

Erickson, P. June 27, 2001.

From: Pete Erickson <peter.erickson@unh.edu>
To: "Victor Frankenthaler" <Vpf@tamsconsultants.com>
Date: 6/27/01 4:23PM
Subject: Re: nighttime lighting impact on dairy cattle

DocID 80217

Research indicates that cows will increase milk production by 8-10% with 16-h of light followed by 8-h of darkness. Data suggests that cows receiving more than these hours of light do not respond favorably or adversely. It also depends on the amount of light that the cow will receive at her eye- 20 foot candles is all it takes. Will you be using heavy equipment during the night? I would be concerned with the noise. Excessive stimuli such as abrupt noise may cause the cows to release epinephrine which will result in the failure for cows to let their milk down. Back to the lights, their effects on milk production also depends on the proximity to the facility. I hope this helps. If you have any more questions please contact me.
Dr. Pete Erickson

At 11:57 AM 06/27/2001 -0400, you wrote:

> I am involved in assessing the impacts of a proposed project that would
> involve nighttime river dredging and onshore sediment processing, also at
> night. The project would use nighttime lighting to illuminate some work
> areas. The project is located in a dairy farming area. Under what
> circumstances, if any, could the nighttime lighting adversely impact milk
> production? Thank you for your assistance. Victor P Frankenthaler
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