



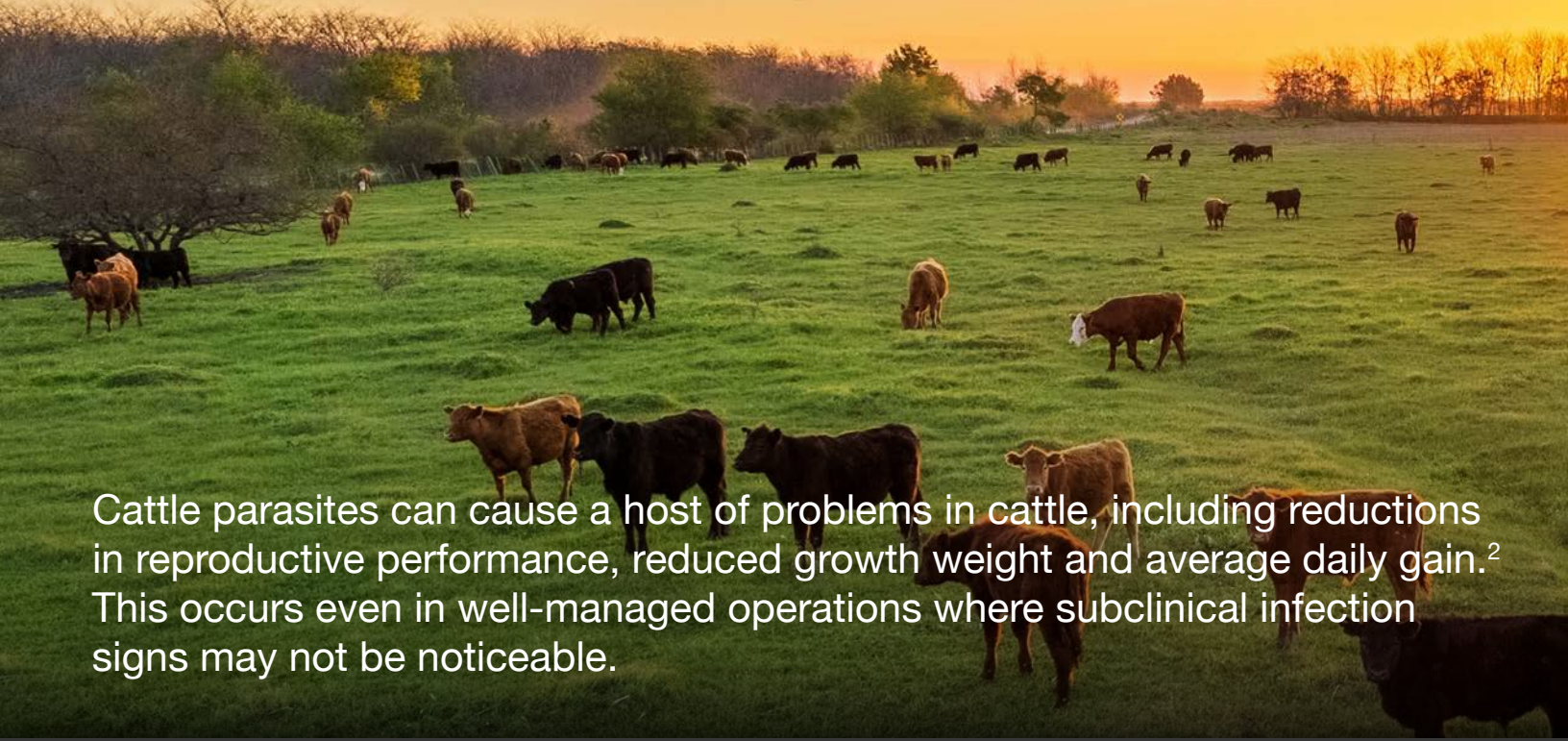
CYDECTIN[®]
(moxidectin) Pour-On

The leader in parasite control.¹

Right for cattle. Right by you.

Elanco

TM



Cattle parasites can cause a host of problems in cattle, including reductions in reproductive performance, reduced growth weight and average daily gain.² This occurs even in well-managed operations where subclinical infection signs may not be noticeable.

Subclinical signs^{1,2}



- Reduced reproductive performance
- Reduced growth weight
- Reduced weaning weight

Clinical signs³

- Pale mucous membranes
- Bottle jaw
- Pot belly
- Diarrhea
- Drawn appearance
- Not grazing or chewing cud
- Rough and dry haircoat
- Thinness, weakness and inability to stand

Without dewormers, researchers have estimated cow-calf producers would see breakeven costs increase by \$165 per head.³ Adding in stockyard and feedyard costs, the impact of eliminating dewormers on breakeven prices totaled \$190 per head.³

Completely different

The active ingredient in Cydectin® Pour-On, moxidectin, has a completely different molecular structure than other macrocyclic lactone class dewormers. This allows for better absorption into both the infected tissues of the animal and into the parasite. Cydectin is the pioneer moxidectin dewormer and has demonstrated its effectiveness for decades, providing broad-spectrum control of internal and external parasites.

At least two studies have demonstrated potential differences in effectiveness between pioneer dewormers and their generic formulations.^{4,5} These studies would bring to question equal effectiveness may not follow equal formulation.

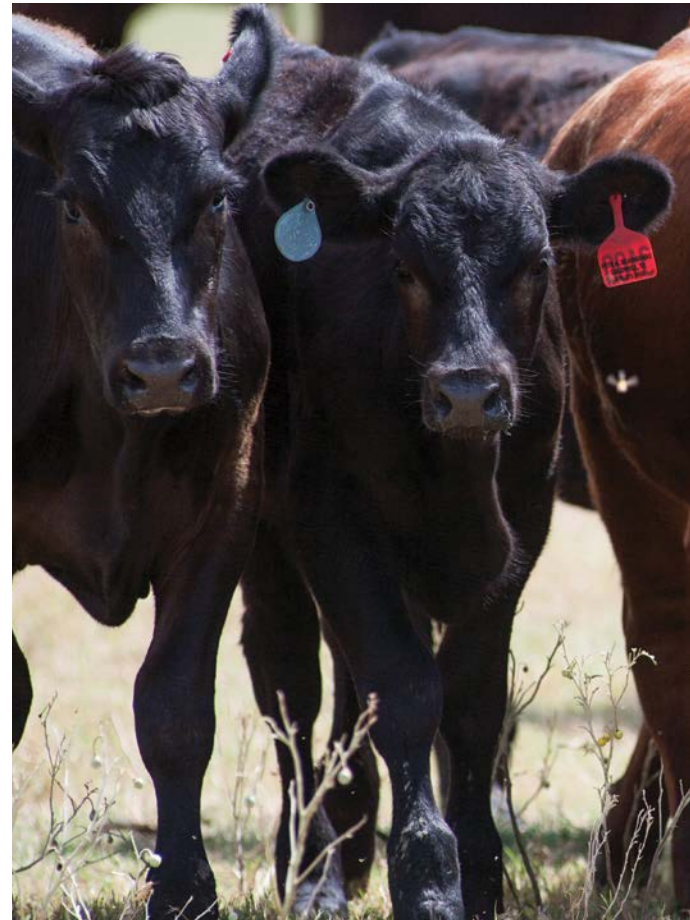
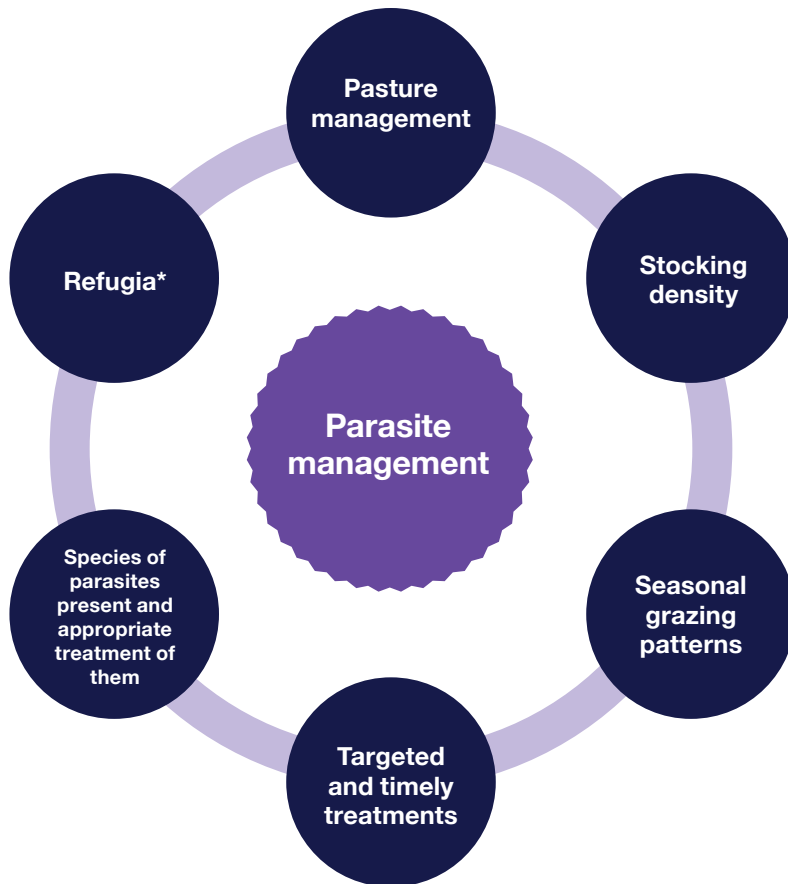


The importance of strategic deworming

While they are a proven management tool, using dewormers comes with the duty of preserving their effectiveness. By using Cydectin responsibly, producers can decrease the risk of resistant parasites and increase the effectiveness of their deworming protocols in the animals of greatest value and highest risk: young stock.

A successful strategic deworming program considers a producer's geographic location, parasite species present and the age and conditions of the animal. Remember: Parasite management is a big-picture approach to internal parasites that includes several factors.

Parasite management doesn't just happen in the chute



*What's refugia?

Refugia is a deworming strategy to maintain some level of untreated sensitive parasite larvae on pastures to reduce the selection pressure for resistance from repeated deworming. Capitalizing the ability of mature cattle to develop some degree of immunity to parasitism, Elanco has developed a refugia strategy called "4 Score and 3 Years" for use in cattle. This strategy leaves mature cattle > 3 years of age and in body condition > 4.5 untreated to provide refugia.

Five key reasons to choose Cydectin Pour-On

1 Convenient

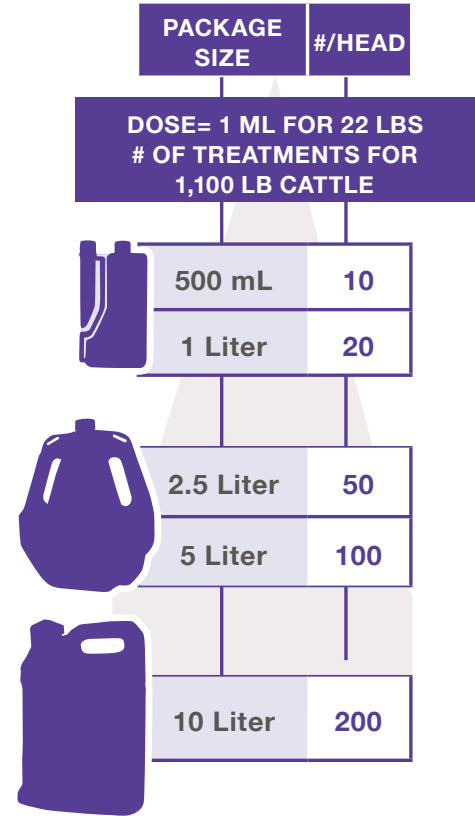
Cydectin Pour-On is easy to use and offers multiple benefits.

- Zero milk/meat withdrawal allows for flexibility in treatment timing when used according to label instructions.
- The purple dye helps to identify treated cattle.
- Weatherproof, oil-based formulation helps keep rain from washing away your investment or dictating your schedule.
- Five convenient package sizes to fit all sizes of operations.

2 Controls and protects

Cydectin Pour-On provides producers control and a line of defense against the most economically significant parasites. The trusted dewormer:

- Protects against 33 species and stages of internal and external parasites.
- Has been proven to effectively control infections and protect from reinfection with *Haemonchus placei* for 14 days after treatment, *Oesophagostomum radiatum* and *Ostertagia ostertagi* for 28 days after treatment and *Dictyocaulus viviparus* for 42 days after treatment.



	Cydectin (moxidectin) Pour-On	Eprinex® (eprinomectin) Pour-On	Ivomec® (ivermectin) Pour-On	Dectomax® (doramectin) Pour-On
Brown Stomach Worm (<i>Ostertagia ostertagi</i>)	28 DAYS	-	28 DAYS	28 DAYS
Lungworm (<i>Dictyocaulus viviparus</i>)	42 DAYS	21 DAYS	28 DAYS	28 DAYS
Nodular Worm (<i>Oesophagostomum radiatum</i>)	28 DAYS	-	28 DAYS	28 DAYS
Barber's Pole Worm (<i>Haemonchus placei</i>)	14 DAYS	-	35 DAYS	35 DAYS

Based on 12/15/2023 label comparisons to Cydectin.



3 Proven in head-to-head trial

When used according to label directions, Cydectin Pour-On numerically increased weight gain and additional profit per head outperforming other common dewormers.⁶

- +57 lbs. and \$76/head more than untreated controls.*
- +29 lbs. and \$42/head more than Ivomec® Pour-On* (ivermectin).
- +15 lbs. and \$20/head more than Dectomax® Pour-On (doramectin).
- +10 lbs. and \$13/head more than Eprinex® Pour-On (eprinomectin).

*Significantly greater (P < 0.05)

4 Dung beetle and earthworm friendly

- Earthworms and dung beetles play a vital role in pasture management, recycling cattle dung, improving soil health and keeping other cattle parasites in check.
- Dung beetles provide an estimated \$380 million of economic benefits annually in the U.S., translating to \$11.87 per head.⁷
- Earthworms can turn over an estimated six inches of topsoil in 10 to 20 years.⁸



5 Part of a complete mange, lice and fly control plan

- **Cydectin Pour-On** is the only pour-on labeled to control *Psoroptes ovis* (*P. ovis*) and the chorioptic tail head mange mite, *Chorioptes bovis* (*C. bovis*).
- Kills four species of biting and sucking lice, providing an added knockdown for lice early in the lice season. This approach can help keep them at bay until winter treatment with a lice control product.
- Provides seven days of persistent activity against horn flies.

Cydectin[®] (moxidectin) Pour-On

is the #1-selling pour-on cattle dewormer¹



	MILBEMYCIN	AVERMECTIN		
	Cydectin Pour-On (moxidectin)	Ivomec [®] Pour-On (ivermectin)	Dectomax [®] Pour-On (doramectin)	Eprinex [®] Pour-On (eprinomectin)
Has a unique molecular structure not found in other dewormers	YES	—	—	—
Provides 28 days of persistent activity against brown stomach worm (<i>Ostertagia ostertagi</i>)	YES	—	YES	—
Approved for zero slaughter withdrawal	YES	—	—	YES
Approved for zero milk discard	YES	—	—	YES
Features a highly visible purple marker dye	YES	—	—	—
Weatherproof	YES	—	YES	YES
Non-Flamable	YES	—	—	—
Earthworm and dung beetle friendly ²	YES	—	—	—

Based on 12/15/2023 label comparisons to Cydectin.

Cydectin, along with the entire Elanco product line for cattle, is supported by knowledgeable sales representatives and Elanco technical consultants. Our aim is to help operations establish and achieve their herd health, economic productivity and operational sustainability goals.

Keep Cydectin out of reach of children.

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¹ Elanco Animal Health. Data on File.

² Stromberg B, et al. Production responses following strategic parasite control in a beef cow/calf herd. *Vet Parasitol.* 1997;68(4):315-322.

³ Lawrence JD, Ibarburu MA. Economic analysis of pharmaceutical technologies in modern beef production. Proceedings of the NCCC-134 Conference on Applied Commodity Price Analysis, Forecasting, and Market Risk Management. Chicago, IL. 2007. Available at: <http://www.farmdoc.uiuc.edu/nccc134>.

⁴ Lifschitz A, Sallovitz J, Imperiale F, et al. Pharmacokinetic evaluation of four ivermectin generic formulations in calves. *Vet Parasitol.* 2004;119(2-3):247-57.

⁵ Yazwinski TA, Tucker CA, Miles DG, et al. Evaluation of generic injectable ivermectin for control of nematodiasis in feedlot heifers. *Bov Pract.* 46(1):60-65.

⁶ Williams JC, et al. A comparison of persistent anthelmintic efficacy of topical formulations of doramectin, ivermectin, eprinomectin and moxidectin against naturally acquired nematode infections of beef calves. *Vet Parasitol.* 1999;85:277-288

⁷ Losey J, Vaughan M. The economic value of ecological services provided by insects. *BioScience* 2006;56(4):311-323.

⁸ Hoorman J. Earthworms enhance soil tilth and fertility. *Ohio Country Journal.* 2020. Available at: <https://ocj.com/2020/06/earthworms-enhance-soil-tilth-and-fertility/>.

Visit CydectinBeef.com or talk to your local Elanco representative about implementing Cydectin Pour-On into your strategic deworming protocol.

