

BALANCING RATIONS FOR POSITIVE DCAD

WHY IT MATTERS AND HOW TO DO IT

FEEDING A LACTATING RATION PROPERLY BALANCED FOR DIETARY CATION-ANION DIFFERENCE (DCAD) IS CRITICAL.

DCAD MEASURES THE LEVELS OF FOUR MACROMINERALS IN THE DIET: POSITIVELY CHARGED CATIONS, POTASSIUM (K) AND SODIUM (NA), AND NEGATIVELY CHARGED ANIONS, CHLORIDE (CL) AND SULFUR (S). BY COMBINING THESE CHARGES THE RATION DCAD NUMBER IS DETERMINED.







Achieving a positive DCAD can help neutralize blood acid load caused by high milk production, ketone development and free fatty acids from body fat mobilization. Increasing the K component of DCAD will help replace what is lost through increased milk production. The optimum DCAD range for high-producing cows is +35 to +45 meg/100g dry matter.

