

# PAP RISK FACTOR CHART - WESTERN SLOPE ANGUS ASSOCIATION

Recommendations given below based on elevation of the PAP Test and predicted elevation of the animals use.

## PAP RISK FACTOR LOW ELEVATION TEST CHART PAP TEST CONDUCTED AT ELEVATION <4,000 FT (40% Repeatable, Predictive Value)

PAP Measurements taken below 4,000 feet elevation should be considered a screening measurement only and the measurement not used for sale purposes

PAP Score	Use at Low Elevation (<4,000 feet)	Use at Moderate Elevation (4,000 - 5,500 feet)	Use at High Elevation (5,500-7,500 feet)	Use at Extreme (>7,500)
34-39	Low Risk	Low Risk	Moderate Risk	Moderate Risk
40-45	Low Risk	Moderate Risk	High Risk	High Risk
46-49	Moderate Risk	High Risk	Do Not Use	Do Not Use
>50	Moderate Risk	High Risk	Do Not Use	Do Not Use

## PAP RISK FACTOR LOW ELEVATION TEST CHART PAP TEST CONDUCTED AT ELEVATION 4,000-5,500 FT (60% Repeatable, Predictive Value)

PAP Score	Use at Low Elevation (<4,000 feet)	Use at Moderate Elevation (4,000 - 5,500 feet)	Use at High Elevation (5,500-7,500 feet)	Use at Extreme (>7,500)
34-39	Low Risk	Low Risk	Low Risk	Low Risk
40-45	Low Risk	Low Risk	Moderate Risk	Moderate Risk
46-49	Moderate Risk	High Risk	Do Not Use	Do Not Use
>50	Moderate Risk	High Risk	Do Not Use	Do Not Use

## PAP RISK FACTOR LOW ELEVATION TEST CHART PAP TEST CONDUCTED AT ELEVATION 5,500-7,000 FT (75-95% Repeatable, Predictive Value)

PAP Score	Use at Low Elevation (<4,000 feet)	Use at Moderate Elevation (4,000 - 5,500 feet)	Use at High Elevation (5,500-7,500 feet)	Use at Extreme (>7,500)
34-39	Low Risk	Low Risk	Low Risk	Low Risk
40-45	Low Risk	Low Risk	Low/Moderate Risk	Low/Moderate Risk
46-49	Moderate Risk	Moderate Risk	Moderate Risk	High Risk
>50	Moderate Risk	Moderate Risk	High Risk	High Risk

## PAP RISK FACTOR LOW ELEVATION TEST CHART PAP TEST CONDUCTED AT ELEVATION >7,000 FT (95% Repeatable, Predictive Value)

PAP Score	Use at Low Elevation (<4,000 feet)	Use at Moderate Elevation (4,000 - 5,500 feet)	Use at High Elevation (5,500-7,500 feet)	Use at Extreme (>7,500)
34-39	Low Risk	Low Risk	Low Risk	Low Risk
40-45	Low Risk	Low Risk	Low Risk	Low Risk
46-49	Moderate Risk	Moderate Risk	Moderate Risk	Moderate Risk
>50	Moderate Risk	Moderate Risk	High Risk	High Risk

\*When selecting an animal based on a PAP measurement other factors besides those listed above should be considered such as genetics or pedigree, PAP EPDs, Systolic/Diastolic pressures, breed, and previous illness

\*Special consideration should be given to the amount of time the animal was exposed to elevation (>5500 ft) prior to testing. The predictability and repeatability of the PAP measurement improves with longer the exposure to higher elevation.

\*This chart is based on animals greater than 10 months of age. Testing older animals (>12 months) results in a higher predictive and repeatability measurement.

\*Testing of younger animals (<10 months) may result in a greater variability to the predictive and repeatability measurement

### Definitions:

\*Repeatable or Repeatability percent - this is a term used to give strength to a given PAP score predicting that if a retest PAP was carried out later in life then the score would be close to or within the same category as the original measurement. For example; a PAP measurement taken below 4,000 feet only has a 40% repeatable percent meaning that a repeat test only has a 40% chance of staying within the same risk category as the original test.

\*Predictive value - this term is closely related to repeatability percent but specifically says that the original score can accurately predict what that animal will retest in a high elevation.

\*Risk - Defined as the likelihood of an animal developing pulmonary hypertension themselves or being at risk for having a genetic predisposition for the disease.