

Supplementary file B: Recording form for group level observations used during field observations made at 12 meat processing plants across New Zealand during the 2016 bobby calf season.

Individual Level Observations

Pen Number

 /

Animal Number

 /

Calf standing

 Y / N

If no, lying position

Indicators

Shivering

Yes

No

Panting

Normal respiration

20-40 breaths per minute

Mild Heat Stress

Closed mouth breathing w/ respiration elevated over 20-40 breaths/min

Panting

Open mouth breathing with respiration elevated over 40 breaths/min

Respiration Rate

breaths per minute

Hampered respiration

Coughing

Vocalisation

Vocalising?

Y / N

If yes

Rate over 2
minutesDuratio
n**Oral Behaviours**

Y / N

Manipulating an object

Manipulating a calf

Tongue Playing

Other

biting, suckling,
licking

cross-suckling

Head tilting**Head shaking****Faecal Soiling**

No

Moderately Dirty

Extremely Dirty

Injury

0

No visual
wounds/injuries

1

Hair
loss

2		Moderate swelling and/or superficial wound where skin not perforated
3		Minor cut through skin or obvious swelling
4		Wound through skin with damage to deeper tissues
5		Injury resulting in loss of function

Ocular discharge present

Y / N

If yes:

Mild

Severe

Nasal discharge present

Y / N

If yes:

Mild

Severe

Dehydration

Time for skin to return to normal after skin tent:

**General
demeanour**

Bright

Tired

Weak

Navel

Wet

Raw

Dry

Eyes

Bright

Dull

Closed

Ears

Forwards

Back

Alert

Coat	Dry	Clean	Wet	Dirty
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Hooves	Strong	Soft/undeveloped
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Sex

Breed

**Comments and
Notes**

Diarrhoea

Lesions

Lameness

Ectoparasitism

*Mucous
Membranes*