

# Research Summary

# PROTEIN SOURCE COMPARISON

## Comparison

ALL MILK PROTEIN MILK REPLACER - 25/25/19

VS.

WHEAT PROTEIN MILK REPLACER - 25/21/19

## Details

- 120 Test and 120 Control calves
- 78 day trial
- Weaned on day 49
- Weighed:
  - Day 0 – Arrival
  - Day 14 – Milk increase
  - Day 49 – Weaned
  - Day 78 – Departure

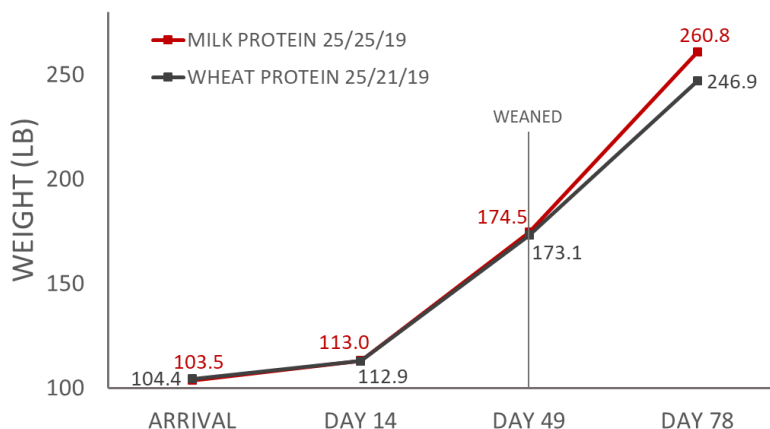
### MILK REPLACER FEEDING RATE

WEEKS 1-2	520g/DAY
WEEK 3	650g/DAY
WEEK 4-5	900g/DAY
WEEKS 6-7	450g/DAY

### GRAIN FEEDING RATE

WEEKS 1-3	CALF STARTER (18% CP)
WEEK 4	50% CALF STARTER & 50% CORN & PELLETS (18% CP)
WEEK 5-11	CORN & CONCENTRATE BLEND INCLUDING 2% CHOPPED STRAW (18% CP)

## WEIGHT GAIN



### MILK PROTEIN 25/25/19

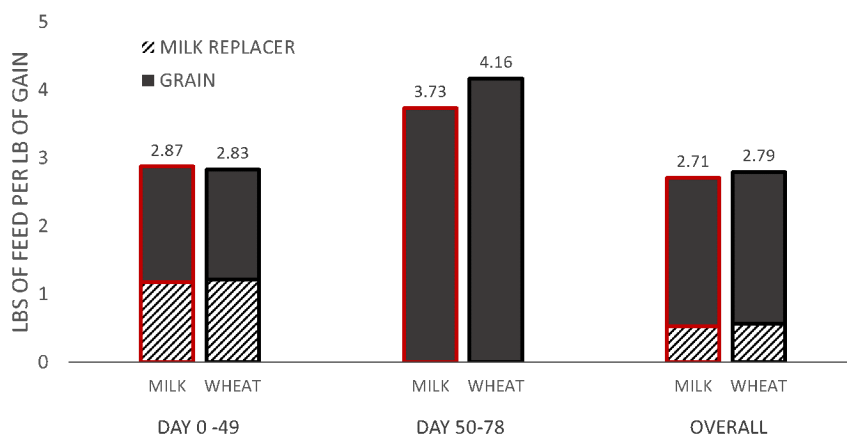
### WHEAT PROTEIN 25/21/19

ARRIVAL WEIGHT	104LB	104LB
DEPARTURE WEIGHT	261LB	247LB
AVERAGE DAILY GAIN	2.02LB	1.83LB
MILK REPLACER CONSUMPTION	30.18KG	30.27KG
GRAIN CONSUMPTION	258.4LB	251.7LB

## Results

- **10%** more weight gain
- **14lb** gain advantage at 78 days
- **0.19lb/day** increase in average daily gain at weaning
- Improved feed efficiency, requiring **12%** less grain per lb of gain after weaning

## FEED CONVERSION



## Conclusion

When comparing the 25/25/19 All Milk Protein milk replacer to the 25/21/19 Wheat Protein milk replacer, the calves fed the milk protein formula gained more, and had greater feed efficiency than those fed the wheat protein formula.