NOTES 547

Reduced a 5-year average of 7.65 tons of green forage and 3.29 tons of dry hay. These yields exceeded the averages of other cultivars both in green and dry yields. In the first cut at the 102,400 rate, ryegrass produced the largest yields in most of the other comparisons. In a few tests the 1600-pound rate was nearly as effective as 6400 pounds. Hence, loss of effectiveness of the green manure nitrogen may be at least partly due to aeration, soil temperature, moisture, and other factors. It is likely that the redox status affects the decomposition of the vetch through the aminization, ammonification, and nitrification pathways leading to nitrate production and nitrous oxide formation. This chemical change of the nitrogen that it contains.

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