



Canadian Simmental Association Ultrasound Report

How to Read the Report

The Ultrasound report is presented in contemporary group, tag number order.

Tattoo – the Tattoo/Tag of the animal

Sex – the sex of the animal

M – Male

F – Female

S – Steer

Scan Date D/M/Y – date animal was scanned in day/month/year format

AID – the age of the animal at the time of scanning in days (Scan date – Birth date)

Wng Con Grp – the contemporary group of the animal at weaning. This forms the starting point for the scan contemporary group.

Scan Grp – the group of cattle that were scanned

Con Grp – the scanning contemporary group. Groups are split by sex, percent Simmental, embryo, twins, and weaning contemporary group definitions.

Scan Weight (LBS) - the weight of the animal in pounds on the date of scanning

Rump Fat (in) (mm)– the measured rump fat in inches and millimetres

Rib Fat

Actual (in) (mm)– the measured rib fat in inches and millimetres

Adjusted (in) (mm) – the age and weight adjusted rib fat in inches and millimetres

Idx – the index of adjusted rib fat within the contemporary group

REA – Rib-Eye Area

Act (in SQ) – the actual Rib-Eye Area in square inches

Adj (in SQ) – the age and weight adjusted rib-eye area in square inches

Idx – the index of adjusted rib-eye area within the contemporary group

IMF – Intramuscular Fat (Marbling)

Act (%) – the measured percent intramuscular fat

Adj (%) – the weight adjusted intramuscular fat measurement

Idx – the index of percent intramuscular fat within the contemporary group

Lean Yield (%) – the calculated lean yield in percent

Average – the average of the contemporary group.

Min – the minimum value in the contemporary group

Max – the maximum value in the contemporary group

Calves may not receive adjusted values and/or indexes if they have not had weaning information reported, are embryo calves, or are in a contemporary group of too few animals. Producers are encouraged to refer to weaning and yearling reports to help determine reasons for ultrasound contemporary groupings.

More information on CSA Ultrasound Guidelines can be found at www.simmental.com.

Equations:

Males

Rib Fat

$$= 0.000149 \times (365 - \text{Scan Age}) + \text{Rib Fat Act}$$

REA

$$= 0.01668 \times (365 - \text{Scan Age}) + \text{REA Act}$$

IMF

$$= 0.000 \times (365 - \text{Scan Age}) + \text{IMF Act}$$

Females

Rib Fat

$$= 0.000218 \times (365 - \text{Scan Age}) + \text{Rib Fat Act}$$

REA

$$= 0.00968 \times (365 - \text{Scan Age}) + \text{REA Act}$$

IMF

$$= 0.003111 \times (365 - \text{Scan Age}) + \text{IMF Act}$$

Lean Yield (Male and Female)

$$= 59.931 - (0.952 \times \text{Rib Fat Actual}) + (0.112 \times \text{REA Act})$$

The Lean Yield Equation uses Rib Fat in millimetres (mm) and Rib-Eye Area in square centimetres (cm²)

Index (Male and Female)

$$\text{Idx} = (\text{Adjusted Value} / \text{Contemporary Group Average Adjusted Value}) \times 100$$

Conversion factors:

1 inch = 25.4 millimetres

1 square inch = 6.4516 square centimetres