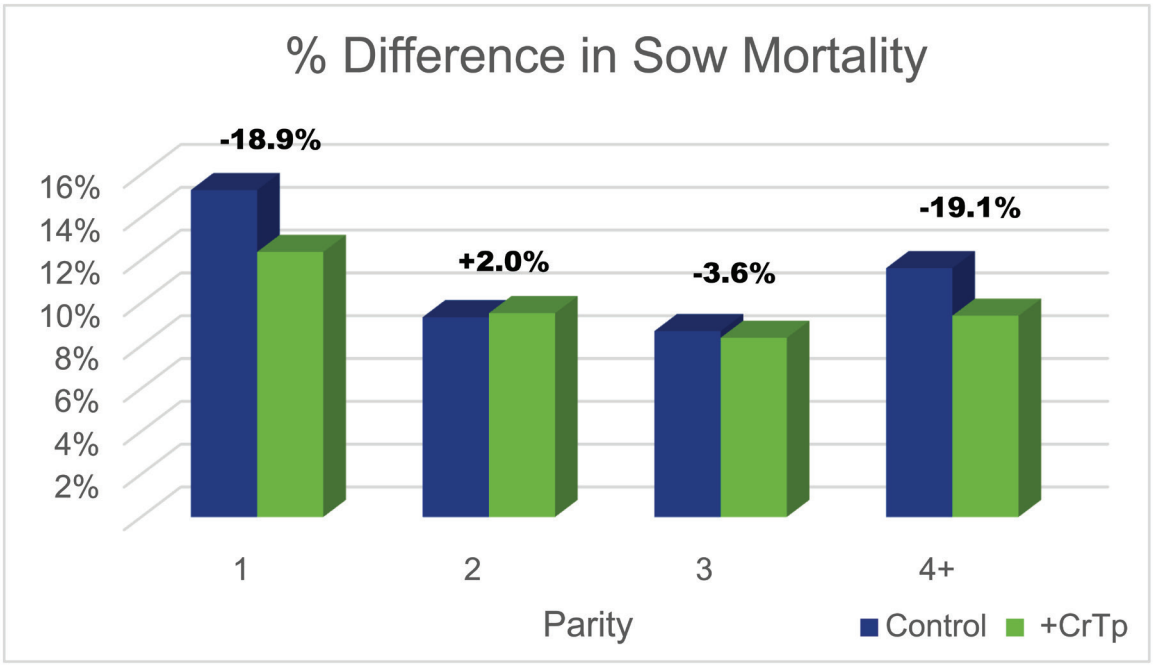
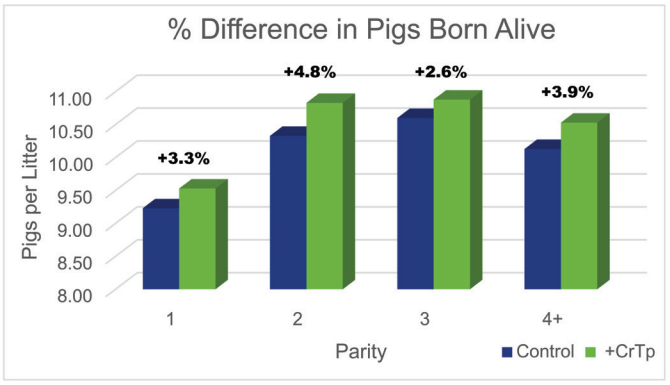
PHI-CHROME®

Chromium Supplementation in Sow Diets

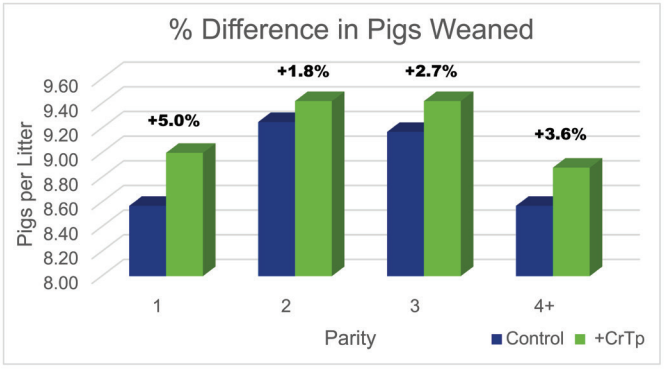
Sow mortality is arguably the most significant challenge in swine production today.
Operations are losing sows at unsustainable rates, bringing significant financial and productive loss.



Total Mortality ($P = 0.11$)
Combined Sow Mortality: 10.95% (Control) vs. 9.38% (+CrTp)
Hagen et al., 2000



Pigs Born Alive per Litter ($P = 0.02$)
10.05% (Control) vs. 10.42% (+CrTp)
Hagen et al., 2000



Pigs Weaned per Litter ($P = 0.02$)
8.75% (Control) vs. 9.08% (+CrTp)
Hagen et al., 2000

In the study above, dietary supplementation of 200 ppb chromium tripicolinate (CrTp) had a positive impact on number of pigs born alive and weaned, and sow mortality.[1]
Cr supplementation has been extensively researched in sow diets for its benefits in helping improve insulin sensitivity and glucose metabolism.[2,3] Sows' ability to control blood glucose levels is lower during pregnancy, which could influence higher rates of newborn pig mortality.[4]

1. C.D. Hagen, M.D. Lindemann, and K.W. Purser. Effect of Dietary Chromium Tripicolinate on Productively of Sows under Commercial Conditions. Swine Health Prod. Vol 8 (2000) 59-63.
2. Anderson, R.A. and A.S. Kozlovsky. Chromium intake, absorption and excretion of subjects consuming self-selected diets. Am. J. Clin. Nutr. Vol. 41 (1985) 1177-1183.
3. Amoikon, E.K., J.M. Fernandez, L.L. Southern, D.L. Thompson, T.L. Ward, Jr. Effect of chromium tripicolinate on growth, glucose tolerance, insulin sensitivity, plasma metabolites, and growth hormone in pigs. J. Anim. Sci. Vol. 73 (1995) 1123-1130.
4. Kemp B., Soede N.M., Vesseur P.C., Helmond F.A., Spoorenberg I.H., and Frankena K. Glucose tolerance of pregnant sows is related to postnatal pig mortality. J. Anim. Sci. Vol. 74 (1996) 879-885.

Supplementing Cr at 200 ppb has been shown to help:

Sow Mortality[1,2]

Stillborn & Mummied[3]

Abortions[1]

Live Pigs Born[3]

Total Piglets Born[3]

First-Service Farrowing Rate[1,4]

1. Campbell, R.G. The effects of chromium picolinate on the fertility and fecundity of sows under commercial conditions. (1996) Proc. Of the 16th Annual Prince Feed Ingredient Conference. Quincy, IL.
2. Evans, G.W. and L. Meyter. Chromium picolinate increases longevity. Age. Vol 15 (1992) 134.
3. C.D. Hagen, M.D. Lindemann, and K.W. Purser. Effect of Dietary Chromium Tripicolinate on Productivity of Sows under Commercial Conditions. Swine Health Prod. Vol 8 (2000) 59-63.
4. D.E. Real, J.L. Nelssen, M.D. Tokach, R.D. Goodband, S.S. Dritz, J.C. Woodworth, and K.Q. Owen. Additive effects of L-Carnitine and chromium picolinate on sow reproductive performance. Livestock Science Vol. 116 (2008) 63-69.

Average Investment

less than

per sow per year

Estimated ROI

5:1*

Based on economic analysis of Hagen et al., 2000.

**Not a guarantee of performance.*

Chromium propionate & tripicolinate trace mineral products

Manufactured in the USA

Feeding Rate: 200 ppb

Scan for additional product information

HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.®

Phibro ANIMAL HEALTH CORPORATION®