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Water Quality Information Center of the National Agricultural Library
Agricultural Research Service, U.S. Department of Agriculture

Constructed Wetlands Bibliography, Part III: Agricultural Waste

This file, "Constructed Wetlands, Part III: Agricultural Waste" is one section of a seven-part constructed wetlands bibliography on using constructed wetlands for wastewater treatment. The bibliography was compiled by United States Department of Agriculture staff from the Ecological Sciences Division of the Natural Resources Conservation Service, formerly the Soil Conservation Service, and the Water Quality Information Center at the National Agricultural Library. The complete bibliography can be accessed as either a single large (450K) file containing more than 600 citations or in parts organized by topic.

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http://www.nal.usda.gov/Constructed_Wetlands_all/index.html

AW
CATEGORY AW
SUBCATEGOR

TITLE Agricultural waste treatment with constructed wetlands.
AUTHOR Hammer, D.A. and J.T. Watson.
SOURCE Proceedings of the National Symposium on Protection of
 Wetlands from Agricultural Impacts. U.S. Fish & Wildlife
 Service Biol. Report 88:16 (1988)

PUBLISHER
PAGES
DATE 1988
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Constructed wetland systems for agricultural waste water treatment.
AUTHOR Soil Conservation Service
SOURCE (WP6)(National Bulletin No. 210-1-17)
PUBLISHER
PAGES
DATE 1992
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Constructed wetlands for agricultural wastewater treatment: technical requirements.
AUTHOR Soil Conservation Service
SOURCE
PUBLISHER
PAGES
DATE 1991
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Constructed wetlands for treatment of agricultural waste and urban stormwater.
AUTHOR Majumdar, S.K., et al.
SOURCE Wetlands ecology and conservation: emphasis in Pennsylvania.
PUBLISHER Tenn. Valley Authority.
PAGES pp. 333-348
DATE 1989
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Constructed wetlands for treatment of agricultural waste and urban stormwater.
AUTHOR Hammer, D.A.
SOURCE Wetlands Ecology and Conservation: Empahsis in Pennsylvania.
PUBLISHER Philadelphia, PA: Penn. Academy of Science

PAGES pp 333-248
DATE 1989
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Effects of pumped agricultural drainage water on wetland
water quality.
AUTHOR Gilliam, J.W., et al.
SOURCE paper presented at the National Symposium on Wetland
Hydrology. Chicago, IL
PUBLISHER
PAGES
DATE 1987
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Establishment of a constructed wetland to treat wastewater
from a confined animal operation.
AUTHOR Strong, L., R.L. Ulmer, T.P. Cathcart and J.W. Pote.
SOURCE Proceedings, 21st Annual Mississippi Water Resource
Conference, 1991
PUBLISHER
PAGES pp. 112-117
DATE 1991
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Treatment of waste from a combined hog feeding unit by using
artificial marshes.
AUTHOR Werblan, D., et al.
SOURCE n. d. Journal Paper No. J-9160 of the Iowa Agricultural and
Home Economics Experiment Station, Ames, IA.
PUBLISHER
PAGES
DATE
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR

TITLE Use of constructed wetlands to clean up animal waste.
AUTHOR Eddleman, R.L., Jr.
SOURCE 7th Annual Meeting of the Soil and Water Conservation Society, Baltimore, MD, 9-12 August 1992.
PUBLISHER (515) 289-2331 voice (515) 289-1227 fax
PAGES
DATE 1992
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR case studies--Ireland

TITLE Wetlands treatment of dairy animal waste in Irish drumlin landscape.
AUTHOR Costello, C.J.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.
PUBLISHER Chelsea, MI: Lewis Publishers, Inc.
PAGES pp 702-709
DATE 1989
CALLNUM TD756. 5 C66
ANNOTATION Lough Gara Farms Limited (an intensive dairy farm) existing treatment system uses a natural wetland that drains into a lake. In response to Sligo County Council issuance of a Local Water Pollution Notice, Gara Farms decided to commission an independent environmental study. This paper presents the results of the wetland treatment system portion of the study.

CATEGORY AW
SUBCATEGOR case studies--SE USA (MS)

TITLE Evaluation of ARS and SCS constructed wetland/animal waste treatment project at Hernando, Mississippi. Interim report 1990-1991.
AUTHOR Cooper, C.M., et al.
SOURCE USDA-ARS Technology Application Project Report No. 17
PUBLISHER
PAGES 28p.
DATE 1992, March
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR case studies--SE USA (MS)

TITLE Project description--use of constructed wetlands to treat
wastewater from confined animal operations in Mississippi.
AUTHOR Soil Conservation Service
SOURCE USDA-SCS
PUBLISHER
PAGES
DATE 1989, May
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR dairy

TITLE Vegetative filter treatment of dairy milkhouse wastewater.
AUTHOR Schwer, C.B. and J.C. Clausen.
SOURCE Journal of Environmental Quality, 18:446-451.
PUBLISHER
PAGES pp. 446-451
DATE 1989
CALLNUM QH540 J6
ANNOTATION

CATEGORY AW
SUBCATEGOR engineering considerations--design--monitoring--dairy

TITLE Wetland for treating liquid dairy waste: design and
monitoring.
AUTHOR Lanier, A.L., D. Fox and D.W. Smith.
SOURCE Paper-American Society of Agricultural Engineers: No.
91-4020, 11p, 1991
PUBLISHER
PAGES 11p
DATE 1991
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR livestock

TITLE Constructed Wetlands for Animal Waste Management, 1994--
Conference Proceedings.
AUTHOR DuBow, P.J. and R.P Reaves (eds).
SOURCE Papers from the Constructed Wetlands for Animal Waste
Management Waste Workshop. Lafayette, IN. Apr. 4-6, 1994.
PUBLISHER Lafayette, IN: Purdue University

PAGES 188 p.
DATE 1994
CALLNUM TD 930.C644 ISBN:0-931682-46-0
ANNOTATION Proceedings are the result of the first national workshop
on the use of constructed wetlands for animal waste.
Contains 18 papers with abstracts.

CATEGORY AW
SUBCATEGOR livestock

TITLE Constructed wetlands for livestock waste treatment.
AUTHOR Hammer, D.A., B.P. Pullin and J.T. Watson.
SOURCE
PUBLISHER Tennessee Valley Authority, Knoxville, TN.
PAGES
DATE 1989
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR livestock

TITLE Draft interim standard constructed wetlands for livestock
waste treatment.
AUTHOR Wengrynek, R.
SOURCE
PUBLISHER Soil Conservation Service, Orono Maine
PAGES
DATE
CALLNUM
ANNOTATION

CATEGORY AW
SUBCATEGOR livestock--economic aspects

TITLE Environmental and economic aspects of recycling livestock
wastes.
AUTHOR Martin, J.B. and C.E. Madewell.
SOURCE Southern Journal of Agricultural Economics. 3:137-42
(1971).
PUBLISHER
PAGES
DATE 1971
CALLNUM HD101 S6
ANNOTATION

CATEGORY AW
SUBCATEGOR reed beds

TITLE Treatment of agricultural effluents by reed bed systems.
Report on the operation of the Rugeley reed bed. November
1986 to July 1988. Report for the MAFF and WRC.

AUTHOR Gray, K.R., A.J. Biddlestone and K. Thurairajan.

SOURCE

PUBLISHER

PAGES

DATE 1988

CALLNUM

ANNOTATION

CATEGORY AW
SUBCATEGOR swine--aquaculture

TITLE Waste treatment for confined swine with an integrated
artificial wetland and aquaculture system.

AUTHOR Maddox, J.J. and J.B. Kingsley.

SOURCE Constructed Wetlands for Wastewater Treatment: Municipal,
Industrial and Agricultural.

PUBLISHER Chelsea, MI: Lewis Publishing, Inc.

PAGES pp. 191-200

DATE 1989

CALLNUM TD756. 5 C66

ANNOTATION

NOTE: THE FOLLOWING CITATIONS ARE AN UPDATE, AS OF OCTOBER 24,1995,TO THE ORIGINAL DOCUMENT AND THEREFORE ARE IN A DIFFERENT FORMAT.

1 NAL Call No.: S591.55.K4S64
A new concept in treating wastewater--constructed wetlands.
Karathanasis, A. D.
Soil science news and views-Cooperative Extension Service and University
of Kentucky, College of Agriculture, Department of Agronomy, Lexington,
Ky. : The Department. 1991. v. 12 (3) 3 p.

Descriptors: waste water treatment; wetlands; biological treatment;
construction; costs; mine spoil; agricultural wastes; kentucky

2 NAL Call No.: 44.8-J822
Components of dairy manure management systems.
Van Horn, H. H.; Wilkie, A. C.; Powers, W. J.; Nordstedt, R. A.
Journal of dairy science v.77, p.2008-2030. (1994).
Includes references.

Descriptors: cattle manure; dairy farms; application to land; dairy cows;
excretion; waste treatment; waste disposal; waste utilization; energy

balance; water use; ammonia; methane; nitrogen; phosphorus

Abstract: Dairy manure management systems should account for the fate of excreted nutrients that may be of environmental concern. Currently, regulatory oversight is directed primarily at the assurance of water quality; N is the most monitored element. Land application of manure at acceptable fertilizer levels to crops produced on the farm by hauling or by pumping flushed manure effluent through irrigation systems is the basis of most systems. Nutrient losses to surface and groundwaters can be avoided, and significant economic value can be obtained from manure as fertilizer if adequate crop production is possible. Dairies with insufficient crop production potential need affordable systems to concentrate manure nutrients, thereby reducing hauling costs and possibly producing a salable product. Precipitation of additional nutrients from flushed manures with sedimented solids may be possible. Composting of separated manure solids offers a possible method to stabilize solids for distribution, but, most often, solids separated from dairy manures are fibrous and low in fertility. Manure solids combined with wastes from other sources may have potential if a marketable product can be produced or if sufficient subsidy is received for processing supplementary wastes. Solutions to odor problems are needed. Energy generated from manure organic matter, via anaerobic digestion, reduces atmospheric emissions of methane and odorous compounds. Use of constructed wetlands or harvesting of photosynthetic biomass from wastewater has the potential to improve water quality, making extensive recycling possible.

3 NAL Call No.: S37.F72

Constructed wetlands: an approach for animal waste treatment.

Rieck, A.; Langston, J.; VanDevender, K.

FAS-Cooperative Extension Service, University of Arkansas. Little Rock, Ark. : The Service. Apr 1993. (3005) 4 p.

Includes references.

Descriptors: animal wastes; waste treatment; wetlands; regulations; state government; arkansas

4 NAL Call No.: 1.98-Ag84

Constructed wetlands clean up: they could be an inexpensive, low-tech cure for farm pollution headaches.

Becker, H.

Agricultural research- U.S. Department of Agriculture, Agricultural Research Sep.20. (1993).

Descriptors: dairy farming; waste water; water management; wetlands

5 NAL Call No.: TD930.C644--1994

Constructed wetlands for animal waste management : proceedings of workshop, 4-6 April 1994, Lafayette, Indiana.

Dubowy, P. J. P. J. 1.; Reaves, R. P. R. P. 1.

West Lafayette, In. : Department of Forestry and Natural Resources, Purdue University, c1994. vi, 188 p. : ill..

Includes bibliographical references.

Descriptors: Animal waste Management-Congresses; Constructed wetlands-Congresses

6 NAL Call No.: 290.9-Am32P

Constructed wetlands for dairy wastewater treatment.
Davis, S. H.; Ulmer, R.; Strong, L.; Cathcart, T.; Pote, J.; Brock, W.
Paper American Society of Agricultural Engineers. St. Joseph, Mich. :
American Society of Agricultural Engineers,. Winter 1992. (92-4525) 11 p.
Paper presented at the "1992 International Winter Meeting sponsored by the
American Society of Agricultural Engineers," December 15-18, 1992,
Nashville, Tennessee.

Descriptors: dairy effluent; waste water treatment; wetlands;
construction; nitrification; biochemical oxygen demand; dissolved oxygen;
mississippi

7 NAL Call No.: aS622.S6
Constructed wetlands handle waste.
Taylor, S.
Soil & water conservation news-U.S Department of Agriculture, Soil
Conservation Service v.11, p.5-6. (1991).

Descriptors: wetlands; animal wastes; planting; georgia

8 NAL Call No.: 100-AL1H
Constructed wetlands successfully treat swine wastewater.
McCaskey, T. A.; Eason, J. T.; Hammer, D. A.; Pullin, B. P.; Payne, V. W.
E.; Bransby, D. I.
Highlights of agricultural research-Alabama Agricultural Experiment
Station v.39, p.13. (1992).

Descriptors: pigs; waste water; waste water treatment; wetlands; aquatic
plants; ammonia; nitrogen content; alabama

9 NAL Call No.: S589.7.E57-1994
Preliminary effectiveness of constructed wetlands for dairy waste
treatment.
Cooper, C. M.; Testa, S. I.; Knight, S. S.
Environmentally sound agriculture proceedings of the second conference
20-22 April 1994 / p.439-446. (1994).
Includes references.

Descriptors: dairy wastes; waste water; waste water treatment; wetlands;
scirpus validus; on farm processing; water quality; improvement;
mississippi

10 NAL Call No.: 290.9-Am32P
SCS technical requirements for constructed wetlands for agricultural
wastewater treatment.
Krider, J. N.; Boyd, W. H.
Paper American Society of Agricultural Engineers. St. Joseph, Mich. :
American Society of Agricultural Engineers,. Winter 1992. (92-4523) 5 p.
Paper presented at the "1992 International Winter Meeting sponsored by the
American Society of Agricultural Engineers," December 15-18, 1992,
Nashville, Tennessee.

Descriptors: agricultural wastes; waste water treatment; wetlands;
regulations

11 NAL Call No.: S589.7.E57-1994
Swine wastewater treatment in constructed wetlands.

Hunt, P. G.; Humenik, F. J.; Szogi, A. A.; Rice, J. M.; Stone, K. C.; Sadler, E. J.
Environmentally sound agriculture proceedings of the second conference
20-22 April 1994 / p.268-275. (1994).
Includes references.

Descriptors: pigs; animal wastes; waste water treatment; wetlands; juncus effusus; scirpus; species; sparganium; typha angustifolia; typha-latifolia; glycine max; oryza sativa; growth; crop yield; wetland soils; redox reactions; nitrogen; phosphorus; removal

12 NAL Call No.: 290.9-Am32P
Treating dairy waste utilizing laboratory-scale constructed wetlands.
Benham, B. L.; Mote, C. R.
Paper American Society of Agricultural Engineers. St. Joseph, Mich. : American Society of Agricultural Engineers, . Winter 1993. (932576) 11 p.
Paper presented at the "1993 International Winter Meeting of the American Society of Agricultural Engineers," December 14-17, 1993, Chicago, Illinois.

Descriptors: dairy wastes; wetlands; waste treatment

13 NAL Call No.: TD420.A1P7
Treatment of dairy farm wastewaters in horizontal and up-flow gravel-bed constructed wetlands.
Tanner, C. C.
Water science and technology: a journal of the International Association on Water Pollution Research and Control v.29, p.85-93. (1994).
In the series analytic: Wetlands systems in water pollution control / edited by H.J. Bavor and D.S. Mitchell. Australia.

Descriptors: waste water treatment; biological treatment; dairy wastes; dairy effluent; wetlands; gravel; schoenoplectus; nutrient uptake; nitrogen; phosphorus; removal; new zealand; schoenoplectus validus; artificial wetlands

14 NAL Call No.: S1.N32
Wetlands that work for you.
Bowman, G.; Wetlands that work for you.
The New farm v.14, p.50-53. (1992).

Descriptors: dairy wastes; biological treatment; waste water treatment; wetlands; on farm processing; constructed wetlands

15 NAL Call No.: S544.3.N6N62
Constructed wetlands for animal wastewater treatment.
Humenik, F.; Zublena, J.; Barker, J.
AG-North Carolina Agricultural Extension Service. Raleigh : North Carolina Agricultural Extension Service, . Oct 1993. (473-13) 3 p.
In subseries: Water Quality & Waste Management.

Descriptors: wetlands; construction; design; waste water treatment; water quality; simulation; north carolina

16 NAL Call No.: 290.9-Am32P
Constructed wetlands for milkhouse wastewater treatment.
Zimmerman, T.; Lefever, J. L.; Warns, M.

Paper American Society of Agricultural Engineers. St. Joseph, Mich. : American Society of Agricultural Engineers,. Summer 1994. (94-1075/94-2020) 12 p.

Paper presented at the "1994 International Summer Meeting sponsored by The American Society of Agricultural Engineers," June 19-22, 1994, Kansas City, Missouri.

Descriptors: waste water treatment; wetlands

17 NAL Call No.: 290.9-Am32P

Small constructed wetlands for animal waste treatment.

Evans, J. L.; Webber, D.

Paper American Society of Agricultural Engineers. St. Joseph, Mich. : American Society of Agricultural Engineers,. Summer 1994. (94-1075/94-2020) 21 p.

Paper presented at the "1994 International Summer Meeting sponsored by The American Society of Agricultural Engineers," June 19-22, 1994, Kansas City, Missouri.

Descriptors: waste treatment; wetlands

18 NAL Call No.: QH541.5.M3C66--1993

Constructed wetlands for treating agricultural wastewater.

United States. Environmental Protection Agency. West Lafayette, IN : The Center, [1993?] 1 sheet.

Caption title. Agency and CTIC."

Descriptors: Wetland ecology; Agricultural pollution

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February 1995

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February 1995

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| Dr. Smith  Faculty  Ag School
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| Canadian Journal of Soil Science 1988 v 68(1): 17-27
| DeJong, R.  Comparison of two soil-water models under semi-arid growing
| conditions
|
| Ver:  AGRICOLA      Remarks:  Not available at AU or in region.
| NAL CA:  56.8 C162  Auth:  C. Johnson      CCL      Maxcost:  $15.00
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