



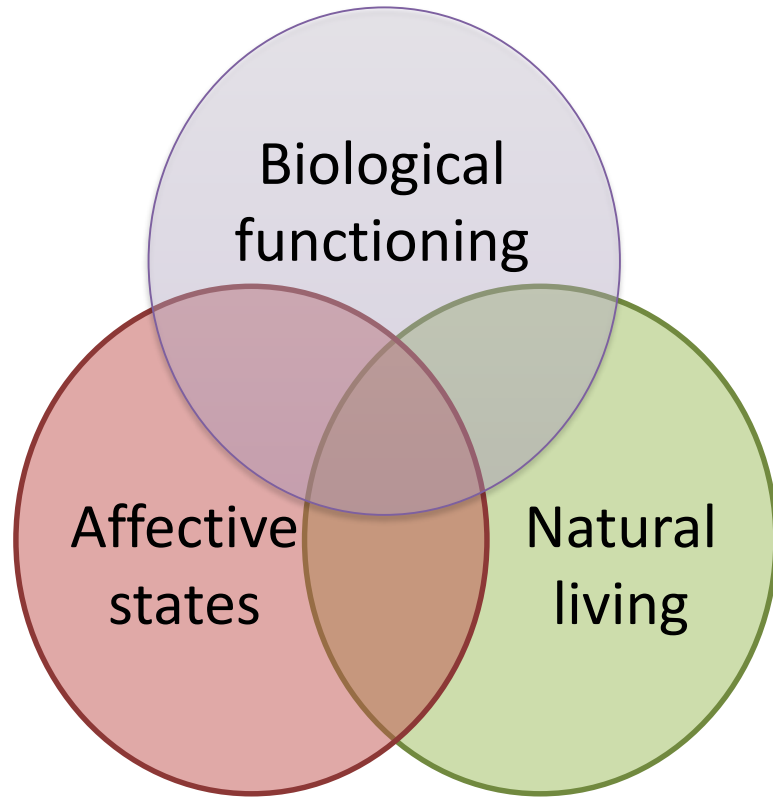
A changing role for ~~the~~^{an} animal scientist:
Understanding and responding to societal concerns
regarding animal production practices

*Great
view!*



*Limited
view*

Values related to animal welfare



A 100-Year Review: Animal welfare in the Journal of Dairy Science





Flower & Weary, 2001. Appl. Anim. Behav. Sci. 70:275-284

Poor listener



Openness and public trust

‘Ag-gag’ laws -- prohibit taking or possessing photographs, video or audio recordings on farms without consent

Hypothesis: Awareness of ‘Ag-gag’ laws reduces the credibility of farmers and perceptions of farm animal well-being

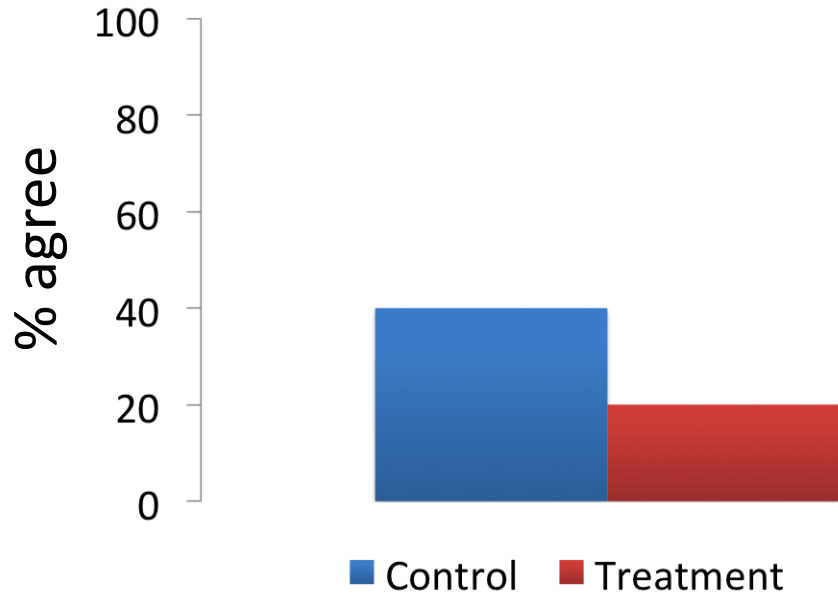
Unintended effects of the 'ag-gag' laws



Robbins et al., 2016. Food Policy 61:121–125.



Participants exposed to information about 'Ag-gag' laws were less likely to agree that:
Farm animals have good lives



Educating the public

Hypothesis: If people could see what we do and why we do it then they would be less critical



UBC Dairy Education and Research Centre Open House July 16th

Meet student researchers and learn more about the Centre's internationally renowned research and education programs in animal welfare, animal reproduction and resource recovery.

July 16th, 2016 9am-4pm
6947 Lougheed Hwy
Agassiz, BC



a place of mind
THE UNIVERSITY OF BRITISH COLUMBIA

Land and Food Systems
UBC Dairy Education and Research Centre



Some perceptions **improved** after visiting our farm:

Before

[I'm concerned about] humane treatment, cramped living conditions, access to grazing.

After

The animals seem to be well cared for...the practices on this farm seem very ethical.

And some perceptions **worsened**:

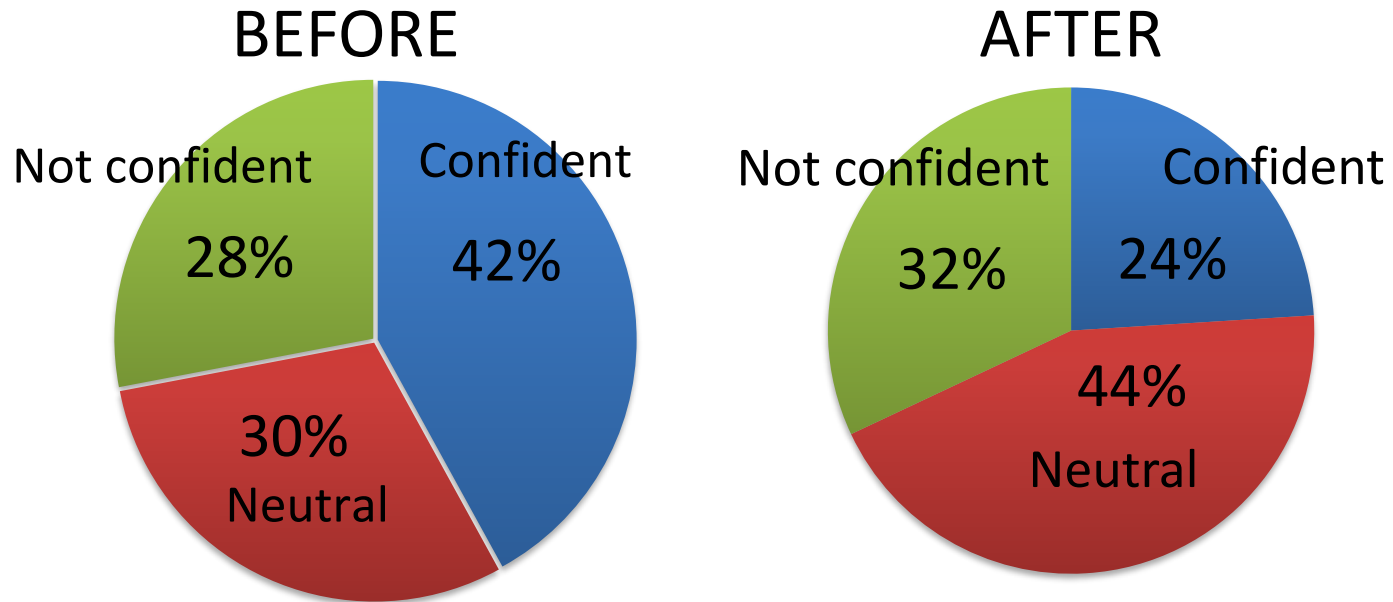
Before

I never had any concerns.

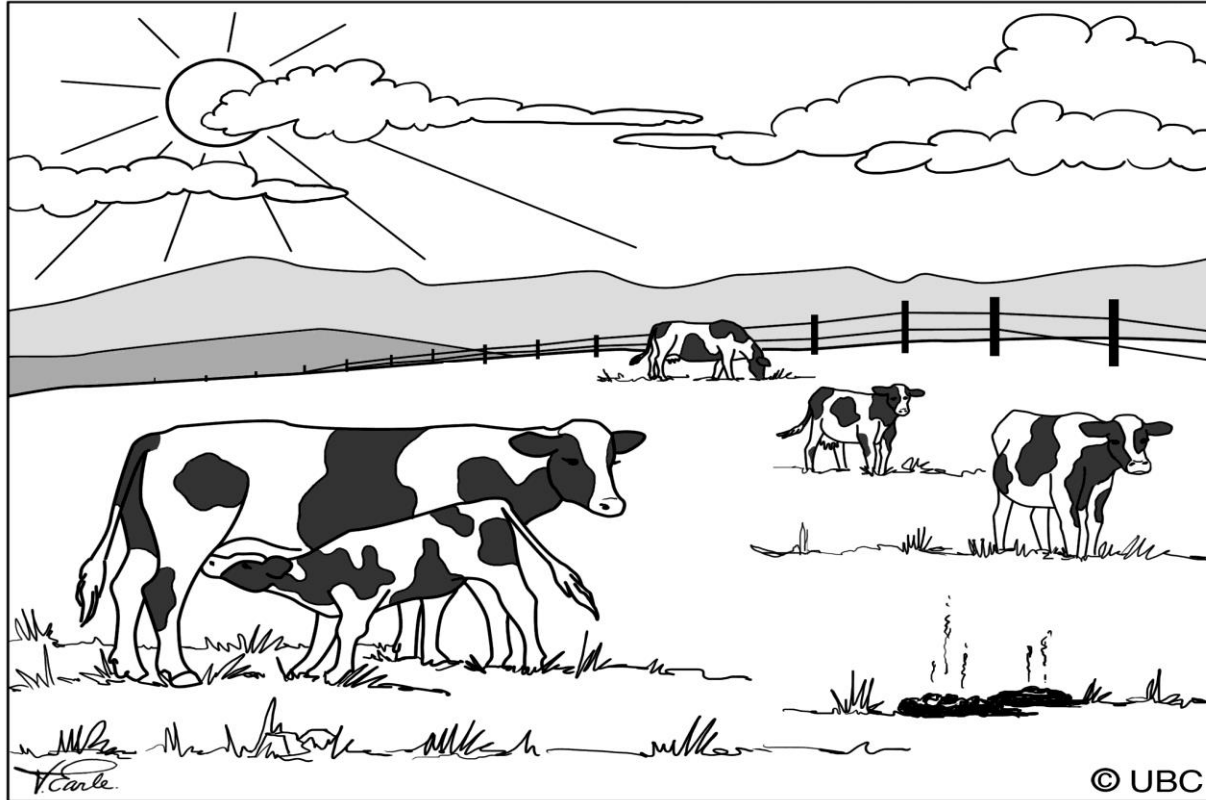
After

.... I would still prefer to see animals grazing in the fields, eating the grass and calves not separated so quickly from mothers.....

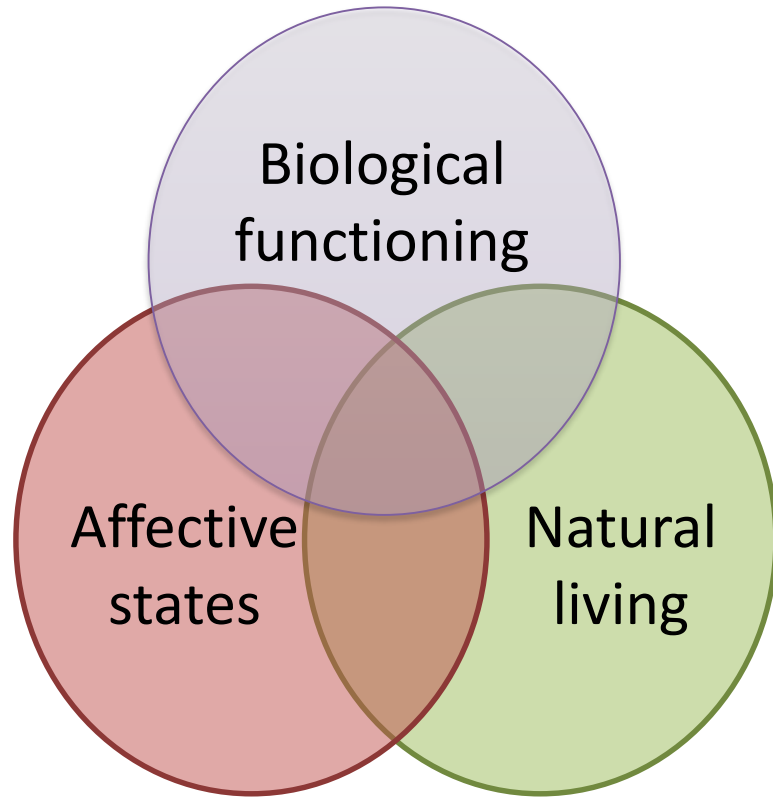
How confident are you that dairy cattle have a good life?



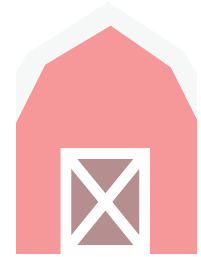
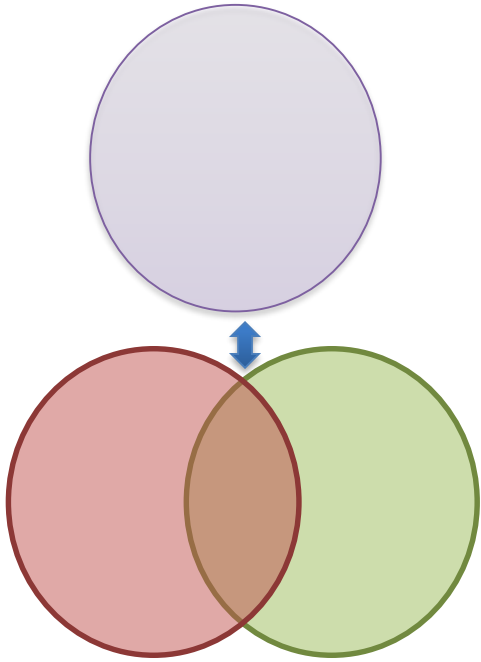
Imagining the ideal dairy farm



Values related to animal welfare



Values related to animal welfare





Engage

Improve

Reflect

Research

Naïve



Naïve

- Believes what you are told
- Accepts limitations

Naïve (1)

- Believes what you are told
 - e.g. early cow-calf separation improves the health of calves and cows

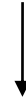


A systematic review of the effects of early cow calf separation on dairy cow and calf health

Records identified by Web of Science
($n=126$)



After screening, addition of papers from
reference sections, etc. ($n=63$)



Calves: scours ($n=12$), crypto ($n=9$), Johne's
($n=13$), immunity ($n=9$), mortality ($n=9$)
Cows: mastitis ($n=18$)

Effects of a prolonged suckling period on calf and cow health

Calf Health Condition	Positive	Mixed	Negative
<i>Scours (n=12)</i>	6	5	1
<i>Cryptosporidiosis (n=9)</i>	2	5	2
<i>Pneumonia (n=3)</i>	1	2	0
<i>Immunity (n=9)</i>	3	2	4
<i>Mortality (n=11)</i>	6	2	3
<i>Johne's disease (n=13)</i>	1	12	0
Cow Health Condition			
<i>Mastitis (n=18)</i>	11	7	0

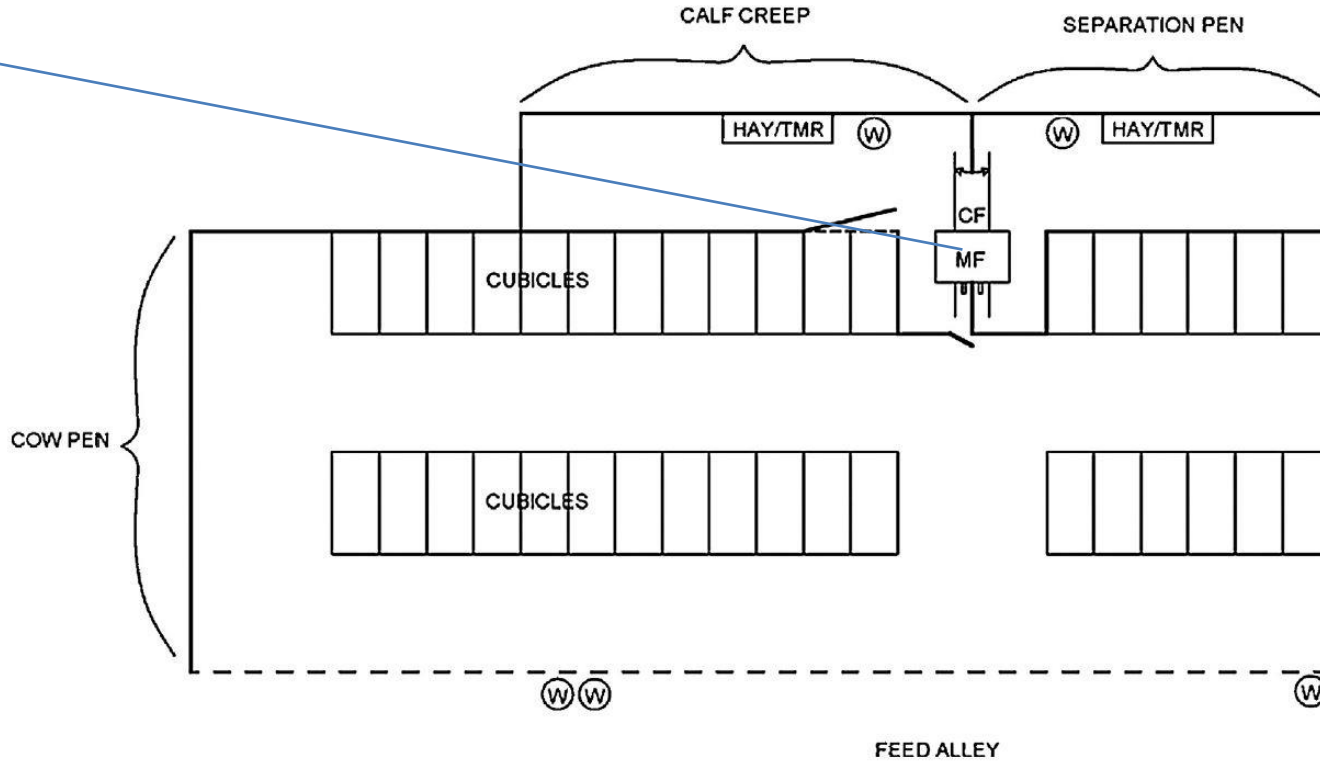
Naïve (2)

- Accepts limitations
 - e.g. late separation of cow-calf causes too much stress



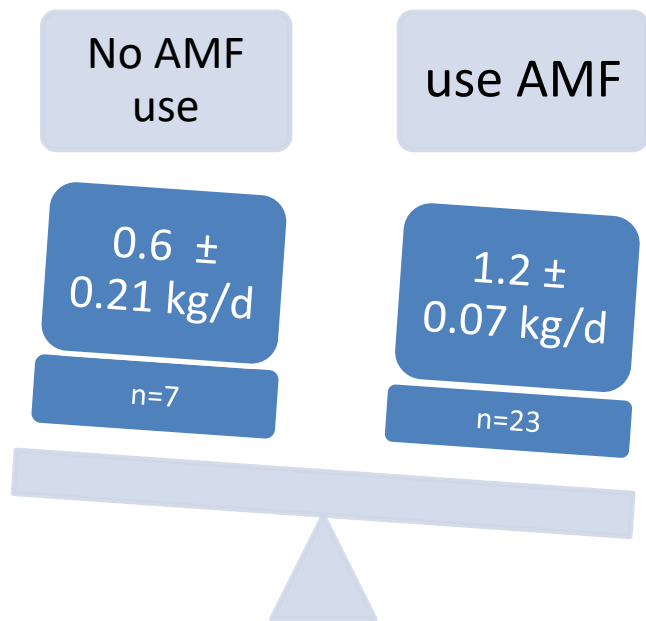
Johnsen et al., 2015. J. Dairy Sci. 98:4800-4810
Johnsen et al., 2015. Appl. Anim. Beh. Sci. 163:50-57
Johnsen et al., 2018. Appl. Anim. Behav. Sci. 201:1-6

Automated milk feeder (AMF) access for suckling calves

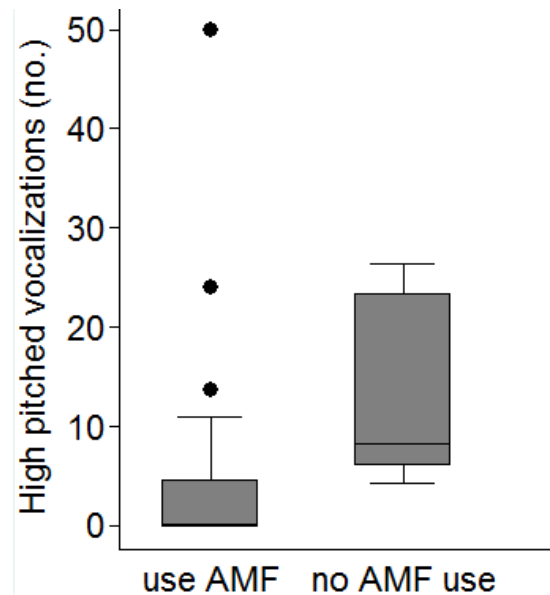


Johnsen et al., 2015. *J. Dairy Sci.* 98:4800-4810
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AMF access for suckling calves



Johnsen et al., 2015. *J. Dairy Sci.* 98:4800-4810



Johnsen et al., 2018. *Appl. Anim. Behav. Sci.* 201:1-6

in 2030

As a changed animal scientist I will:

^

- Strive to understand the perspectives of others
- Be open about what I do, why do am will do differently
- Demand good evidence before giving professional advice, and actively seek solutions rather than accept limitations





Dairy Farmers
of Canada



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