



THE UNIVERSITY OF  
**AUCKLAND**  
Te Whare Wānanga o Tāmaki Makaurau  
NEW ZEALAND

# Milk POWDER

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Andy Philpott, Andrew Mason, Anthony Downward























In my opinion,  
all palm oil  
should be banned.



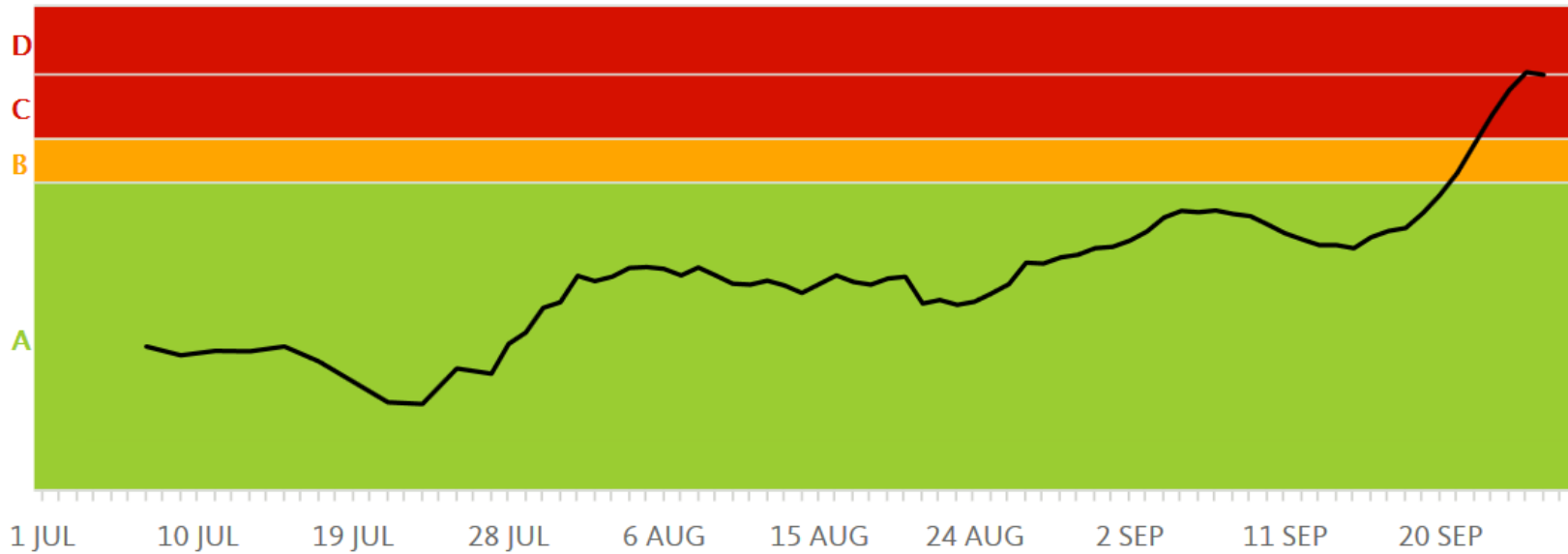


01/07/17 - 27/09/17 ▼

2017/18 ▼

[Last 10 Days](#)

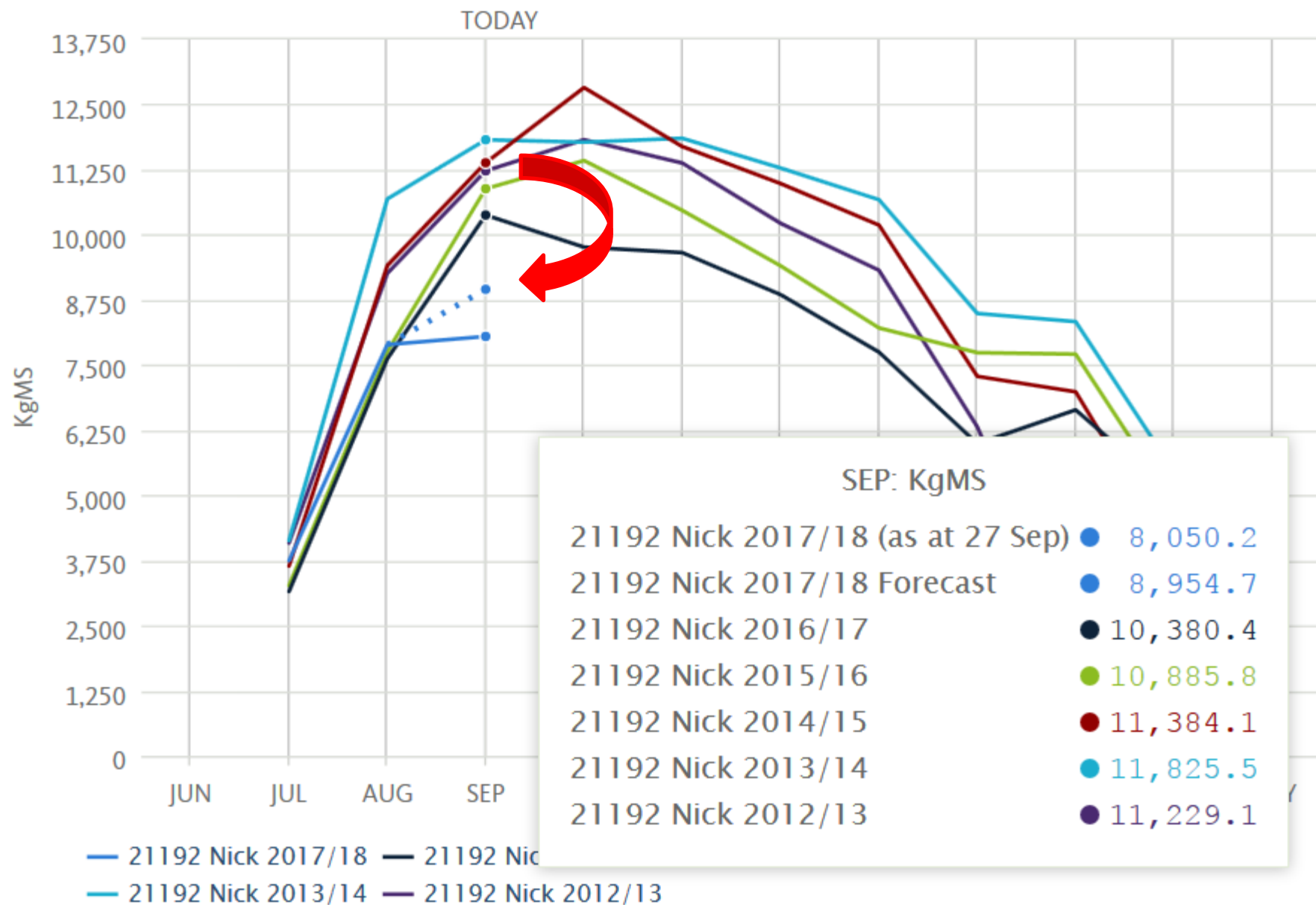
### FEI : This Season



- ☐ Kg/
- ☐ Litr
- ☐ SC
- ☐ Kg/
- ☐ Fat
- ☐ Mil
- ☐ Pro
- ☒ FEI

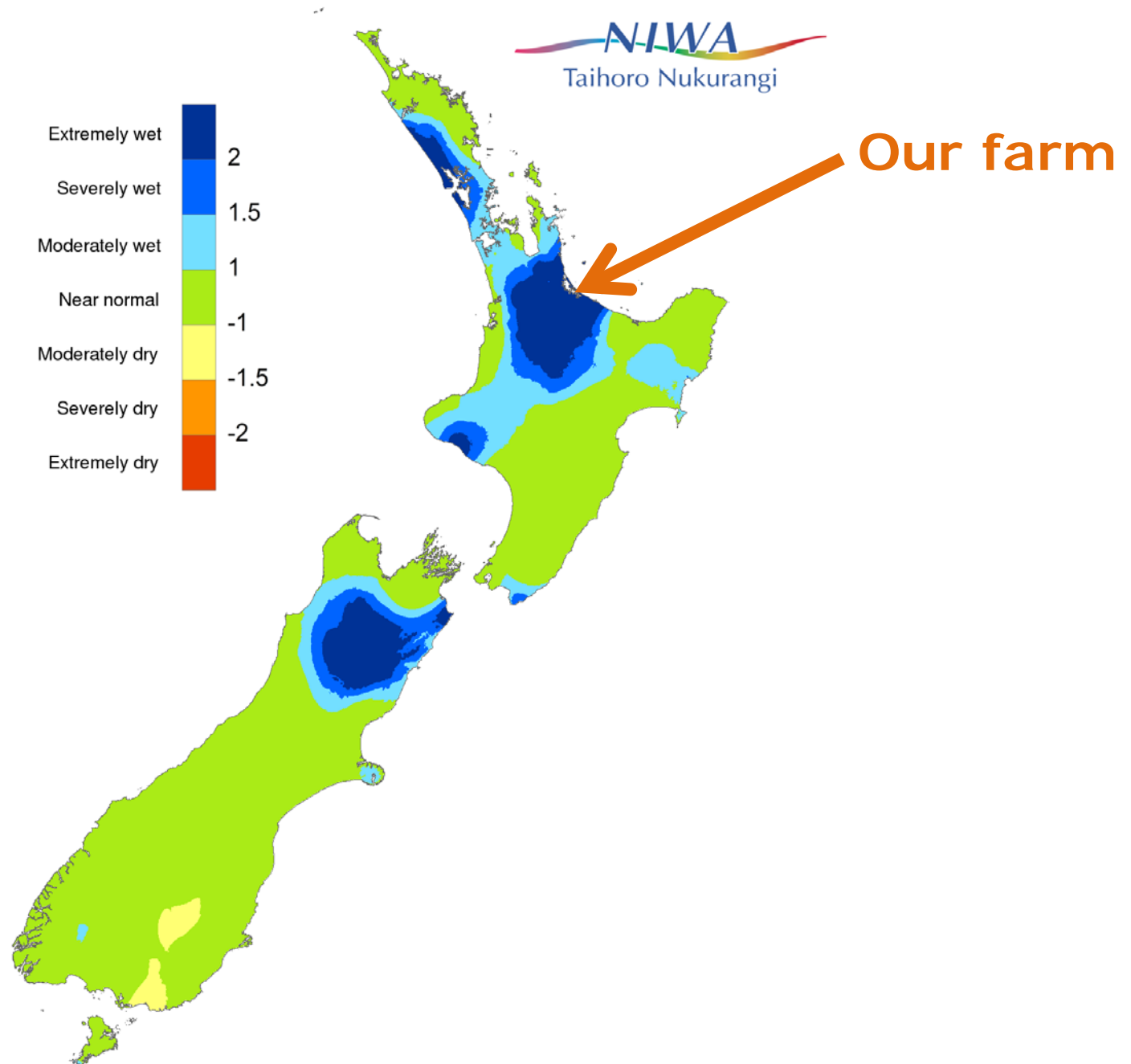


KgMS : 1 June – 31 May





# SPI Drought Index for 9am 27/08/2017 to 9am 26/09/2017





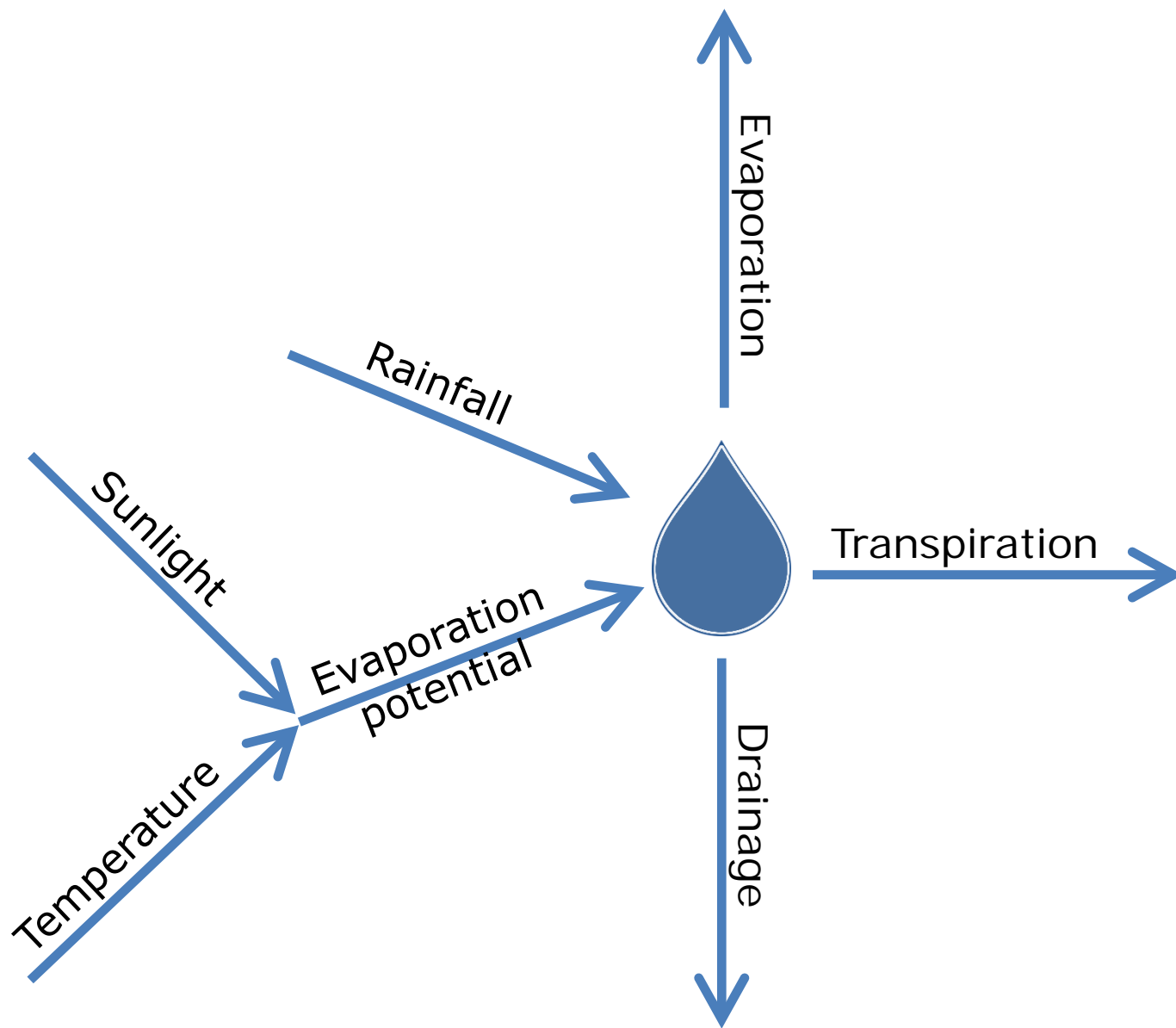
# What went wrong?

- Good payout forecast
- So maintained high stocking rate
- Reasonable feed stocks on hand so didn't buy more
- Wet year (2x avg. rainfall) left paddocks damaged
- Experience said: can't have bad Summer, Autumn, Winter AND Spring right... the sun will come
- Farm consultant's advice: "don't blink"

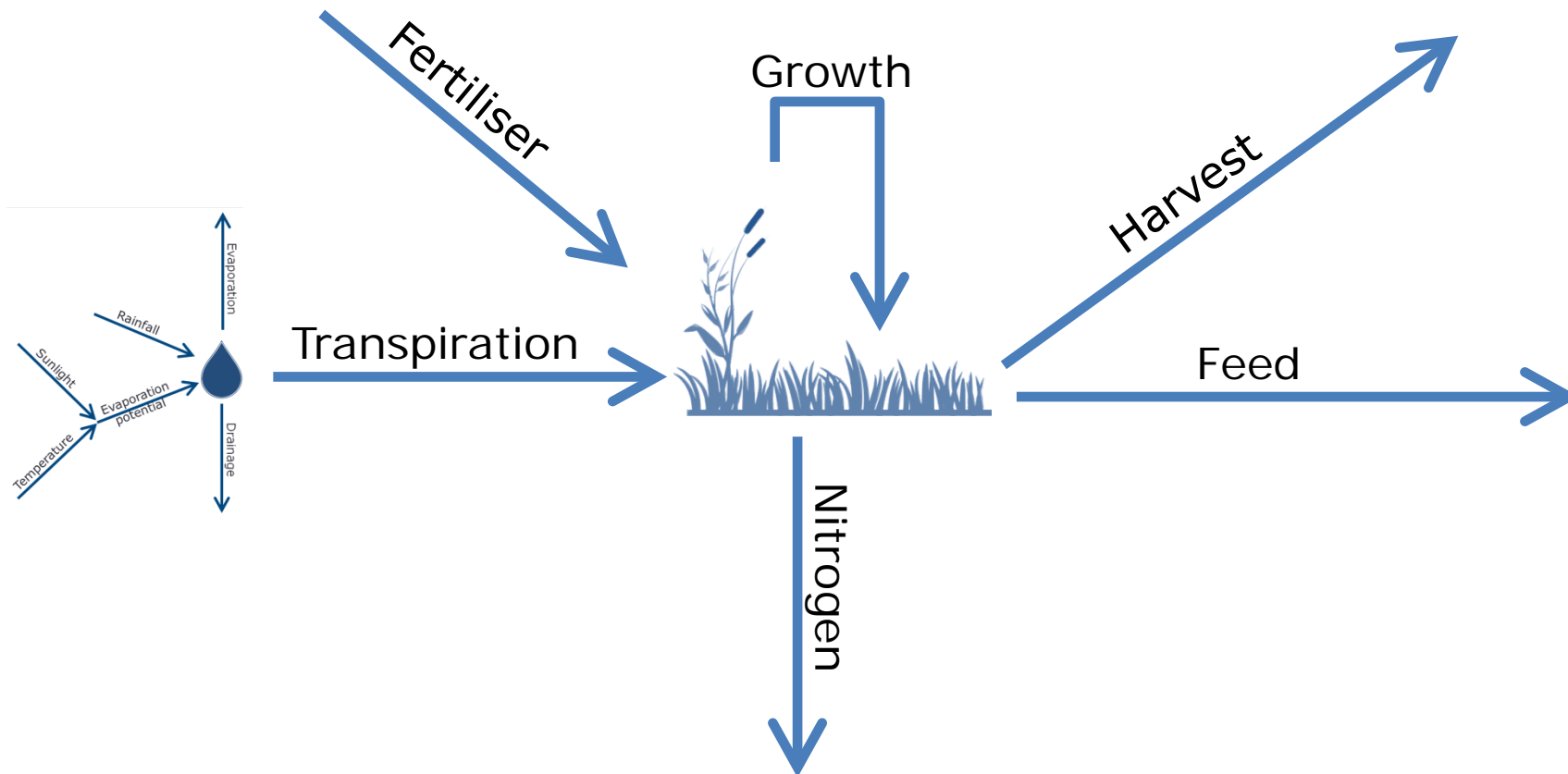


The **Milk**  
**P**roduction  
**O**ptimiser incorporating  
**W**eather  
**D**ynamics and  
**E**conomic  
**R**isk

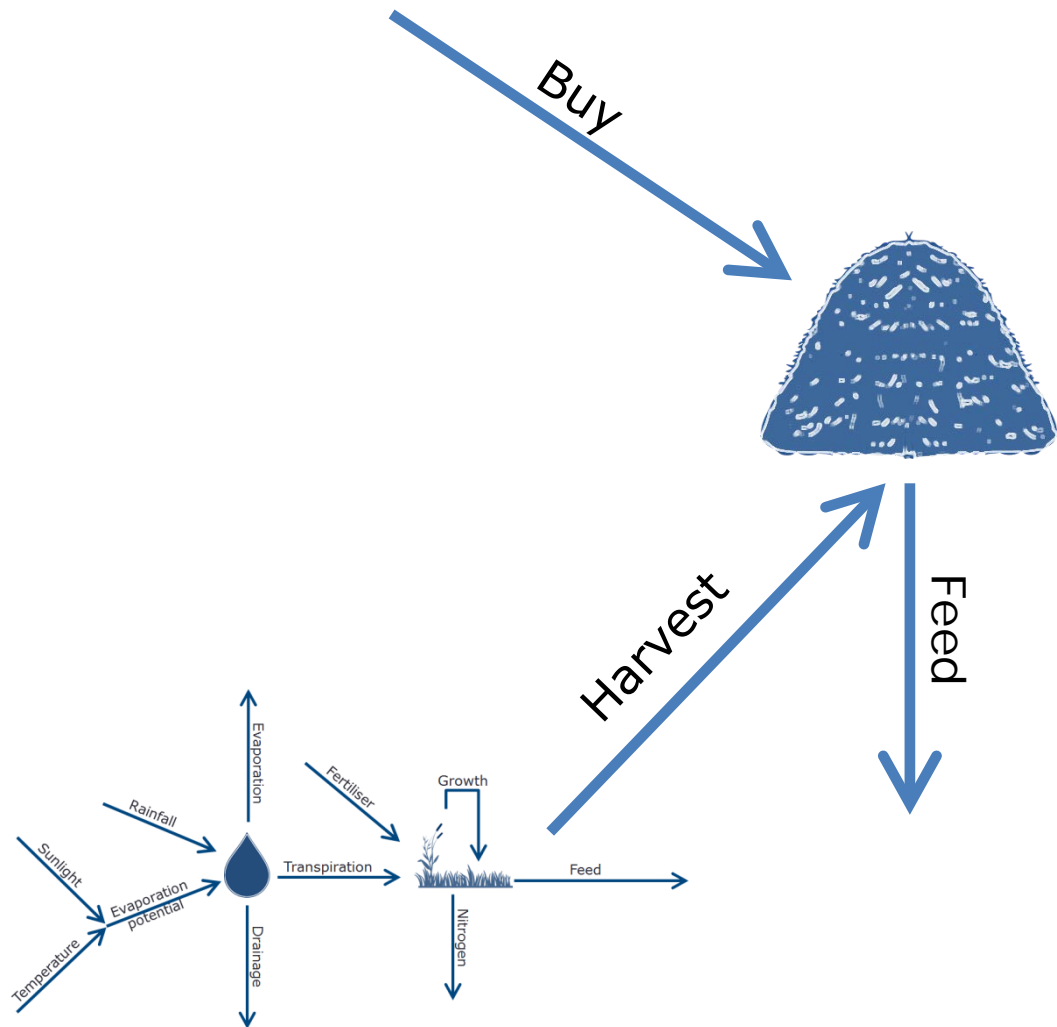


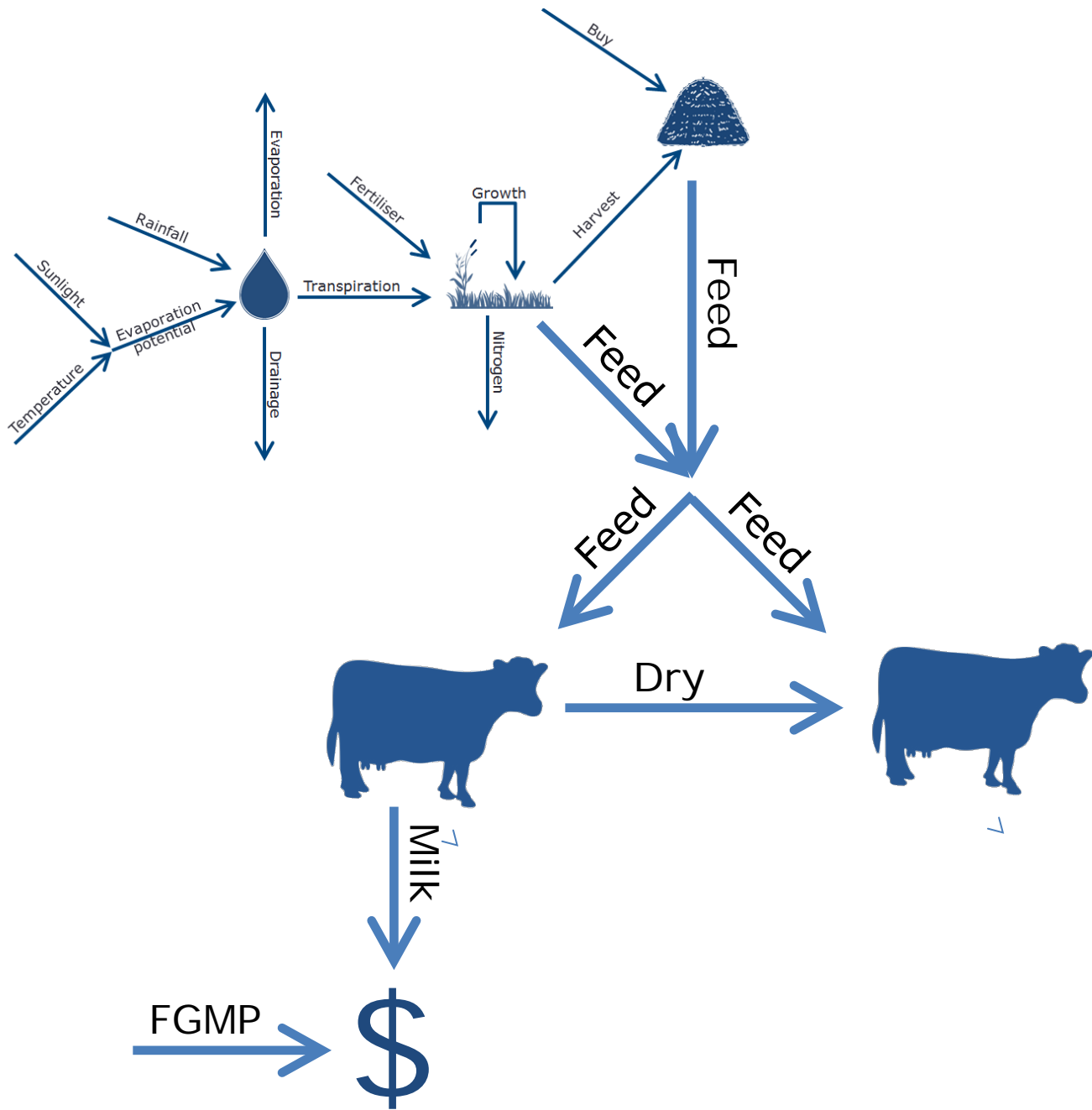




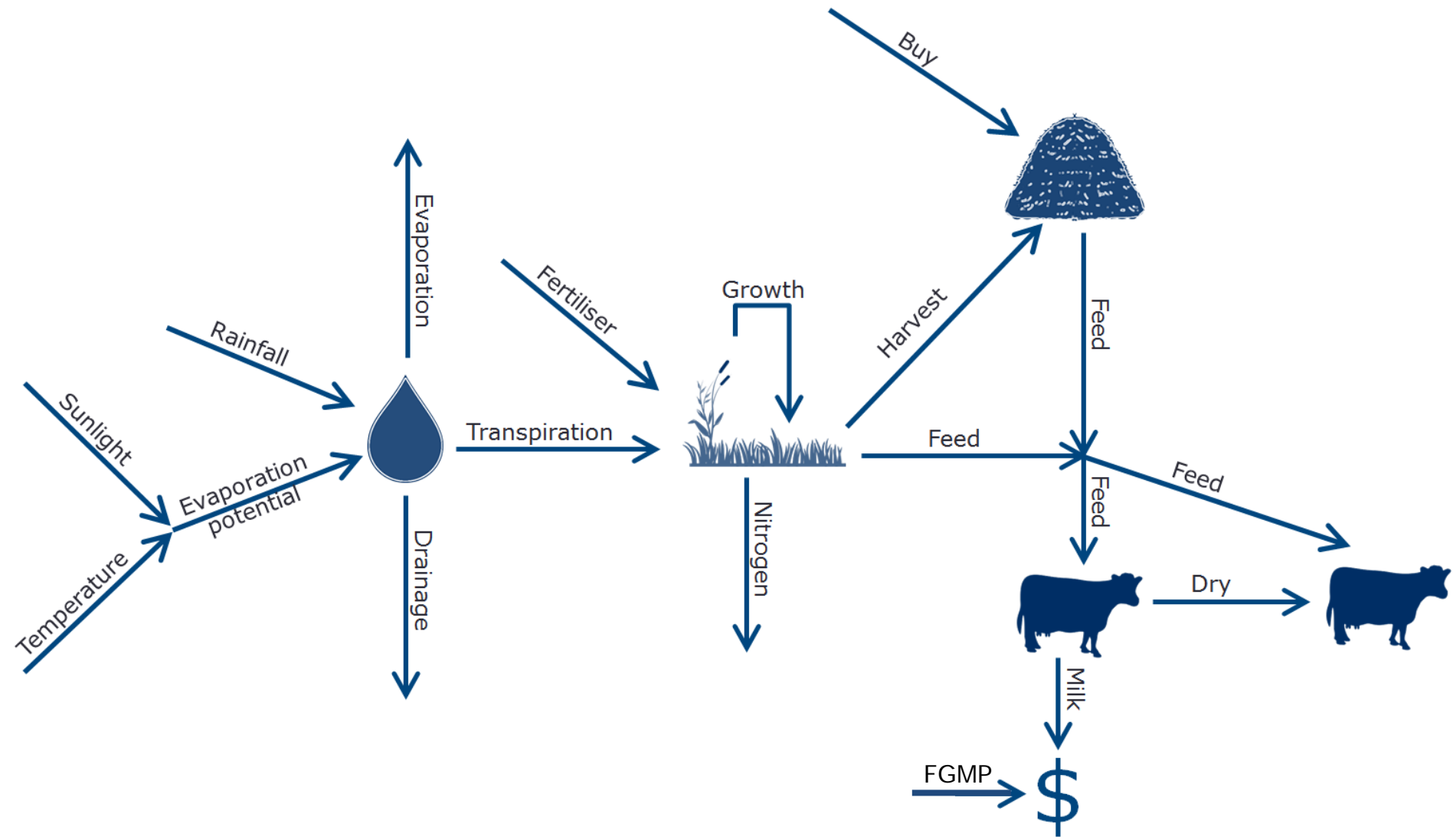


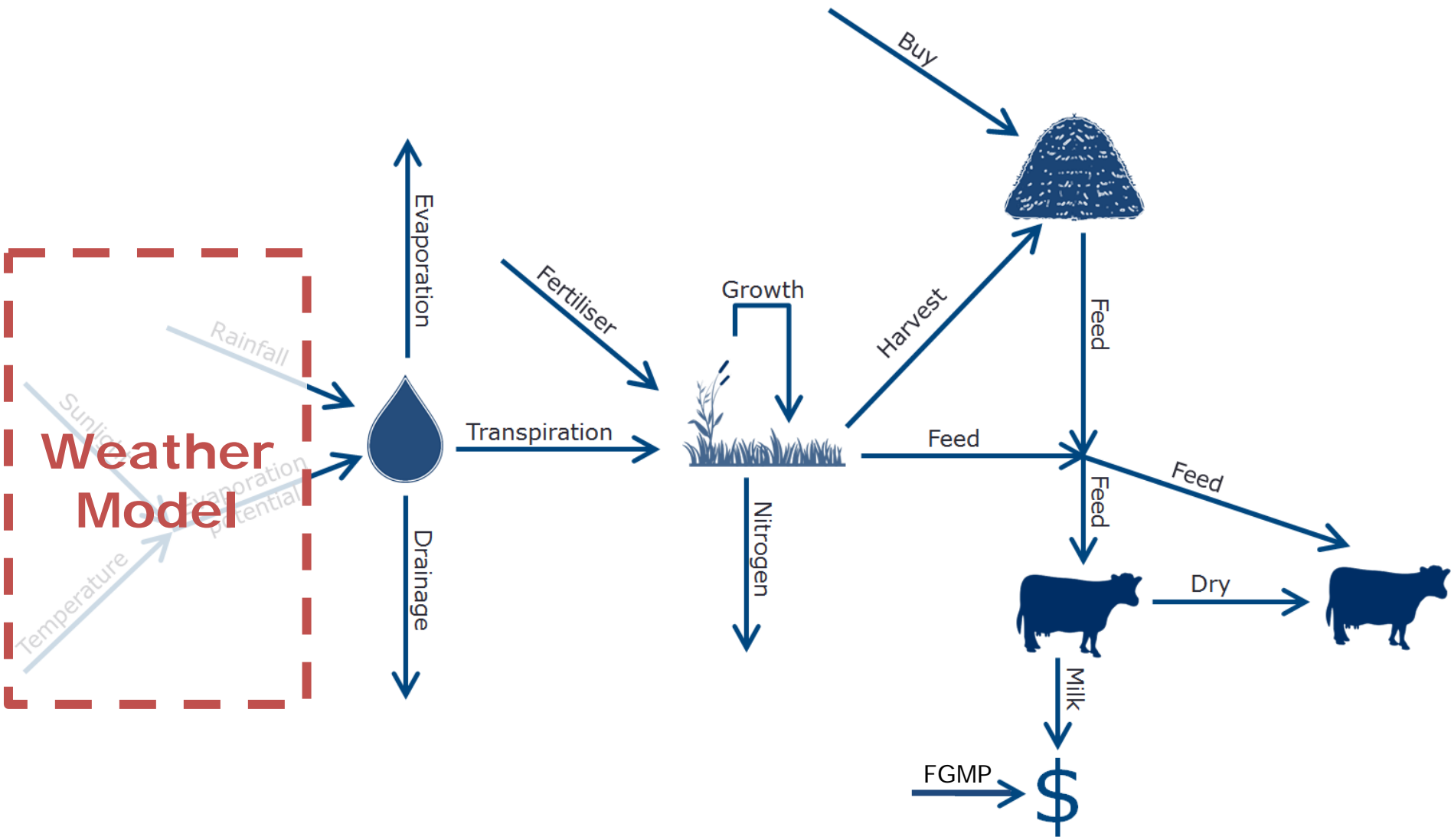




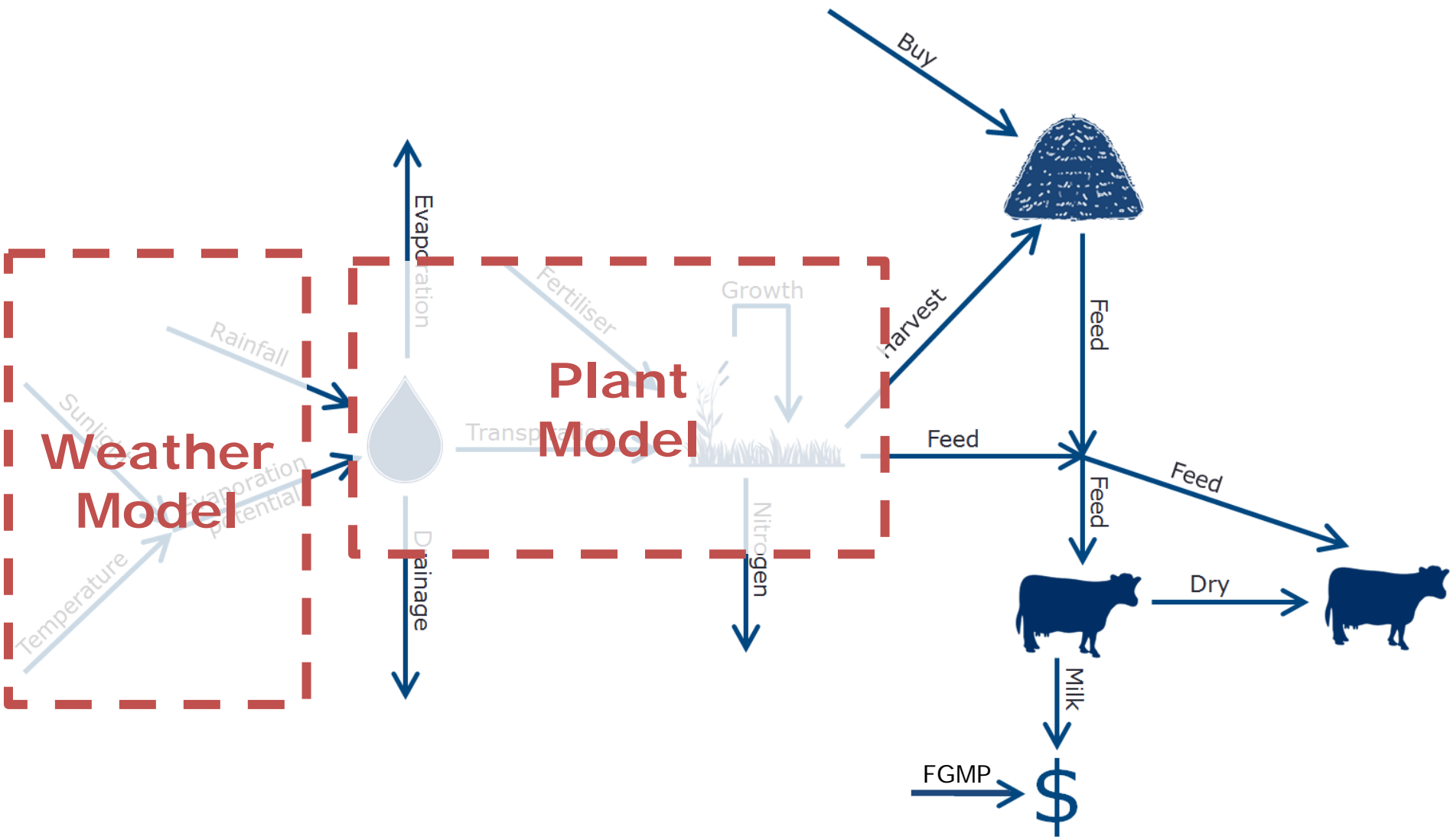


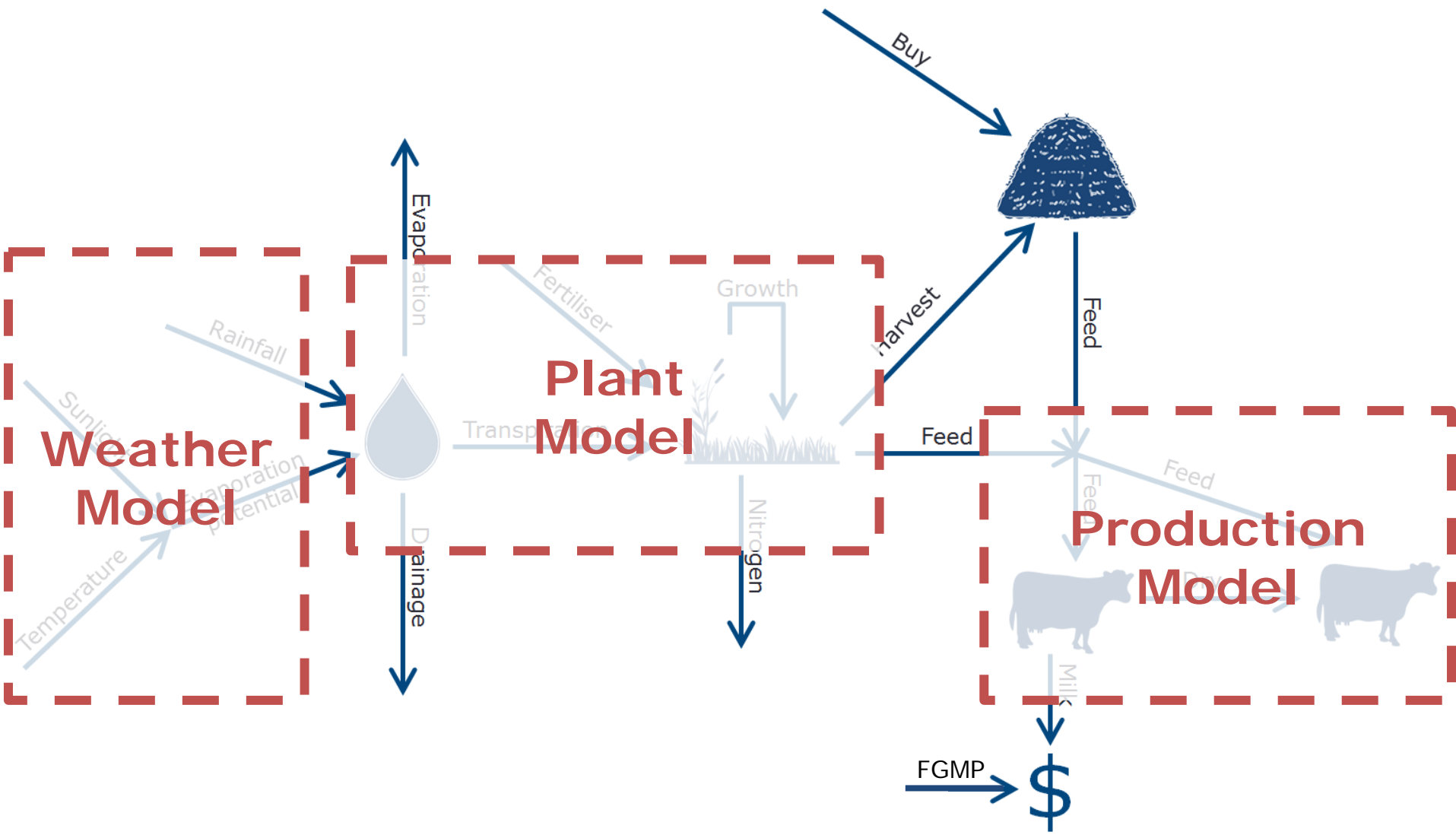




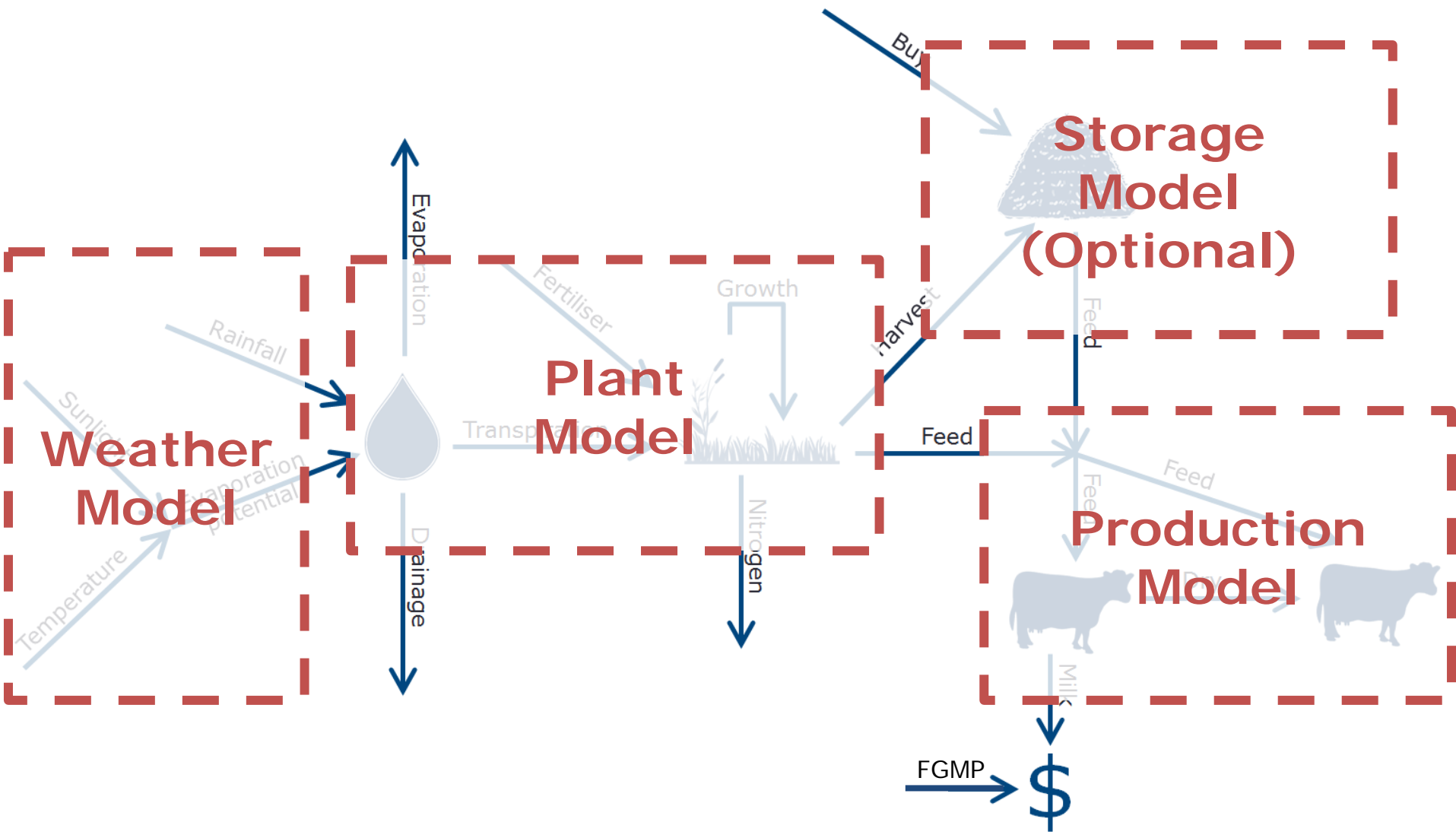


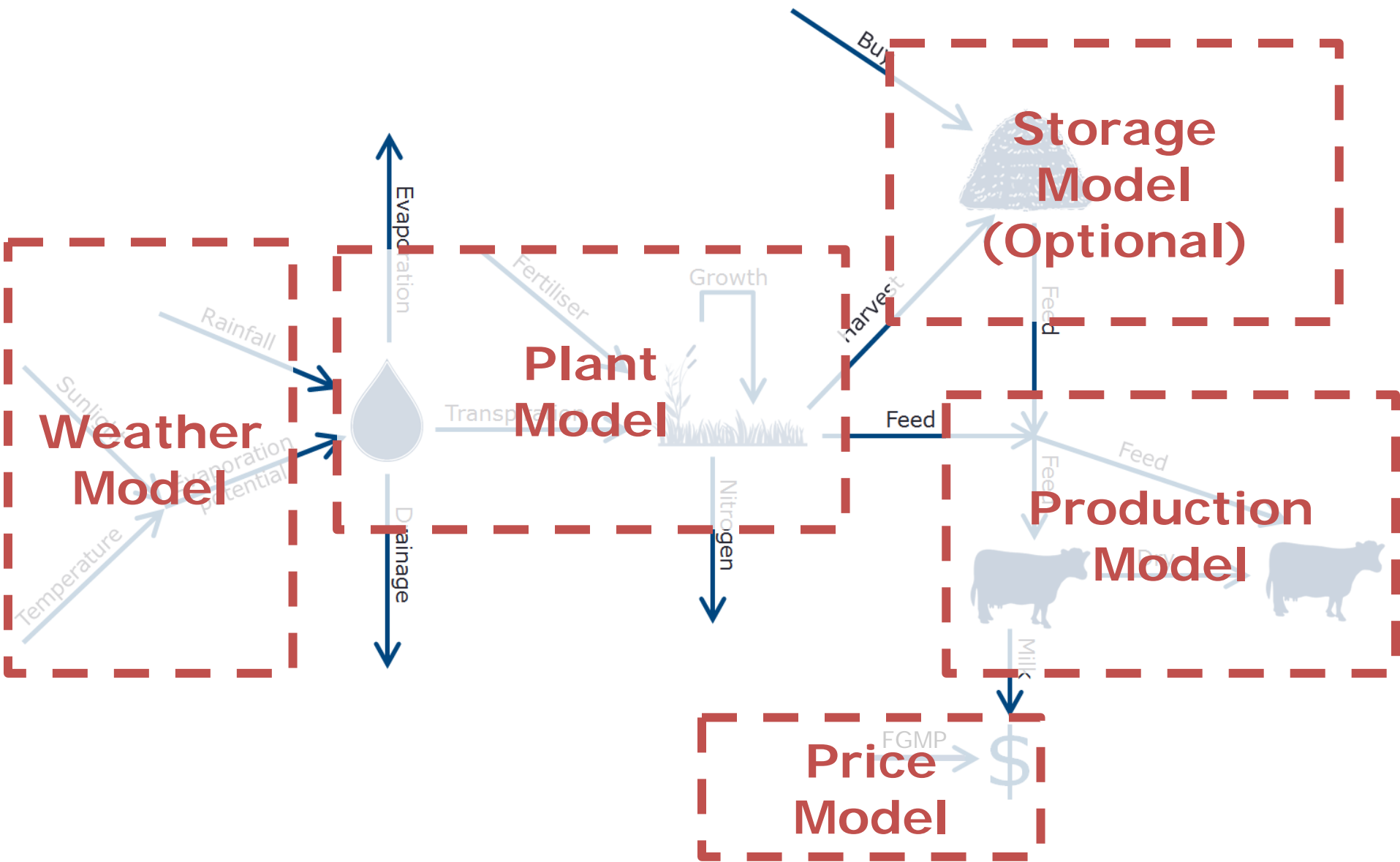






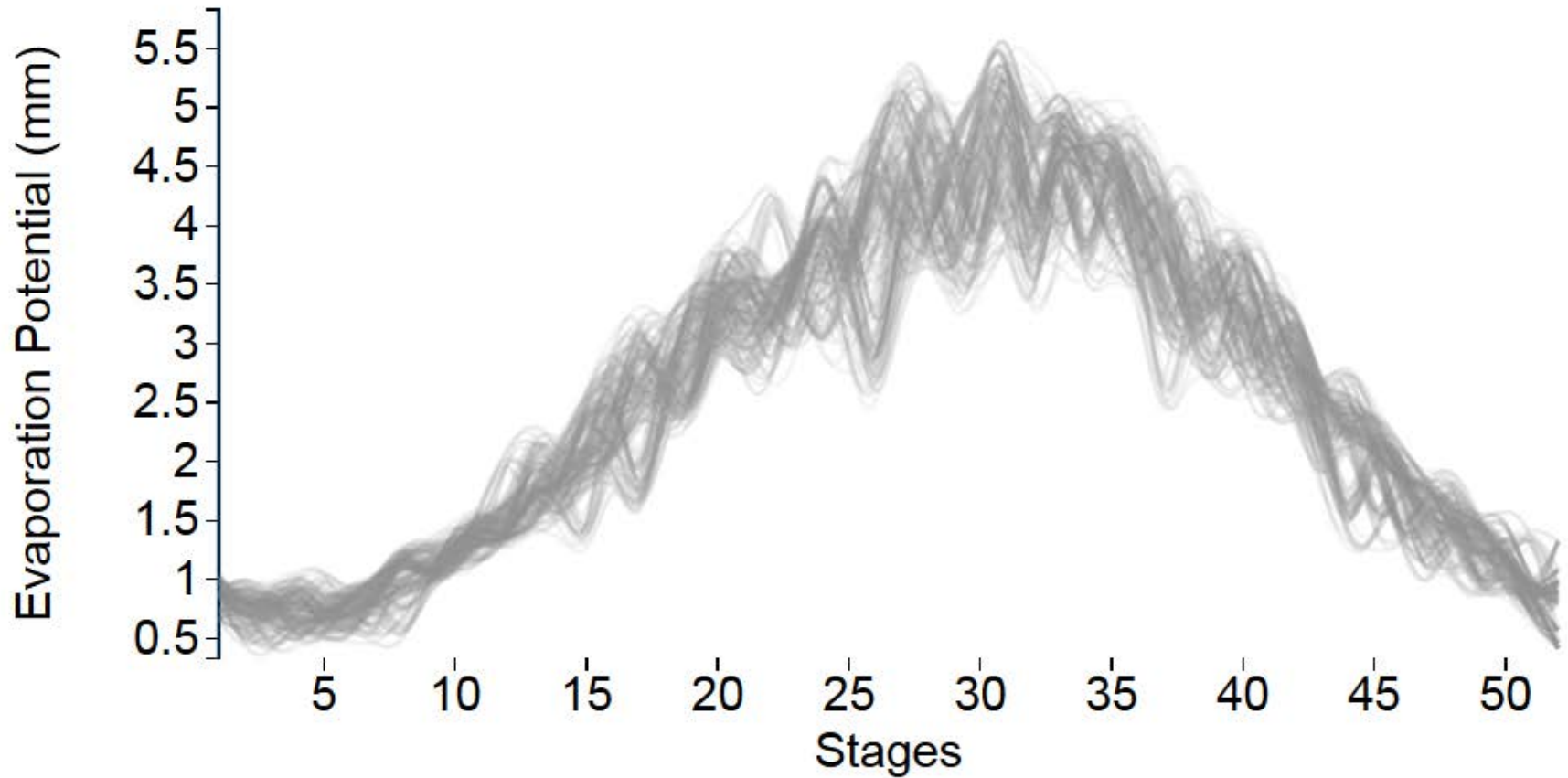




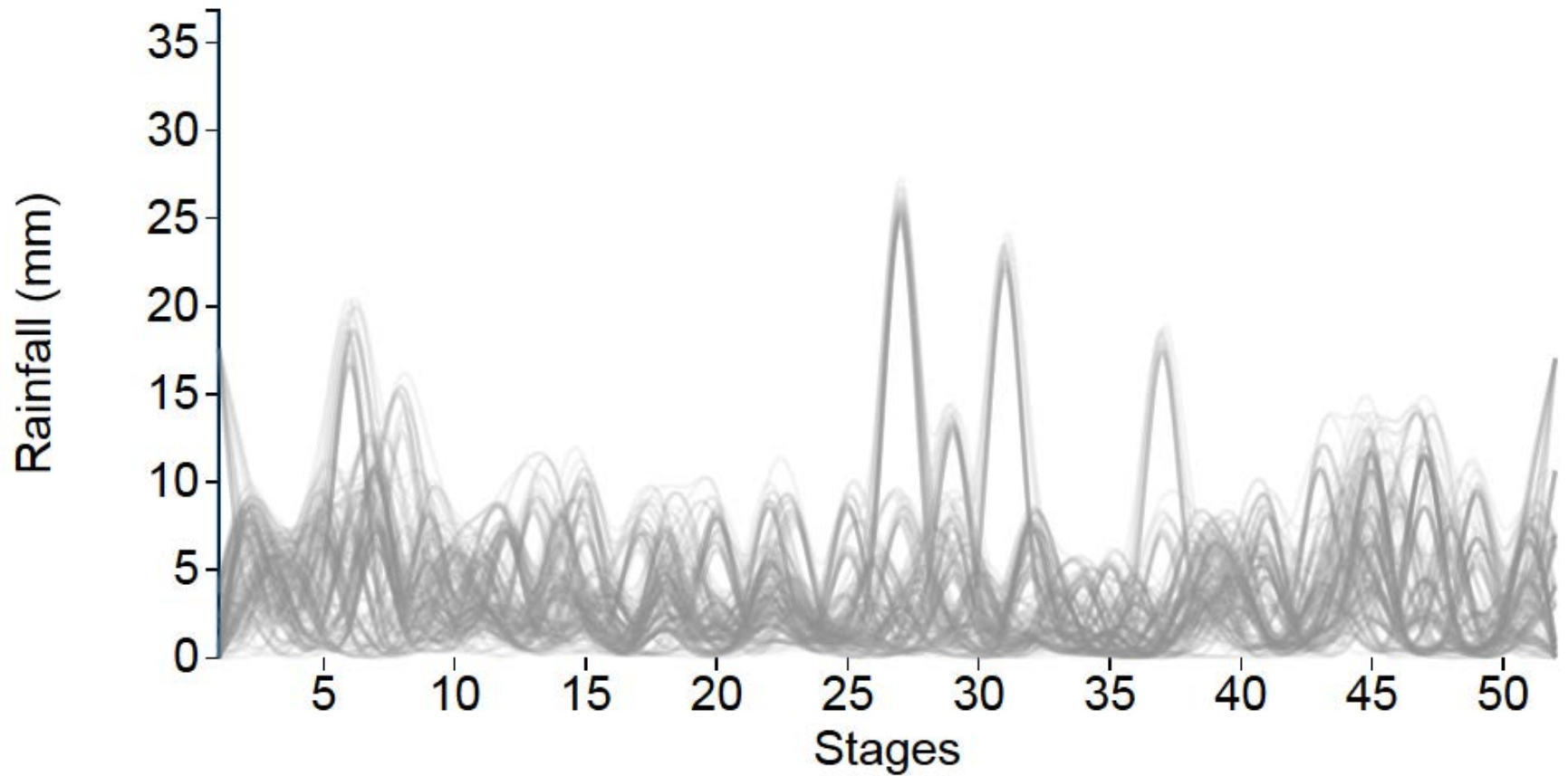




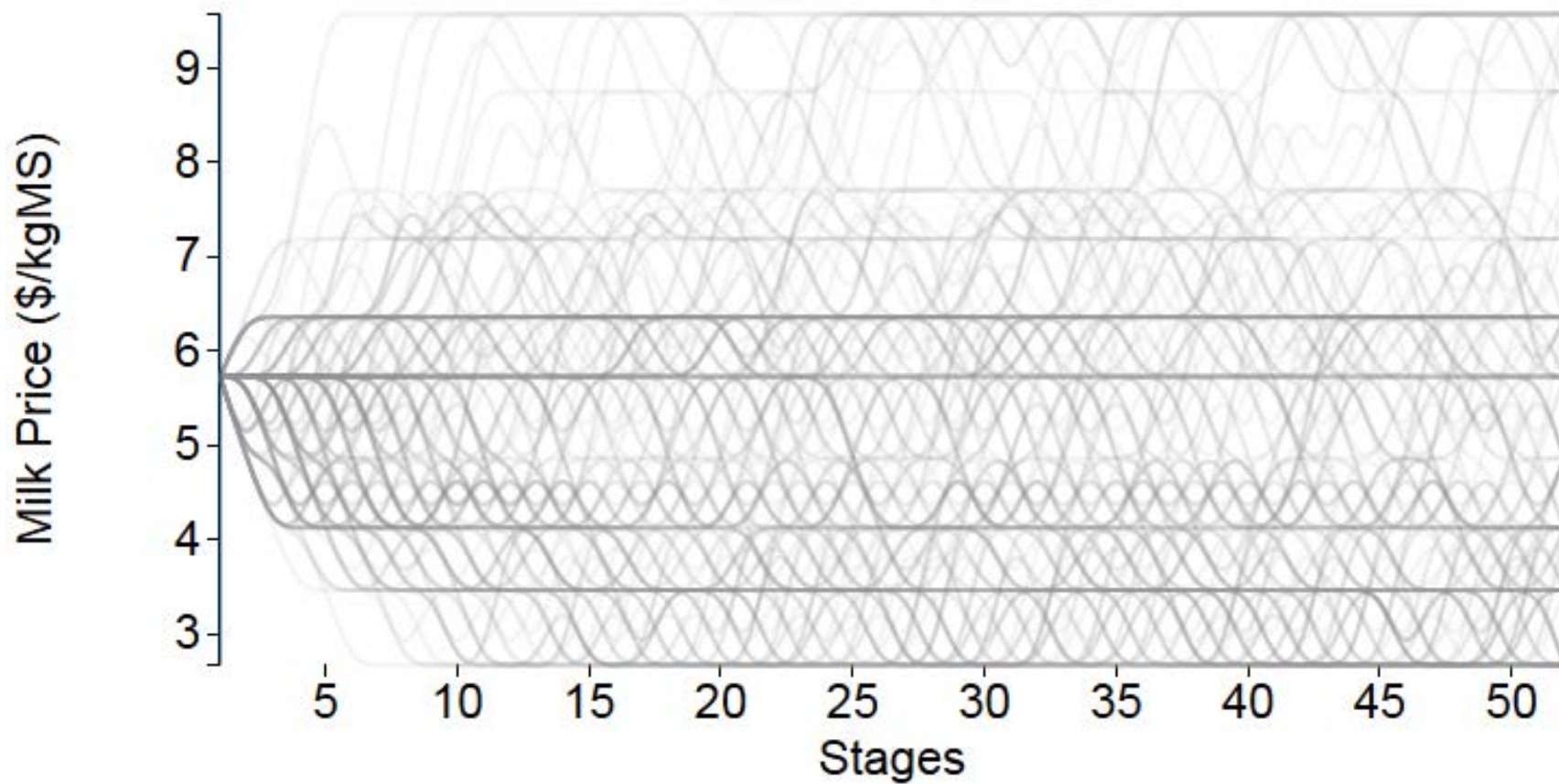
# Evaporation Potential



# Rainfall



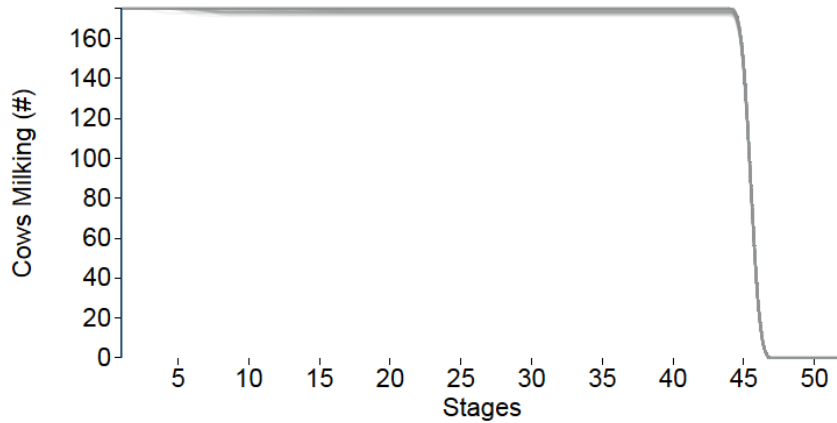
# Milk Price



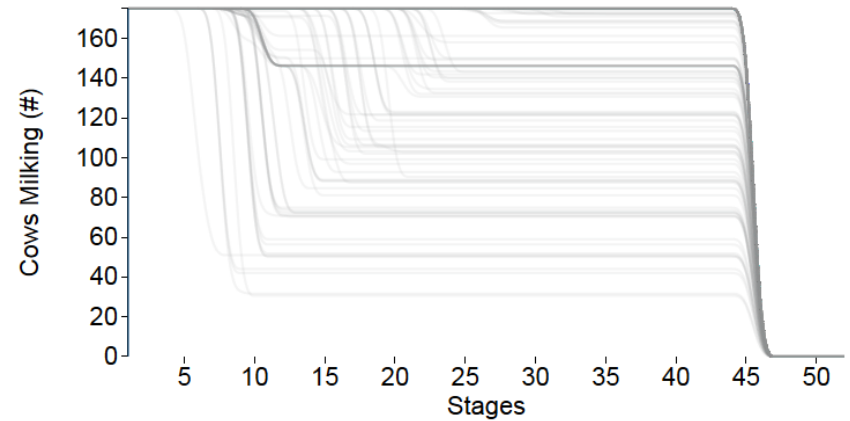


# Dry off Decisions

## Risk Neutral

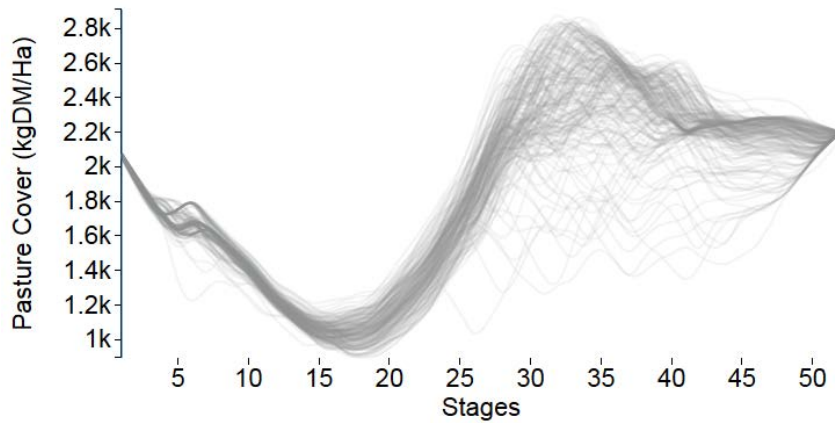


## Risk Averse

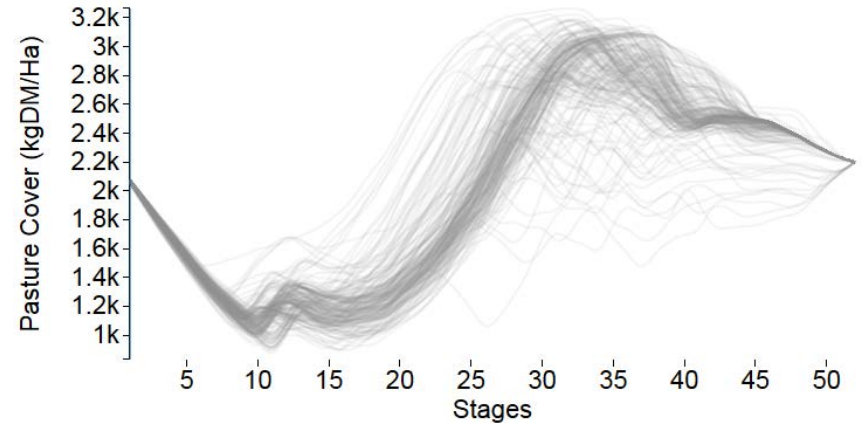


# Pasture Management

**Risk Neutral**

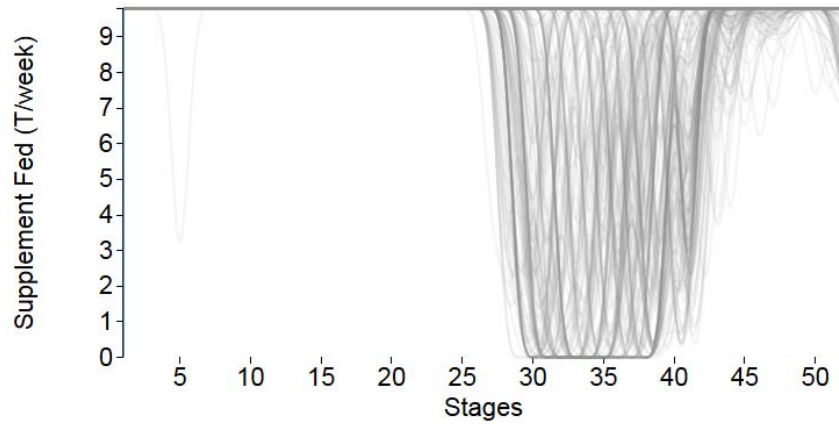


**Risk Averse**

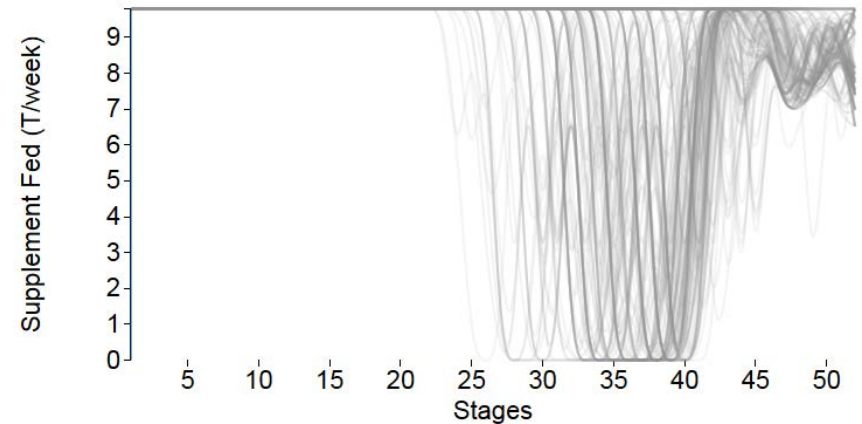


# Supplementation

**Risk Neutral**

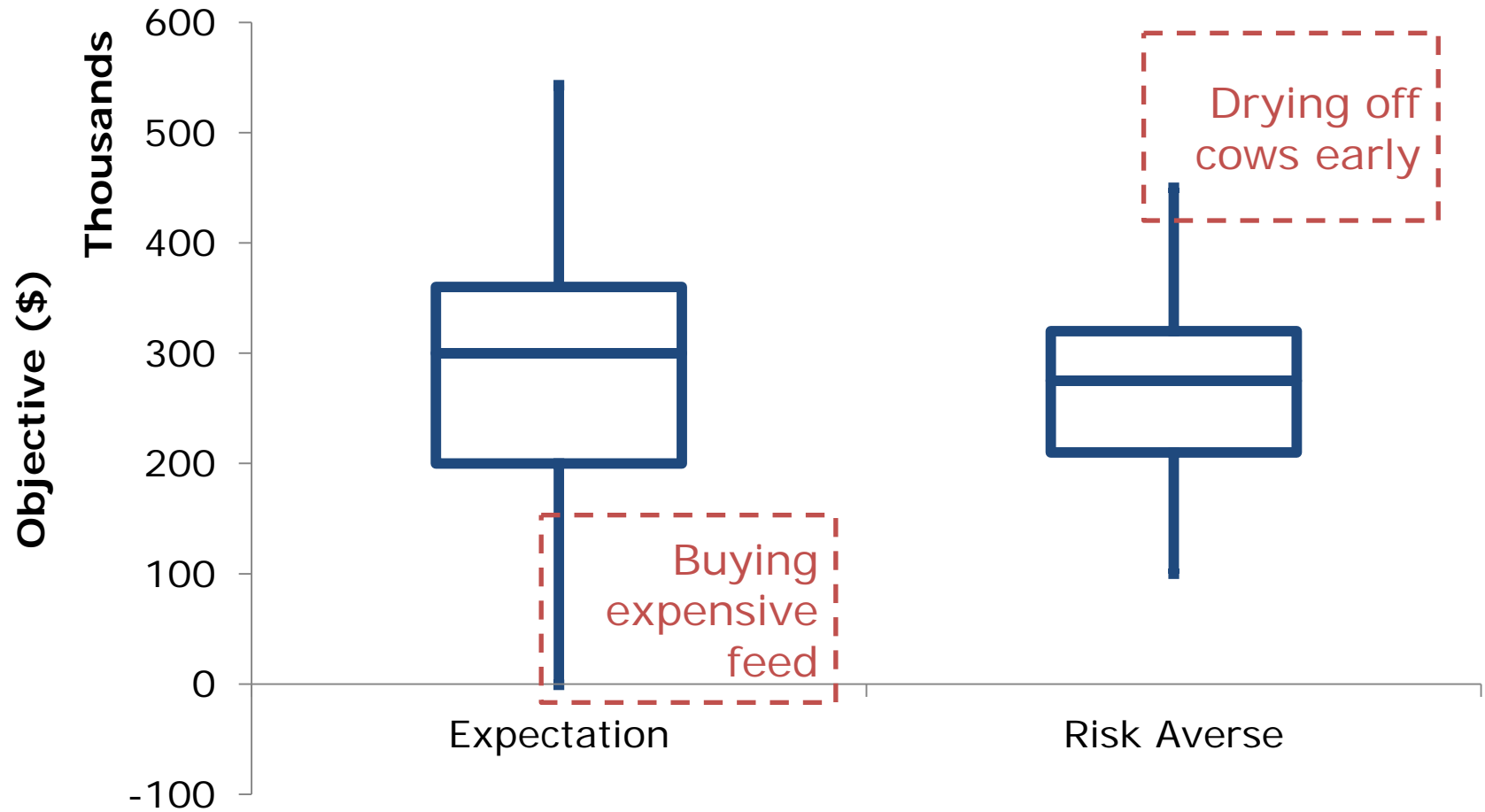


**Risk Averse**

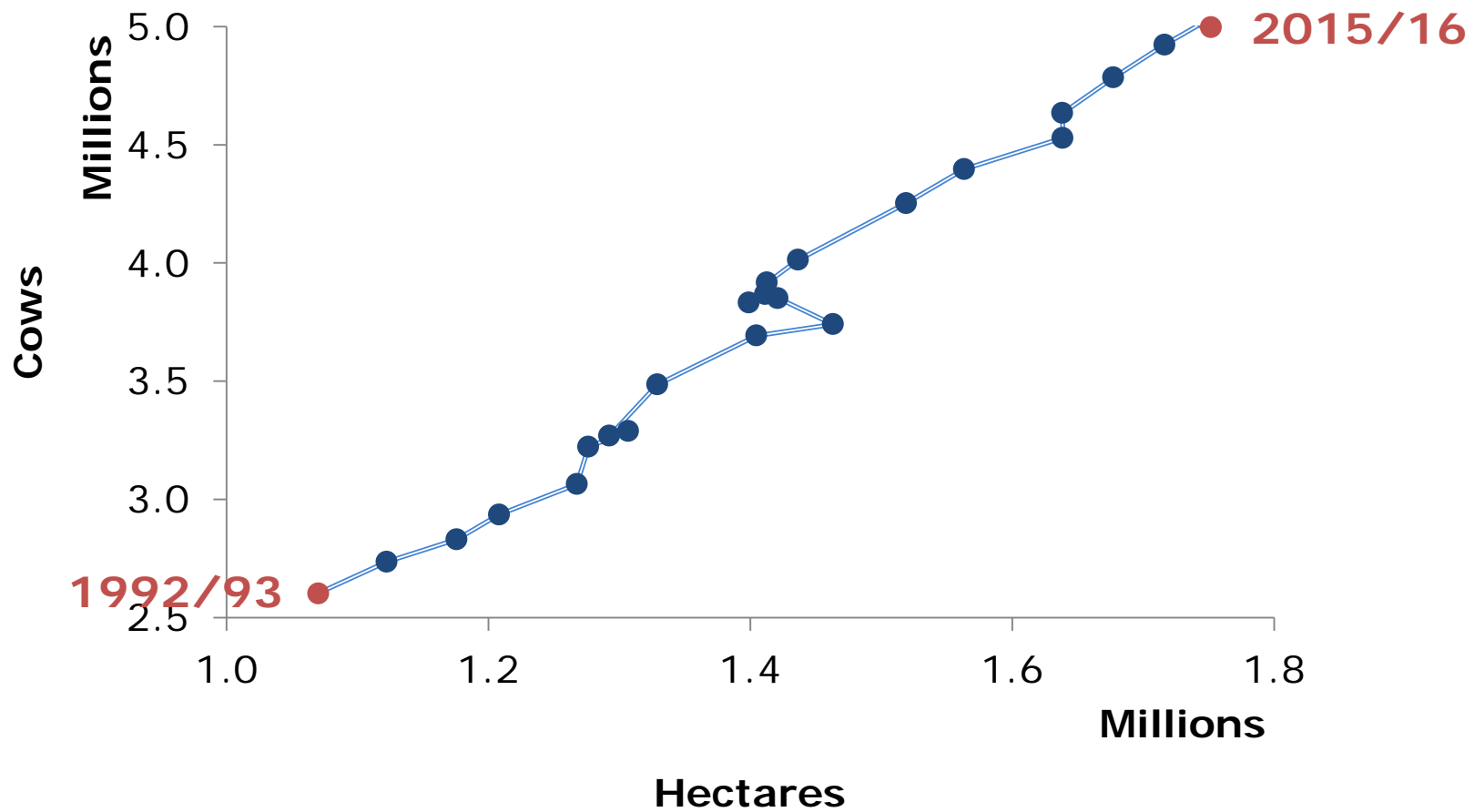




# Objective









# Greens to tax pollution to help fund sustainable farming

STACEY KIRK

Last updated 16:58, September 2 2017



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STACEY KIRK

Last updated 16:58, September 2 2017

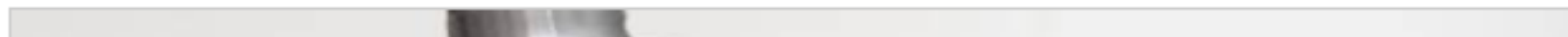


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## Labour's water tax plan doesn't go far enough: Economists

SUSAN EDMUNDS

Last updated 15:24, September 13 2017



# Greens to tax pollution to help fund sustainable farming

STACEY KIRK

Last updated 16:58, September 2 2017



St

## Labour's water tax plan doesn't go far enough: Economists

SUSAN EDMUNDS

Last updated 15:04, September 13 2017



## Intensive dairy farming threatens NZ's clean, green image: Greenpeace

GERALD PIDDOCK

Last updated 13:23, March 9 2017





# Demonstration dairy farm cuts nitrate leaching 30 per cent and stays profitable

Lincoln University Dairy Farm is close to achieving a 30 per cent reduction in nitrate leaching, while maintaining its profitability. The farm's managers tell Tony Benny how it was done.

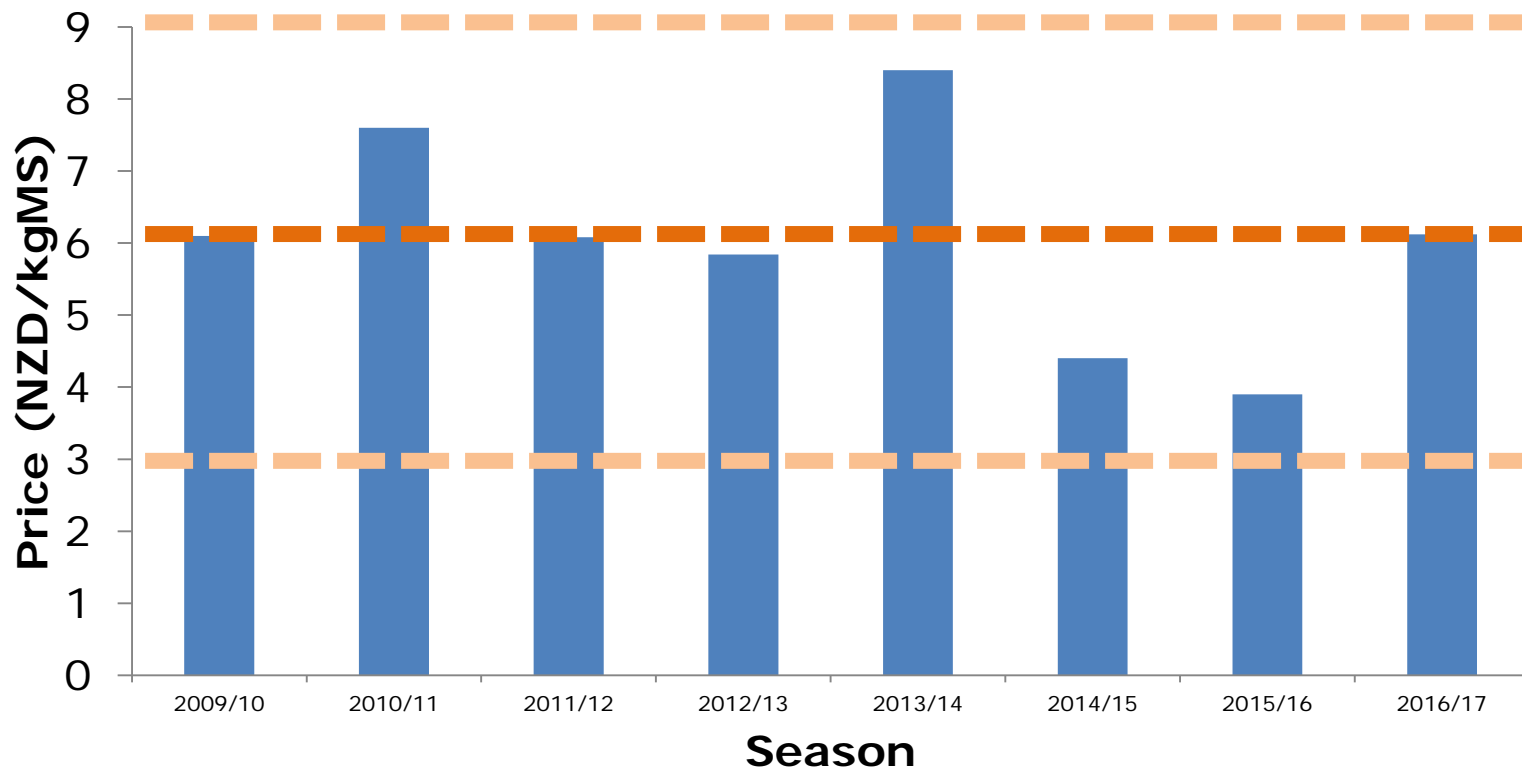
Last updated 10:00, September 21 2017



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## Fonterra Farmgate Milk Price





[← America's mega dairy farms](#)

[EU ramps up dairy production again →](#)

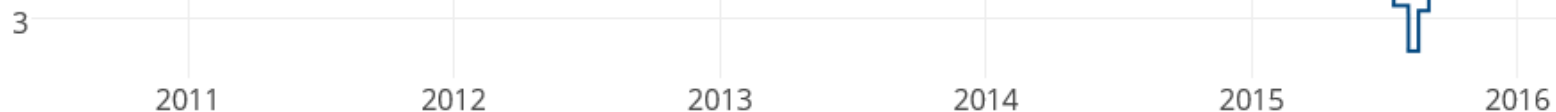
## Dairy prices are not predictable

Posted on [April 20, 2016](#)

In recent weeks, the news media has been reporting wildly opposing views on short term dairy prices.

ASB's Nathan Penny has been predicting a 2016/17 payment that will start with a '6'. In contrast, Westland's Chair Matt O'Regan and CEO Rod Quinn are saying that they see ongoing gloom for up to two years. Rabobank see improvement but not until 2017. And Fonterra's John Wilson has almost apologised for past failures with his acknowledgement that predicting prices is indeed difficult.

[keithwoodford.wordpress.com](http://keithwoodford.wordpress.com)





[← America's mega dairy farms](#)

[EU ramps up dairy production again →](#)

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## Dairy price estimates are consistently wrong

Posted on [May 31, 2016](#)

As occurs each year, the media have focused on Fonterra's opening forecast for the coming year, predicted this year to be \$4.25, as if it has significant meaning. To put that in perspective, here are Fonterra's opening forecasts and actual payments for the last five years.

Year	Opening Forecast (\$)	Actual Payment (\$)	Variation \$)
2011/12	6.75	6.08	- 0.67
2012/13	5.50	5.84	+ 0.34
2013/14	7.00	8.40	+ 1.40
2014/15	7.00	4.40	- 2.60
2015/16	5.25	3.90 ( not yet final)	- 1.35