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Marked in Search: #5

TI TITLE: Production of a green feed by the hydroponic method using fermented pig manure.

AU AUTHOR(S): Nikmane,-MA; Klintsare,-A-Ya.

SO SOURCE (BIBLIOGRAPHIC CITATION): Mikrobiologiya i biotekhnologiya proizvodstva kormov [edited by Beker, M.E.]. 1990, 134-144; 16 ref. Riga, Latvia; Zinatne.

PY PUBLICATION YEAR: 1990

LA LANGUAGE OF TEXT: Russian

AB ABSTRACT: Pig manure, anaerobically fermented, was used as a substitute for a culture medium containing mineral salts for growing barley as a green feed using the hydroponic method. The results showed that the fermented pig manure is a suitable substitute for mineral salt solution during hydroponic culturing of green feed crops.

DE DESCRIPTORS: Green-fodders; production-; hydroponics-; Manures-

PT PUBLICATION TYPE: Unnumbered-Part

IS INTERNATIONAL STANDARD BOOK NUMBER: 5-7966-0159-8

CAB CAB ABSTRACTS PUBLICATION DATA: ON Nutrition-Abstracts-and-Reviews.- Series-R 1992 062-04403; 7D Pig-News-and-Information 1992 013-03174

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AN ACCESSION NUMBER: N474000

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Marked in Search: #9

TI TITLE: Nutritive value of hydroponic feed and its use for feeding high-yielding cows.

AU AUTHOR(S): Grigor'ev,-NG; Fitsev,-AI; Lesnitskaya,-TI

SO SOURCE (BIBLIOGRAPHIC CITATION): Sel'skokhozyaistvennaya-Biologiya. 1986, No. 7, 47-50; 12 ref.

PY PUBLICATION YEAR: 1986

LA LANGUAGE OF TEXT: Russian

LS LANGUAGE OF SUMMARIES: English

AB ABSTRACT: Hydroponic feed (HF) prepared from barley had DM 12.62, ash 3.44, crude protein 16.4, fats 4.45, cellulose 12.51 and nitrogen-free extract 63.22%. In trials with 4 Romanov sheep digestibility of DM was 73.50, organic matter 75.54, protein 69.94, fat 73.80, cellulose 56.82 and N-free extract 80.94%. Nutritive value was 0.14 feed unit/kg. For 101 days 2 groups of 8 cows at the same stage of lactation were given mixed feeds based on maize silage with HF 3.6 or 18.0 kg (replacing 50% of the silage). With 18.0 kg HF yield of milk with 4% fat increased by 8.7% compared with initial values. Milk fat decreased by 0.42% compared with 0.15% in controls. In trials with 3 cows

moderate amounts of HF affected synthetic processes and decreased volatile fatty acids in the rumen. With 59 kg HF completely replacing maize silage, non-protein N and ammonia increased in the rumen and in urine. Blood values in cows were normal except that acid capacity, sugars and carotene tended to increase with the greatest amount of HF. Total proteins tended to decrease and whey proteins to increase in milk. Up to 18 kg HF is recommended for high-yielding cows.

DE DESCRIPTORS: Cows-; Feeding-; Hydroponic-feed; ODCows-; Feeds-; Milk-yield; Milk-composition; Hordeum-

PT PUBLICATION TYPE: Numbered-Part

CAB CAB ABSTRACTS PUBLICATION DATA: ON Nutrition-Abstracts-and-Reviews.-

Series-B 1987 057-05099; OD Dairy-Science-Abstracts 1987 049-07159; 6T

Wheat,-Barley-and-Triticale-Abstracts 1988 005-00642

AN ACCESSION NUMBER: N988632

2 of 2

TI TITLE: Hydroponic shed produces enough feed for 55 cows. Marked in Search: #9

SO SOURCE (BIBLIOGRAPHIC CITATION): New-Zealand-Journal-of-Agriculture. 1986, 151: 11, 18-19.

PY PUBLICATION YEAR: 1986

LA LANGUAGE OF TEXT: English

AB ABSTRACT: Commercial hydroponic barley production for out of season cattle feed is described. Cv. Schooner and Clipper are preferred due to their high germination rates over cv. Galleon. Seeds are soaked and transferred to foam trays. Seedlings are illuminated for 16 h/day at 25xC and 75% RH. A hydroponic nutrient mix including 800 g calcium nitrate and 100 g chelated Fe is given 4 days out of 7. After 7 days growth the barley plants are fed to cattle. Economic aspects are considered.

DE DESCRIPTORS: Hordeum-vulgare; Hydroponics-; Techniques-; Barley-; Germination-; Hordeum-

GE GEOGRAPHIC HEADINGS: Australia-

PT PUBLICATION TYPE: Numbered-Part

CAB CAB ABSTRACTS PUBLICATION DATA: OG Herbage-Abstracts 1987 057-01072; 7G Seed-Abstracts 1987 010-01697; 6T Wheat,-Barley-and-Triticale-Abstracts 1987 004-04433

AN ACCESSION NUMBER: G991657