

Software Updates: Beef Cattle Nutrient Requirements Model (BCNRM) 2016

An improved version of the BCNRM 2016 software (1.0.37.21) is now available. If you are using a version downloaded prior to April 8, 2024, please download and install the latest version.

Listed below are the improvements that have been made to the BCNRM software since May 2016.

Date	Improvement(s)
2024	
April 8, 2024 (1.0.37.21)	Fixed N:S ratio
2023	
July 18, 2023 (1.0.37.20)	Fixed automatic calculation and updating in the Home sheet.
July 8, 2023 (1.0.37.19)	<ol style="list-style-type: none">1. BCNRM checks for an update when start.2. Updated the NANP website address.
July 4, 2023 (1.0.37.18)	<ol style="list-style-type: none">1. Improved the formatting speed of checkboxes in the Feeds spreadsheet.2. Added the 'Refresh' button in the Feeds toolbar to update the checkboxes.
2022	
September 26, 2022 (1.0.37.17)	<ol style="list-style-type: none">1. Fixed errors when loading non-stochastic modeling.2. Improved reading folder names containing Chinese, Japanese, and Korean characters.3. Fixed the comparison of original and modified parameters.
2021	
December 2, 2021 (1.0.37.16)	<ol style="list-style-type: none">1. Fixed errors in the stochastic modeling.2. Created a version of BCNRM2016 compatible with @Risk 8.x. This version is in the "\\Program Files (x86)\National Academies\BCNRM2016" folder.
2020	
September 5, 2020 (1.0.37.15)	Fixed as-fed percentages in Table O1.
2018	
November 13, 2018 (1.0.37.14)	<ol style="list-style-type: none">1. Improved compatibility with Office 365 and x64 version.2. Fixed maximum tolerable values for Ca and P, and descriptions in Table R7.
September 5, 2018 (1.0.37.13)	Fixed MP allowable milk units.

- August 10, 2018 (1.0.37.12) Improved prediction logic of mineral requirements for lactating and pregnant cows.
- March 25, 2018 (1.0.37.11)
 1. Fixed inconsistencies with high DPI monitors.
 2. Allow users to change MP requirement (Table R1). Default is 3.8.
- 2017**
- October 19, 2017 (1.0.37.10)
 1. Fixed Chlorine requirement equation for lactating animals. There is no requirement.
 2. Included lactation length for breed types 1, 2, 3, and 4 in cells L103 to L106 in the Calc spreadsheet.
 3. Fixed the Copy option of some feed composition to the user feed library.
- February 17, 2017 (1.0.37.9) Fixed version of the 2016 BCNRM.
- February 4, 2017 (1.0.37.8) Improved the visual of the Optimizer.
- January 15, 2017 (1.0.37.7)
 1. Fixed the phosphorus and magnesium values of the standard feed library of the 2016 BCNRM.
 2. Added Imperial units in Table 2.2.
- 2016**
- September 20, 2016 (1.0.37.6)
 1. (ELS) The intestinal digestibility (ID) of RUP is by default 80% for concentrate (feeds with less than 100% forage) or 60% for forages. The user may change these ID at cells BH91 and BH92, respectively, in the "Calc" spreadsheet (Ribbon: Calculation/Supply). If the user enters zero (0) for RUP ID, the BCNRM will use the individual RUP ID from the feed composition table (i.e., PBID) for the respective feed class (concentrate or forage).
 2. Fixed negative target ADG for replacement heifers when current SBW was greater than the target SBW. In this case, when current SBW is greater than target SBW, BCNRM uses the predicted gravid uterus ADG as the target ADG for replacement heifers.
- August 11, 2016 (1.0.37.5)
 1. Fixed SaveAs simulations.
 2. Fixed optimizer MAX constraints for feed ingredients.
 3. Fixed DMIR not restoring the previous diet after optimization.
- July 6, 2016 (1.0.37.4)
 1. Fixed pH calculation (Eq. 19-180).
 2. Fixed the location of the Option Boxes (Amount and Percentage) in the Diet section.

June 30, 2016 (1.0.37.3)	(MLS) Fixed calculation of bacterial mass (BACT) from carbohydrate fraction B3.
June 15, 2016 (1.0.37.2)	Fixed Load/Save simulation when incorrect file is selected.
May 31, 2016 (1.0.37.1)	<ol style="list-style-type: none">1. (ELS) Fixed Excel formula to compute MCP when diet EE > 3.9 % DM.2. Changed website addresses for automatic update.
May 20, 2016 (1.0.37)	<ol style="list-style-type: none">1. Activated cell formatting alert (yellow/red) for unlikely combination of animal class and sex.2. (MLS) Set bacteria ash content to 4.4%.3. (ELS) Calculation of MCP is applied to the diet and proportionally allocated to each diet ingredient based on their TDN amounts (AK90:AK112).4. Removed auxiliary calculations from the Calc spreadsheet. <hr/>