# A \$1 billion bill the beef industry foots every year

## **BRD's economic impact**

- Affects more than one in five head every year3
- Costs beef industry \$1 billion annually, due to lost performance, treatment and death<sup>1,2</sup>
- Instances aren't decreasing<sup>4,5</sup>, despite improved vaccination programs, cattle genetics and management practices
- Decreases carcass weight and value on the rail6

### What is BRD?

It's a multifactorial disease complex of the upper and lower respiratory system and includes common respiratory illnesses like shipping fever and pneumonia. A bacterial and/or viral infection cause BRD, but risk factors like stress and extreme weather act as a catalyst for the disease. Common bacterial and viral infections include:

### **Viral Infection**

- Bovine respiratory syncytial virus
- Parainfluenza 3
- Adenovirus
- Infectious bovine rhinotracheitis

### **Bacterial Infection**

- Manheimia haemolytica
- Pasteurella multocida
- Histophilus somni
- Mycoplasma bovis



## Stack the deck against BRD. Visit purinamills.com/weaning for more information about calf health and nutrition.



<sup>&</sup>lt;sup>1</sup>Brodersen BW. Bovine respiratory syncytial virus. Vet Clin North Am Food Anim Pract. 2010;26(2):323-333.

<sup>&</sup>lt;sup>2</sup> Griffin D, Chengappa MM, Kuszak J, McVey DS. Bacterial pathogens of the bovine respiratory disease complex. Vet Clin North Am Food Anim Pract. 2010;26(2):381-394.

<sup>&</sup>lt;sup>3</sup> Brooks KR, Raper KC, Ward CE, Holland BP, Krehbiel CR, Step DL. Economic Effects of Bovine Respiratory Disease on Feedlot Cattle During Backgrounding and Finishing Phases. http://pods.dasnr.okstate.edu/ docushare/dsweb/Get/Document-6830/P-1027%20Economic%20Effect%20of%20BRD1.pdf. Accessed May 5, 2017.

<sup>&</sup>lt;sup>4</sup>USDA APHIS. 1999. Health Management and Biosecurity in U.S. Feedlots. Accessed on March 6, 2019. https://www.aphis.usda.gov/animal\_health/nahms/feedlot/downloads/feedlot99/Feedlot99\_dr\_PartIll.pdf.

<sup>&</sup>lt;sup>5</sup> USDA APHIS. 2011. Health and Health Management on U.S. Feedlots with a Capacity of 1,000 or More Head. Accessed on March 6, 2019. https://www.aphis.usda.gov/animal\_health/nahms/feedlot/downloads/feedlot/2011/Feed11\_dr\_PartIV.pdf.

<sup>&</sup>lt;sup>6</sup> Schneider MJ, Tait RG, Busby WD, Reecy JM. An evaluation of bovine respiratory disease complex in feedlot cattle: Impact on performance and carcass traits using treatment records and lung lesion scores. J. Anim. Sci. 2009;87:1821-1827.