 Many Researches → dairy sheep → milk yield.

🌸 Sheep used → local sheep (Jonggol).

🌸 Local sheep → milk yield → mortality → meat production

🌸 LEISA model → extensive management → was not very hard to raise in practices.

# The Objective

* The objective of the research is to study the effect of age and birth type on milk yield.

* Purpose → data base and increase sheep production → meat production also.

# Jonggol Animal Science Teaching and Research Unit / JASTRU (UP3J)



🌼 Jonggol area → 169 ha → dry condition, low quality vegetation

# Material

* The Local Sheep (Jonggol) → Thin Tail Javanese Sheep X Garut Sheep (natural).

* The total number ewe = 92 head

* 78 single births ($I_1$ = 9 heads, $I_2$ = 18 heads, $I_3$ = 16 heads, $I_4$ = 35 heads).

* 14  twins ($I_1$ = 3 heads, $I_2$ = 3 heads, $I_3$ = 1 head, $I_4$ = 7 heads).

# Method

* Lamb suckling weight differences → calculate milk yield.

* Lamb → fasting treatment → 6 hours

* Time Schedule → 05.00 am , 11.00 am, 05.00 pm and at 11.00 pm

* Data analysis → Factorial design 2 x 2 → t-student

# Results & Discussion

| Matter | Local Sheep (n = 92 ewes) | Priangan | |
| --- | --- | --- | --- |
| | | Sumaryadi (1997) | Adriani (1998) |
| Litter Size | 1.15 | 1.28 | 1.40 |
| Average Milk Yield (kg/ewe/day) | 1.42 ± 0.29 | 0.65 ± 0.03 | 1.42 ± 0.53 |
| Declining Rate (%) | 4.89 | - | - |

# Results & Discussion



y = -4,23x + 482,30

(Chart: Milk Yield (g/ewe/6h) vs Days of Postpartum)
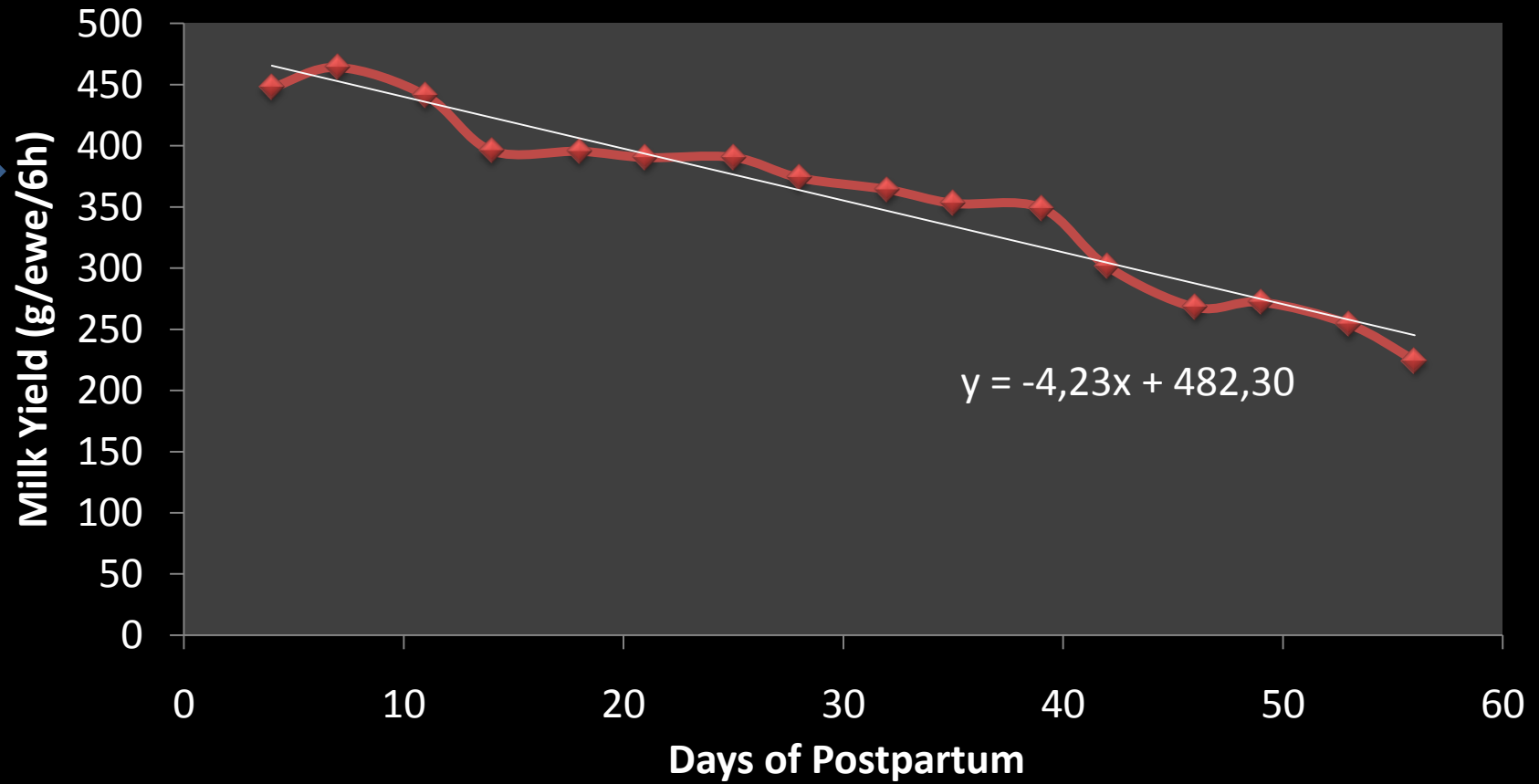
# Results & Discussion

| Birth Type | Average of Milk Yield (kg/ewe/day) |
|------------|-----------------------------------|
| Single | $1.38 \pm 0.26^{a}$ |
| Twin | $1.66 \pm 0.51^{b}$ |

# Results & Discussion
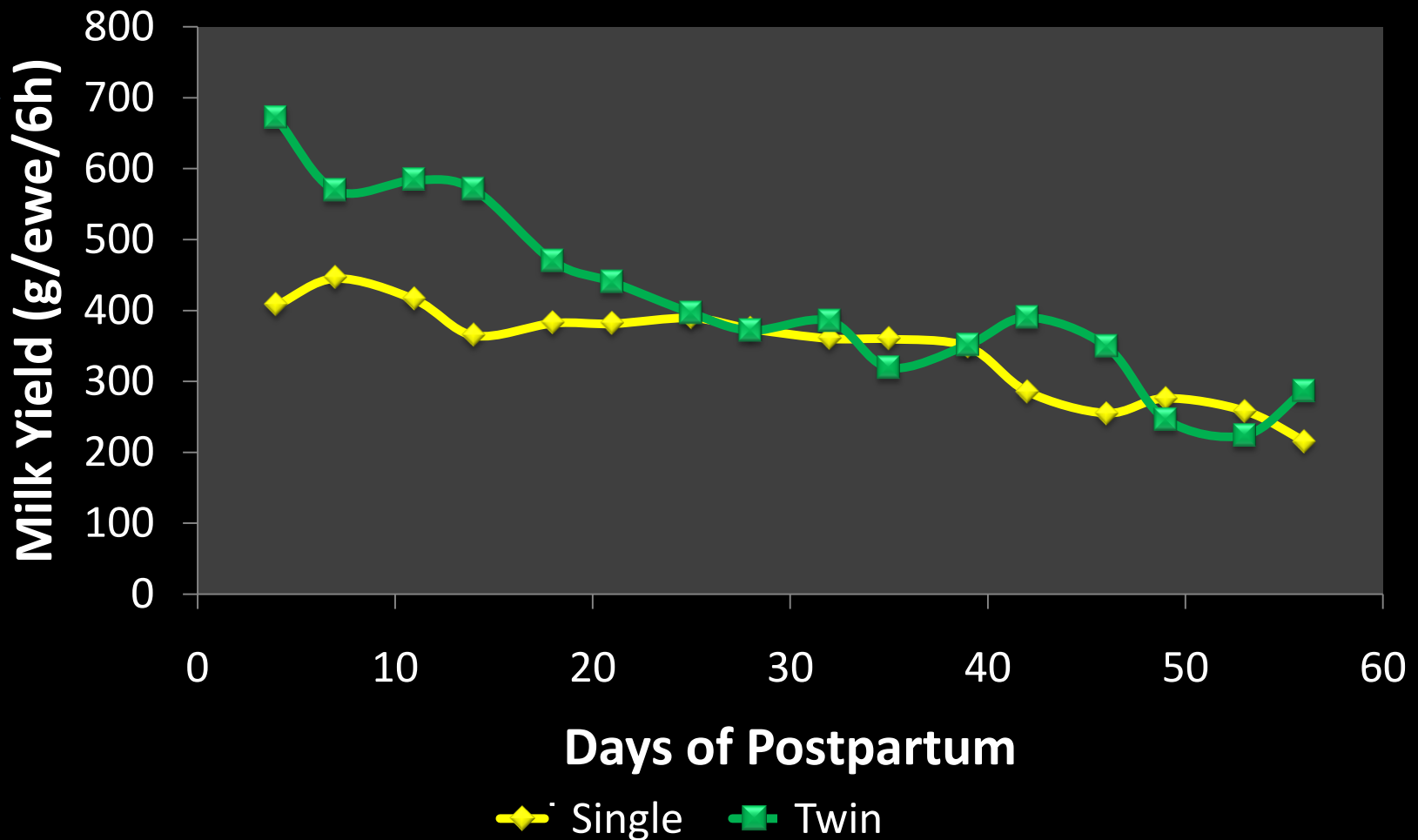
# Results & Discussion

| Age | Average of Milk Yield (kg/ewe/day) |
|---|---|
| $I_1$ | $1.02 \pm 0.19^a$ |
| $I_2$ | $1.29 \pm 0.22^{ab}$ |
| $I_3$ | $1.77 \pm 0.41^c$ |
| $I_4$ | $1.45 \pm 0.34^b$ |

# Results & Discussion
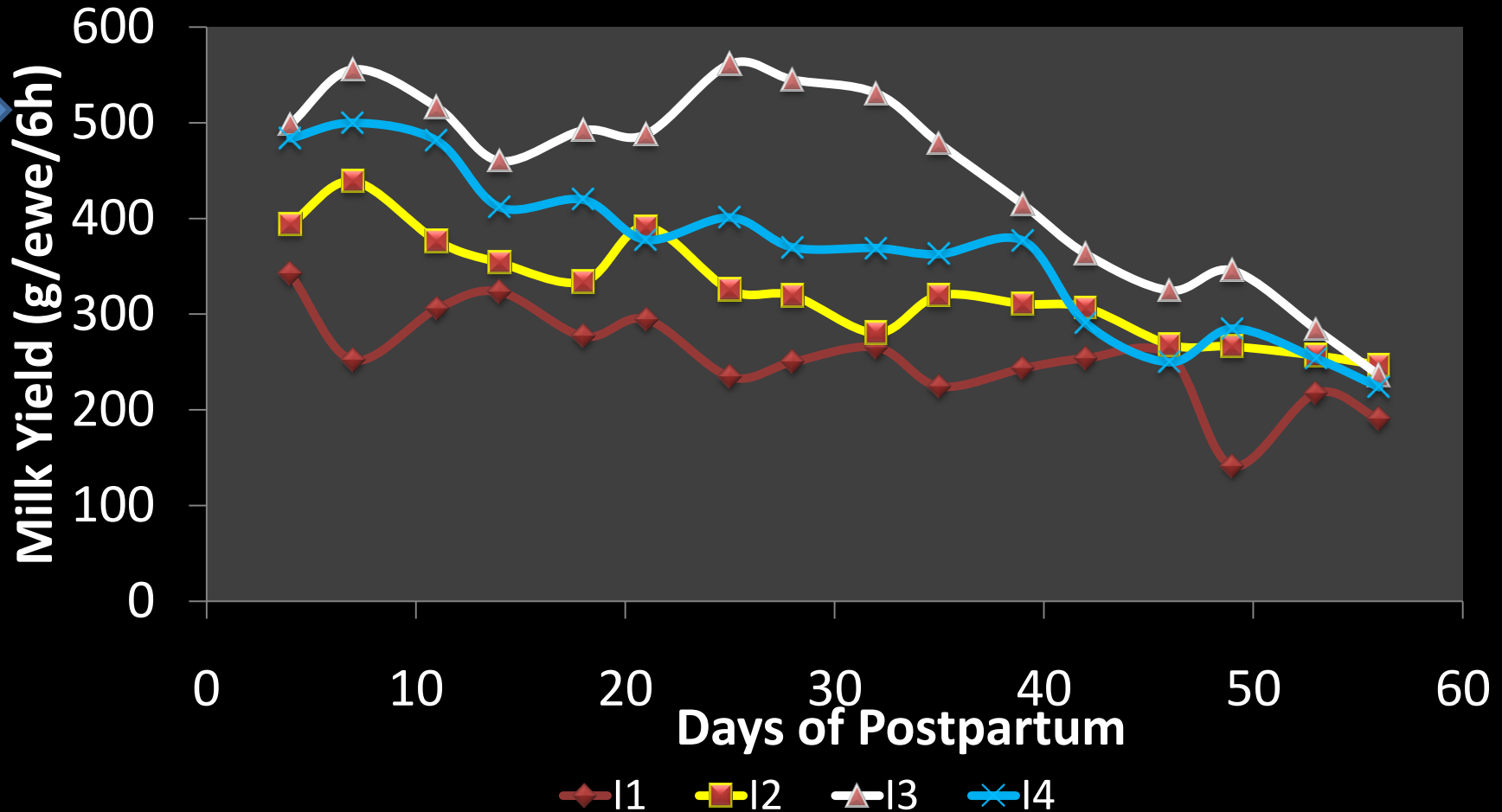
# Conclusion

🌼 Age of ewe and birth type have a real effect on milk yield.

🌼 Raising under extensive management → model LEISA → not sufficient feed but quiet high on milk yield.

# Thanks For Your Attention