

6. REFERENCES

Abdou, F.M.; S.Y. Metwally, H. Hamdi and M. El-Fouli (1969).

The effect of manuring on soil properties and yield of corn.

J. Soil Sci. U.A.R. 9 (2): 121-131.

Abo-Arab, A.A.A. (1980).

Effect of soil conditioners on soil properties.

M.Sc. Thesis, Fac. Agric., Cairo Univ., A.R.E.

Alaa-El-Din, M.N.; Y.Z. Ishac, M.N. El-Borollosy, S.A. El-Shimi and B.E. Ali (1982).

Biogas from agricultural residues in Egypt.

The first OAU/STRC Inter.African Conference on Bio-fertilizers, Cairo, Egypt, 22-26 March, 1982.

Alaa-El-Din, M.N.; E.A. Saleh, Y.Z. Ishac, S.A. El-Shimi and M. El-Housseni (1984).

Biogas from sanitary landfill technique in Egypt.

Paper presented at "International workshop on Bio-energy recovery and conservation". held on October 31 Nov. 2, 1984 at Boston, Massachusetts, U.S.A.

Alaa-El-Din, M.N.; N.A. Gomaa, S.A. El-Shimi and B.E. Aly (1984a).

Biogas production from kitchen refuses of army camp of Egypt using a two stage biogas digester.

Paper presented at "International Conference of State of the Art on Biogas Technology", transfer and diffusion". Cairo, November 17th, 24, 1984.

Alaa-El-Din, M.N.; S.A. El-Shimi, M.H., Mahmoud and
S.M. Arroug (1984b).

Effect of storage and moisture content on biogas
manure.

Second Conf. ARC, Giza, 9-11 April (1984), Egypt.

Alexander, M. (1977).

Introduction to soil microbiology. (Second
Edition).

John Wiley and Sons, Inc. New York and London.

Allen, O.N. (1953).

Experiments in soil bacteriology. 1st Ed.

Burges Publ. Co. U.S.A.

----- (1959).

Experiments in soil bacteriology.

Burges Publ. Co. U.S.A. pp 117 . 3rd Ed.

Aly, B.E. (1985).

Bioenergy from organic residues for rural Egypt.

Ph.D. Thesis, Fac. of Agriculture, Ain-Shams Univ.

Ambrozova, M. (1970).

Effect of soil physical condition on the activity
of some microbial respiratory enzymes.

Rostle, vyroba Czechoslovakia 16: 451-455.

Soils and Fert. 33 (6) Abst. 4617.

American Public Health Association (1976).

Standard methods for the examination of water and
waste water.

Washington, D.C., 14th Ed.

Anonymous (1979).

Biogas technology and utilization Chengdu seminar,
Sichuan provinical Office of Biogas Development.
Institute of soil and Fertilizer. Academy of Agric.
Res. Sichuan. China.

Antoun, G. (1972).

Humification of organic matter in soils and its
relationship with some microbiological activities.
M.Sc. Thesis, Fac. Agric., Cairo Univ., A.R.E.

Asmue, F. (1970).

Effect of different organic manures on the nitrogen
dynamics in soil.
Albrecht Thaer-Arch. 14: 541-552.
Soils and Fert., 34 (1) Abst. 660: 89,(1971).

Badran, M. Nadia (1983).

Organic manuring and its effect on some chemical
and microbiological properties of some Egyptian soils.
M.Sc. Thesis, Fac. Agric., at Moshtohor, Zagazig Univ.

Balev, P.M. and R.S. Karastoyanova (1957).

The role of plants and fertilizers in increasing
soil fertility.
Soils and Fert. 21 (2): 104.

- Balicka, N. and Z. Sochacka (1959).
 Biological activity in light soils.
 Zesz. Prob. Postep. Nauk. 21: 257.
 Biblio on (enzymes in soils) Comm. Bur. Soils, U.K.
- Barnett, A.; L. Pyle, and S.K. Subramanian (1978).
 Biogas Technology in the third World mutidiscip-
 linary Review, Ottawa, Ont. IDRC. International
 Development Research Center, 103e.
- Black, C.A.; D.O. Evans; L.E. Ensminger; J.L. White; F.E.
 Clark and R.C. Dinauer (1965).
 Methods of soil analysis, II. Chemical and Micro-
 biological properties.
 Amer. Soc. Agron. Inc. Madison, Wisconsin, U.S.A.
- Boguslawski, E. Von; F. Zadrazil and J. Debruck. (1977).
 The influence of long term straw application and
 green manuring compared to N fertilization on
 factors of soil fertility. 1. Soil dehydrogenase
 activity.
 Rawisch, Holzhausen, German Federal Republic. 143
 (4), 249-258.
 Soils and Fert. Vol. (4), No. 5, Abst. 2385.
- Borie, F. and R. Fuentealba (1982).
 Biochemistry of volcanic ash soils. 2. Urease ac-
 tivity.
 Agricultura Tecnica (1982) 42 (2): 135-142.
- Breed, R.S. and J.F. Norton (1937).
 Cited by Mossel, D.A.A. (1967).
 "Ecological principles and methodology aspects of
 the examination of foods and feed for indictor,
 microorganisms".
 J.A.O.A.C. 50: 91.

- Bremer, J.M. and K. Shaw (1957).
Mineralization of some nitrogenous materials in soil.
J. Sci. Food and Agric., 8: 341.
- Bright, J.M.W. and H.J. Conn (1919).
Ammonification of manure in soil.
N.Y. Agr. Exp. Sta. Tech. Bull. 67.
(Cited by Badran, 1983).
- Broadbent, F.E.; G.N. Hill and K.B. Tyler (1958).
Transformation and movement of urea in soils.
Soil Sci. Soc. Amer. Proc. 22: 303-307.
- Brookes, P.C. and S.P. McGrath (1984).
Effects of metal toxicity on the size of the soil
microbial biomass.
Journal of Soil Science, 35 (2):341-346.
- Brookes, P.C., S.P. McGrath, D.A. Klein, and E.T. Elliott
(1984).
Effects of heavy metals on microbial activity and
biomass in field soils treated with sewage sludge.
Soils and Fert. Vol. 48, No. 4, Abst. 3400 .
- Buren, A. Van (1979).
A Chinese biogas manure , popularising technology in
country side.
Intermediate Technology Publications Ltd. London,
WC 2E 8HN.
- Burns, R.G., M.H. El-Sayed, and A. MCMcIren (1972).
Extraction of a urease active organo-complex from soil.
Soil Biology and Biochemistry , 4 (1):107-108.

Casida, L.E. (1959).

Phosphatase activity of some common soil fungi.
J. Soil. Sci., 87: 305-310.

Casida, L.E.; D.A. Klein and T. Santoro (1964).

Soil dehydrogenase activity, Soil Sci. 89: 371.

Cerna, S. (1970).

Phosphatase activity in structural soil.
Universitatis Carolinae, Biologica 6, 455-459.
Soils and Fert. Vol. 36 (2) 623.

Chengdu, S. (1979).

Biogas technology and utilization.
Sichuan provincial office of biogas Development,
China.

Chen Ru - Chen and Xio Zhi-Ping (1981).

Digesters for developing countries-water pressure
digester.
Guangzhou Institute of Energy Conversion.
Chinese Academy of Science

Chhonkar, P.K. and J.C. Tarafdar (1984).

Accumulation of phosphatases in soils.
Journal of the Indian Society of soil Science (1984)
32 (2):266-272.

Cochran, W.G. (1950).

Estimation of bacterial densities by means of the
most probable number.
Biometrics, 6: 102-116.

Conrad, J.P. (1940).

The nature of the catalyst causing the hydrolysis
of urea in soils.
Soil Sci. 50: 119.

Daif, M.A. and M.L. Van, Beusichem (1981).

Effect of some trace elements on urea hydrolysis
in soils. Soils and fertilizers Vol. 48 No. 7, Abst. 7130 .

Dalal, R.C. (1975).

Urease activity in some Trinidad soils.
Soil. Biology and Biochemistry 7, 5-8.

Daraselya, N.A. (1960).

Dynamics of microbiological processes in krasnozern
soils of tea plantation of Georgia.
Soils and Fert., 23: Abst. 2569

Dart, P.J.; J.M. Day and D. Harris (1972).

Assay of nitrogenase activity by acetylene reduction.
In: Use of isotopes for study of fertilizer utilization
by legume crops.
Intern. Atomic Energy Agency Technical Report No.
149: 85-100.

David, C. Stuckey (1983).

Technology assessment study of biogas in developing
countries.
International Reference Centre for waste disposal
(IRCWD), Ueberland Strasse 133, CH-8600 Duebendorf,
Switzerland.

Delwiche, C.C. (1970).

The nitrogen cycle.
Sci. Am. 223: 137-146.

Diez, T. and H. Weigelt (1980).

Fertilizing effect of refuse compost and sewage
sludge.
(Soils and Fert., 44 (1), Abst. 1981).

Difco manual and Dehydrated culture media and reagents

8th Edition (1977).

Difco Laboratories, Detroit, Michigan.

Drobnikova, V. (1961).

Factors influencing the determination of phosphatase in soil.

Folia Microbiol. 6: 260.

El-Essawi, T.M.; F.M. Kishk, and A.S. Abdel-Ghaffar (1973).

Preliminary studies on some soil enzymes.

Alex. J. Agri. Res. 21 (1): 125.

El-Housseini, M.M. (1983).

Fermentation of city refuses under anaerobic conditions.

Ph.D. Thesis, Ain Shams Univ., Egypt. 222p.

El-Husseiny, T.M.; N.A. Neweigy, Ehasan A. Hanafy, and Nadia I.M. Abdel-Hady (1984).

The effect of chemical and bacteriological transformation of organic materials on the availability of some nutrient elements in sandy and calcareous soils.

Annals of Agric. Sci. Moshtohor, Vol. 22, p. 201-221.

El-Leithy, N.A.H. (1958).

Production of antibiotics by actinomycetes isolated from Egyptian soils.

Ph.D. Thesis, Cairo Univ.

El-Shahawy, R.M.A. (1972).

Studies on the microbiology of Wadi-El-Natroun soils.

M.Sc. Thesis, Fac. Agric. Cairo Univ., A.R.E.

El-Shimi, S.A. (1976).

Enzymatic activities in salt affected soils.

M.Sc. Thesis, Fac. Agric. Shibin El-Kom, Tanta Univ.

El-Shinnawi, M.M., S.M. Shehata and S.A. El-Shimi (1982).
Enzymatic activities during incubation of remoistened soil samples stored for different periods.
Zbl. Bakt. II. Abt. 137 (1982) 80-90.

Fedorova, L.V. (1968).
Enzymatic activity of Sakhalin soils.
Akad. Nauk. SSR, Sib. Otd., 1968, No. 19, 138-144.
(C.F. Agrokhim. 1969, No. 3, Abst. 180).

Filip, Z. and H.P. Muller (1984).
Effect of fermentation residues on soil microorganisms and some soil properties-a pot experiment.
Institute fur Wasser-Boden-und Lufthygiene des Bundesgesundheitsamtes, 26 (3); 220-228 .

Frank, N. and C.E. Skinner (1941).
Coli-aerogenes bacteria in soil.
J. Bact. 42: 143.

Franz, G. (1973).
Comparative investigation on the enzyme activity of some soils in Nordrhein-westfalen and Rheinlanpflaz.
Pedobiologia 13 (6): 423.
Soils and Fert. Vol. 37 (8).

Fraser, M.H.; W.E. Heid and J.E. Malcolm. (1956).
The occurrence of coli-aerogenes organisms on plants.
J. Appl. Bact., 19: 301.

Galstyan, A. SH. (1957).
Influence of fertilizers on catalase activity in soil.
Dokl. Akad. Nauk. Arm. SSR, 25.
(Cited by Koslov, 1962).

Galstyan, A.SH. (1958).

Fermentative activity of some Armenian soils. IV.

Urease activity in soil.

Dokl. Akad. Nauk. Armyan 26: 29.

Biblio.on (enzymes in soil) Comm. Bur. soils. U.K.

----- and B.N. Astvatsatryan, (1958).

Biological activity of the stony semi-arid soils of the fouthill zone of Armenia.

Dokl. Akad. Nauk. Armyan 11: 89.

Biblio on (enzymes in soils) Comm. Bur. Soils, U.K.

----- (1959).

Enzyme activity and the intensity of respiration of soil.

Dokl. Akad. Nauk. 127: 1099-1102.

Soils and Fertilizers 22: Abst. 2795.

Geldereich, E.E. (1970).

Applying bacteriological parameters to recreational water quality.

J. AWWA., 62: 113.

----- and W.A. Clark, (1966).

Bacterial pollution indicators in the intestinal tract of fresh water fish.

Appl. Microbiol. 14: 429.

-----, R.H. Bordner, C.B. Huff, H.F. Clark and P.W. Kabler (1962).

Type distribution of coliform bacteria in the feaces of warm-blooded animals.

J. WPCF 34: 295.

Glinski, J.; Z. Stepniewska, A. Kasiak (1983).

Changes in the enzyme activity in soils with respect to soil water content and oxygen status.

Soils and Fert. Vol. 47 No. 6. Abs. 5848.

Glothe, H. and A. Thalmann (1970).

Microbial activity and its relation to fertility characteristic of some arable soils with special consideration of dehydrogenase activity (TTC reduction):

1. Method for determination TTC reduction.

Zatlk. Bakt. Parasitin de Abt. II, 124: 1-23,
Chem. Abst. 73, 21.

Gohar, M.R. (1963).

The effect of ploughing under crop residues in the rotation cotton, barley, maize on soil fertility.

M.Sc. Thesis, Fac. Agric. Cairo Univ., A.R.E.

Guerrero, M.C. and J.M. Lozano-Calle (1978).

Development of the soil microflora and organic carbon in calcareous mull rendzina subjected to various rates of cellulose and nitrogen.

Soils and Fert., 43 (2): 114, 1980.

Guerrero, M.C., J.M. Lozano-Calle, C. Ramirez, (1980).

Microbiological activity in three characteristic humus types from a center of Spain.

Soils and Fert. Vol. 47. No. 7, Abs. 7145 1984.

Hamdi, H., S.Y. Metwally, F.M. Abdou and M. El-Fouly (1969).

The effect of different sources of organic manure on nitrogen mineralization and organic matter content in sandy soils.

J. Soil Sci. U.A.R. 9 (1): 35-49.

Harding, S.A.; C.E. Clapp, and W.E. Larson (1985).

Nitrogen availability and uptake from field soils five years after addition of sewage sludge.

Soils and Fert. (Vol. 48, No. 7, Abst. 7230).

Harmson, G.W. and G.L. Kolenbrandan (1965).

Soil inorganic nitrogen p. 43-92.

In: Soil nitrogen, Bartholomew, W.V. and Clark, F.E. (eds.) No. 10. Madison, Wisconsin: American Society of Agronomy.

Hashem, Farh, A. (1980).

Studies on the activities of microorganisms in desert soils and their relation to soil fertility.

M.Sc. Thesis, Fac. Agric., Zagazig Univ., A.R.E.

Hauge, J.G.; T.E. King and V.H. Cheidelin (1955).

Oxidation of dehydroxyacetone via the pentose cycle in acetobacter suboxydans.

J. Biol. Chem. 214: 11.

Hickisch, B., I. Forster and B. Hagelstein (1984).

Contribution to the mobilization of phosphorus by soil microorganisms 2nd Report: Effect of heat sterilization, microbial, colonization, and growth of young wheat plants on the phosphorus content of soil and plants.

Soils and Fert. Vol. 48, No. 4, Abst. 3181.

Hethener, P. (1967).

Activité microbiologique des soles à Cupressus dwpreziana A camus au Tassili N, Ajjer (Sahara central) Bull. Soc. Hist Nat. Afr. Nord (Algeria) 58: 39-100 (cited from West and Skujins, 1978).

Hills, D.J. (1979).

Effect of carbon: nitrogen ratio on anaerobic digestion of dairy manure.

Agricultural Wastes 1 (4): 267-278.

Hobson, P.N. and B.C. Shaw (1973).

The anaerobic digestion of waste from an intensive pig unit.

Water Res. 7: 437-449.

Hobson, P.N ; S. Bousfield and R. Summers (1974).

Anaerobic digestion of organic matter, CRC critical reviews in environmental control, June, 131-191.

Hofmann, E. and G. Hoffmann (1955).

The origin determination and significance of enzymes in soil.

Z. Pfl. Ernahr-Dung Boden 70: 9.

----- and A. Kesseba (1962).

Study of enzymes in Egyptian soils.

Z. Pfl. Ernahr. Dung. Bodenk 99: 9-21.

Hoffmann, G. and K. Elias-Azar (1965).

Verschiedene Faktoren der Boden Fruchtbarkeit
noririscher Boden unde ihre Beziehungen Zur
Aktiviitat hydroby tisher enzyme.

Z. Pfl. Ernahr. Dung. Bodenk 108: 199.

Cited by Ramirez- Martinez(1968).

Hornick, S.B.; J.J. Murray, G.B. Willson and C.F.

Tester (1979).

Use of sewage sludge compost for soil improvement
and plant growth.

U.S. Dept. of Agric. Sc. and Eduction Administra-
tion Agric. Reviews and Manuals, ARM-NE.6.

Hudcova, O. and J. Apltauier (1965).

Effect of the composition of organic matter of green
manure crops on formation of CO_2 and liberation of
 NH_3 and $\text{NO}_3\text{-N}$.

Ust. Ved. Inf. Mzlvh Rostl. Vyroba 38: 151-160.

Soils and Fert. 29.(1): Abst. 81.

Ibrahim, A.N. (1964).

Microorganisms and their activities in relation to soil fertility.

Ph.D. Thesis, Fac. Agric. Ain-Shams Univ., A.R.E.

ICAR (Indian Council of Agricultural Research) (1976).

The economics of cow dung Gas Plants, New Delhi, India.

Idnani, M.A. and S. Varadarajan (1974).

Fuel and Manure by anaerobic fermentation of organic materials.

ICAR, Technical Bulletin No. 46.

Ishac, Y.Z. (1982).

Azotobacter: their contribution to soil nitrogen the first OAU/STRC Inter-African Conference on Bio-Fertilizers, Cairo (Egypt).

Ishac, Y.Z.; N.S. Kaddouri and A.N. Youssef (1970).

Density of Azotobacter in some southern parts of Iraq. 2nd Arab Congr. Appl. Microbial. A.R.E.

Jackson, M.L. (1973).

Soil chemical analysis.

Prentice-Hall of India Private, New Delhi.

Janossy, G. (1963).

Changes in phosphatase activity of soil microorganisms depending on status of phosphorus nutrition.

Agrokem Talajt. 12: 285-292.

Soils and Fert. 27: Abst. 284

Jane, M. (1967).

Microbiological observations on an experiment with compost.

Rhodesia Zambia Malawi, Jagr. Res. 5 (1), 43.

(Biol. Abst. 48: 123449, 1967).

Jedrzejwska, D.A. (1957).

The microflora of soil in the Williams rotation.
Soils and Fert. 20 (3): 150.

Keilling, I.H. (1964).

Soil biological data.

C.R. Acad. Agric. Fr. 50, 1131-1138.

Soils and Fer. 28 (4): 2484.

Keilling, J., A. Gamus, G. Savignac, Ph, Dauckez, M.

Biotel and Planet (1960).

Contribution of the study of the biology of soils.

Compt. Rend. Acad. Agric. France 46: 647-652.

Soils and Fertilizers 24, (1) : Abst. 244 .

Kevis, C. (1910).

Cited by Mossel, D.A.A. (1967).

Ecological principles and methodology aspects of
the examination of foods and feed for indicator
microorganisms.

J.A.O.A. 50: 91.

Khalil, K.I. (1979).

Utilization of Zagazig town refuse in crop ferti-
lization.

M.Sc. Thesis, Fac. Agric. Zagazig Univ., A.R.E.

Khaziyev, F. KH and I.K. Khabirov (1983).

Physiographic factors and enzymatic activity of soils.

Soils and Fertilizers Vol. 48, No. 4 ABS 3426.

Kobayashi, M. and M.Z. Hague (1971).

Plant and soil, spec.

Vol. 443-456 (Cited by D.C. Yoch and D.I. Arnon,

Biological N₂ Fixation by photosynthetic bacteria,

In: The Biology of Nitrogen Fixation, ed. A. Quispel,

North-Holland Publishin Co. Amsterdam, 1974.

-----, E. Takahaski and K. Kawaguchi (1967).

Distribution of nitrogen fixing microorganisms in
Paddy soils of Southeast Asia. Soil Science, 104:
113-118.

Kononova, M.M. (1961).

Soil organic matter. Its Nature, Its role in
soil formation and soil fertility.

Pergamon, Pub. New York.

----- (1966).

Soil organic matter, its nature, its role in soil
formation and in soil fertility.

Pergamon Press Ltd., Oxford.

Koser, S.A. (1926).

The coli-aerogenes group in soil.

J. AWWA, 15: 641.

Koslov, K.A. (1962).

Study of the biological activity of soils in
Eastern Siberia.

Soviet Soil Sci. (4): 381.

Krasilnikov, N.A. (1959).

The microbiology of Lichens.

Soils and Ferti. 15 (6): 399.

Kudack, C. (1978).

Effect of amendment with straw upon the chemical
physical and biological properties of a light soil.
Soils and Fertilizers Vol. 45 No. 2 Abst. 1655(1982).

Kugelman, I.J. and P.L. McCarty (1965).

Cation toxicity and stimulation in anaerobic waste treatment. 1. Sludge feed studies. J. Water pollution control Federation 37: 97-116.

Kumar, V. and R.J. Wagenet (1984).

Urease activity and kinetics of urea transformation in soils.
Soil Sci. 137 (4): 263-269.

Ladd J.N. and J.H.A. Butler (1972).

Short term assay of soil proteolytic enzymes using proteins and dipeptide derivatives as substrates. Soil Biology and Bio-chemistry 4, 19-30.

Laugesen, K. (1972).

Urease activity in Danish soils.
Tids. Planteavl. 76 (2): 221, Soils and Fert. 37, 5.

Latypova, R.M. (1968).

Enzymes activity of the soil and the condition of the media.
in (Soil enzymes).

Lenhard, G. (1956).

The dehydrogenase activity in soil as a measure of the activity of soil microorganisms.
Z. Pfl. Ernähr. Dung. Bodenl. 73:1.
Biblio. on "enzymes in soil". Comm. Bur. Soil, U.K.

Lingle, J.W. and E.R. Hermann (1975).

Mercury in anaerobic sludge digestion.

J. Water Pollut. Control. Fed., 47: 466-471.

Liu-~~Ke~~-Xin and Chen Guang-Qian (1981).

Studies on the biogas fermentation of Chinese rural areas.

Global Impact of Applied microbiology (Giamvi) Sixth International Conference. Ed. Emejuaiwp, S.O. et al. pp. 261-272.

Loginow, W. (1968).

Effect of long continued application of dung and lime on some factors of soil productivity.

Zesz. Probl. Postep. Nauk rol. 77A: 57-62.

Soils and Fert. 32 .Abst. 3902, 1969.

Lunt, H.A. (1953).

The case for sludge as a soil improver with emphasis on value of pH control and toxicity of minor elements.

Repr. Wat. E. Sewage wks. New Haven.

Soils and Fert. 17, Abst. 246, 1954.

Mahmoud, S.A.Z.; S.M. Taha, S.H. Salem and M.Z. El-Fouly (1979).

Effect of soil moisture on urea hydrolysis and subsequent nitrification in differant soils.

Egypt. J. Microbiol. 14 No. 1-2, p. 11-20.

Mahmoud, M.H.; S.A. El-Shimi, I.M. Abdel-Aziz and M.N. Alaa El-Din (1982).

Fertilizer value of biogas manure. I. Nitrogen for maize.

Inter. African Conf. on Bio-fertilizers, Cairo, Egypt, 22-26 March, 1982.

Lahmoud, M.H.; S.A. El-Shimi, I.M. Abdel-Aziz and M.N. Alaa-El-Din, (1984).

Effect of storage on biogas manure. a) evaluation of biogas manure as a fertilizer for maize. 2nd. Conference, ARC. Giza, 9-11 April 1984, Egypt.

Magdoff, F.R. and D.R. Bouillon (1970).

Nitrogen fixation in submerged soil sand energy material media and the aerobic - anaerobic interface. Plant and soil 33, 49-61 (1970).

Maramba, F.D., E.D. Obias, J. Banzon, C. Taganas, R.D. Alumbro and A.A. Judan (1978).

Biogas and waste recycling. Maya Farms Div. Liberly Flour Mills, Inc., Metro, Manilla, Philippines.

Martin, J.P. (1950).

Use of acid rose bengal and streptomycin in the plate method for estimating soil fungi. Soil Sci. 69 (3): 215-233.

Martin, J.E. and D.M. Doty (1949).

Determination of inorganic phosphate. Analyt. Chem. 21: 965.

Mathiur, S.P., and M.P. Levesque (1980).

Relationship between acid phosphatase activities and decomposition rates of twenty virgin peat materials.

Communication in soil science and plant analysis (2): 155-162 (en, 22 ref.).

Soils and Fert. Vol, 44 (3) Abst., 2106.

McCarty, P.L. (1964).

Anaerobic waste fundamentals. III. Toxic material and their control.

Public Works, 95: 91.

McInerney, M.J., and M.P. Bryant (1981).

Review of methane fermentation fundamentals, In: Fuel gas production from Biomass. D.L. Wise (ed.) Volume 1, CRC Press, Boca Raton.

McLean, W. and G.W., Robinson (1934).

A new method for the determination of ammonical nitrogen in soils.

J. Agric. Sci. 14: 548-554.

Medrick, T.F. and W. Litsky (1960).

Comparative incidence of coliform bacteria and enterococci in undisturbed soil.

J. Appl. Microbiol., 8: 60.

Minki, K. and T. Mori (1968).

Effects of incorporated organic matter such as compost, raw straw, clover grass residues...etc. on the fertility of mineral soil.

Soils and Fertilizers 31 (6): Abst .533

Monib, M.; M.A. Abdel-Salam, Y. Abdel-Malek and M. A. Shady, (1970).

Study of the effect of organic materials on the non-symbiotic nitrogen fixation under the conditions of Kharga Oasis soils, A.R.E.

Desert Ins. Bull., Vol. XX (2): 393.

- Monib, M.; Y. Abdel-Malek, I. Hosny, Tomader T. El-Hadidy and R. El-Shahawy (1974).
Effect of organic matter additions on microbial activities of Wadi-El-Natrun soils.
Zbl. Bakt. Abt. 11, Bd., 129: 439.
- Mobarak, M.S.M. (1960).
Addition of organic manures to Tahreer soil and their on microflora and some plant nutrients.
M.Sc. Thesis Fac. Agric. Ain-Shams Univ.
- Nasr, A. Fayza, (1980).
Production of methane from biomass.
Ph.D. Thesis, Fac. of Engineering, Cairo Univ.
- Neweigy, N.A.; T.M. El-Husseiny, Ehasan A. Hanafy and Nadia I.M. Abdel-Hady (1984).
Influence of organic matter addition on microbiological activities in calcareous and sandy soils in Egypt.
Annals of Agric. Sci. Moshtohor, Vol. 22, p.223-236. (1984).
- Nilson, P.E. (1957).
Influence of crop on biological activites in soil.
K. Lantbrhogsk. Ann. 23, 175-218.
(Soils and Fert. 20 (5) Abst. 1687: 270 (1957).
- Nowak, W. (1964).
Vergleichsstudien Swischen dem Mikro-organismengehalt des Bodens und seiner Saccharase Aktivitat.
Plant and Soil 20: 302.
- Olson, S.R., O.V. Cole, F.S. Watanabe and A.L. Deen (1954).
Estimation of available phosphorus in soils by extrac-tion with sodium bicarbonate.
U.S. Dept. Agric. Circ. 939.

- Omar, M.A.; T. El-Kobbia, H. Hamdi and G.H. Hammada (1970).
Mineralization of Cairo Twon refuse at different
rotting stages and its effect on plant growth.
J. Soil Sci. A.R.E. 10 (2): 281-298.
- Omran, A.A.M. (1979).
Comparative studies on the effect of some local
organic manures on certain soil microorganisms.
M.Sc. Thesis, Fac. Agric., El-Minia Univ., A.R.E.
- Peshakov, G.; Uy. Magriso, B. Donailov, and A.
Angelov, (1976).
Effect of green manuring of vineyards on some
groups of soil microorganisms.
Pochvo Znanie Agrokimiya, 11 (3): 115.
(C.F. Soils and Fert. 40 (3) Abst. 1136, 1977).
- Peterson, N.V. (1967).
Dehydrogenase activity in the soils as a mirror
of the activity of its microflora.
Mikrobiologia, 36, 518-525.
- Pfeffer, J.T. (1974).
Temperature effects on anaerobic fermentation of
domestic refuse.
Biotechnol. Bioengng 16: 771-787.
- Piper, C.S. (1950).
Soil and plant analysis.
Inter - science publishers, New York.
- Pochon, J.; de Barjac and J. Lajudie (1957).
Researches sur la microflora des sols.
Suhariens. Ann. Inst. Pasteur (Paris), 92 : 833-836
(C.F. West and Skujins, 1978).

Pokorna-Kozova, J. (1984).

Effect of long-term fertilization on the dynamics of changes of soil organic matter.

Soils and fertilizers, vol. 48, No. 4, Abs. 3225 1985.

Pomares Garcia, F. and P.F. Pratt (1979).

The effect of manure and sewage sludge on some chemical properties of soil.

Soils and Fert. Vol. 45, No. 4, Abst. 4221 .

Pyle, L. (1978).

Anaerobic digestion. The technical options. p.9-65.

International Development Research Center (II RC, 103e).

Raghavachari, T.N.S. (1926).

The application of Koser's citrate utilization tests to sanitary water analyses in India.

Ind. J. Med. Res. 14: 47.

Rajabapaiah, P., K.V. Ramanayya, S.R. Mohan and A.K.N. Reddy, (1979).

Studies in biogas technology: Part 1, performance of a conventional biogas plant.

Proceedings of the Indian Academy of Science, 62, Part 3, 357-363.

Ramaswami, P.P.; D.D. Raj and K.V. Selvaraj, (1979).

Effect of continuous application of manures and fertilizers on some of the physico-chemical and microbiological properties of soil under irrigated condition.

Mysore journal Agricultural Science (1979). 13 (2) 167-170

Ramirez-Martinez, J.R. (1968).

Organic phosphatase mineralization and phosphatase activity in soils.

Fol. Microbiol. 13: 161-174.

Rankov, V. and G. Dinitrov (1971).

Soil phosphatase activity resulting from the manuring of tomato and cabbage.

Pochvoznanie Agrokhimiya 6 (5); 93-98.

Soils and fertilizers Vol. 35 (5), Abst. 4113.

Rao, A.V. and B. Venkateswarlu (1983).

Microbial ecology of the soils of Indian desert.

Soils and fertilizers Vol. 47 (No. 5) Abs. 4447) 1984.

Ras'kova, N.V.; N.G. Zyrin, and G.N. Platonov, (1983).

Changes in soil enzyme activity under influence of cadmium and lead.

Soils and Fertilizers Vol. 47, No. 8, Abs. 8459.

Ricards, L.A. (1954).

Diagnosis and improvement of saline and alkali soils.

U.S.A. Dept. Agric. Handbook, No. 60.

Rice, W.A.; E.A. Paul and L.R. Watter (1967).

The role of anaerobiosis in asymbiotic nitrogen fixation.

Can. J. Microbiol, 13: 829-836.

Ross, D.J. (1977).

Protease activity and its relationship to nitrogen mineralization in some soils under pasture and tussock grassland. New-Zealand Journal of Science 20: 179-185.

Rother, J.A. and J.W. Millbank (1983).

Implications of soil sampling methods for the acetylene reduction assay as a measure of nitrogen fixing potential.

Soil Biology and Biochemistry 15 (3) 379-380

Runov, E.V. and O.S. Terckhov (1960).

The question of the catalase activity of several forest soils.

Pchvove denie No. 9, 75-80.

Soils and Fertilizers, 23, Abst. 249.

Saber, M.S.M. (1966).

Studies on the effect of sewage effluent on the microbial activities in soil.

M.Sc. Thesis, Fac. Agric., Cairo Univ., A.R.E.

Sathianathan, M.A. (1975).

Biogas-achievements and challenges.

Association of voluntary agen for rural Development, Sugar printers and Publishers, New Delhi.

Sharma, N.; L.L. Srivastava and B. Mishra (1984).

Studies on microbial changes in soil as a result of continuous application of fertilizers, farmyard manure and lime.

Journal of the Indian Society of soil science (1983)
31 (2) 202-206

Singh, R.G. (1972).

The biogas plant generating methane from organic wastes.

Compost Sci. 13: 20.

Singh, L.; R.N.S. Verma and S.S. Lohai (1980).

Effect of continuous application of farmyard manure and chemical fertilizers on some soil properties. Journal of the Indian Society of soil science, 28 (2): 170-172

Soils and Fert. Vol. 44 (9), Abst. 7281.

Skujins, J. and A.D. McLaren, (1969).

Assay of urease activity using C^{14} urea in stored, geologically preserved, and irradiated soils. Soil Biol. Biochem. 1:89

Skujins, J. and B. Klubek (1978).

Nitrogen fixation and cycling by blue green algae-lichen-crusts in arid ranged soils.

Env. Role of N-fixing B.G.A. and Asymbiotic Bacteria, Ecol. Bull. (Stockholm) 26: 164-171.

Smith, N.R. and H. Humfield (1930).

Effect of rye and vetch green measures on the microflora, nitrates and hydrogen ion concentration of two acid and neutralized soils.

J. Agric. Res. 41: 97-124.

Speir, T.W. (1977).

Studies on a climosequence of soils in tussock grasslands. 11. Urease, phosphatase and sulphatase activities of topsoils and their relationship with other soil properties including plant available sulphur. New Zealand Journal of Science 20, 159-166.

Starkey, R.L. (1958).

Interrelation between micro-organisms and plant roots in the rhizosphere.

Bacteriol. Rev. 22: 154.

Stevenson, I.L. (1958).

Interrelation between microorganisms and plant roots in the rhizosphere.

Bacteriol. Rev., 22: 154-172.

Stevenson, I.L. (1959).

Dehydrogenase activity in soils.

Can. J. Microbiol., 5: 229-235.

Stewart, W.D.P. (1976).

Nitrogen fixation. Free living nitrogen fixing bacteria, Regional training course on fundamental Res. On Microbial. biomass production with relation to environment, Cairo.

Tabatabai, M.A. (1973).

Michaelis constants of urease in soils and soil fractions.

Soil Sci. Soc. Amer. Proc. 37, 5: 707.

Tabatabai, M.A. (1977).

Effect of trace elements on urease activity in soils. Soil Biol. Biochem. Vol. 9, pp. 9-13.

Taha, S.M.; S.A.Z. Mahmoud, A. El-Damaty, and A.N. Ibrahim (1966).

Effect of prolonged use of fertilizers on the chemical and microbiological properties of soil.

J. Microbiol., A.R.E. 1 (1), 57-71.

Tanikawa, W. (1968).

Effects of compost application on crop yield and soil properties in volcanic ash soil.

Bull. Kyushu Agric. Exp. Stn. 12, 103-118 (J.E.)

(Kyushu Agric. Exp. Stn. Nishigoshi, Kumamoto, Japan).

(C.F. Soils and Fert. 31 (5) Abst. 3562:439, 1968).

Vaselenko, E.S. and A.V. Rebalkina (1968).

The activity of some enzymes in the soil treated
with organic matter.

In (soil enzymes) 1968.

Vavuls, F.P., L.A. Karyagina, and T.I. Kolyada (1969).

Effect of fertilizers on the microflora and enzymic
activity of sad-podzolic and peat-loamy soils.

Tr. Beleruss. Narch-issled. Institute P-o-chv-oved
1969. No. 6, 122-135 (Russ. USSR).

Velsen, A.F.M. Van (1977).

Anaerobic digestion of piggery waste.

I. The influence of detention time and manure
concentration.

Neth. J. Agric. Sci. 25, 151-169.

Velsen, A.F.M. Van (1979).

Anaerobic digestion of piggery waste.

II. Start. up procedure.

Neth. J. Agric. Sci. 27: 142-152.

Verstraete, W. and J.P. Voets (1976).

Soil microbial and biochemical characteristics
in relation to soil management and fertility.

Laboratory of general and industrial microbiology
Univ. Gent. Coupure 533, 9000 Gent. Belgium.

Soil Biol. Biochem. Vol. 9, pp. 258.

Vlasyuk, P.A. and A.P. Lisoval (1968).

Effect of plant and fertilizers on the activity
of some soil enzymes.

In (soil enzymes) 1968.

Waksman, S.A. (1952).

Soil microbiology.

John Wiley and Sons Inc., New York.

Waksman, S.A. and F.G. Tenney (1927)

The composition of natural organic materials
and their decomposition in the soil.II

Influence of the age of the plant on rapidity
and nature of its decomposition-Rye plants.

Soil Sci., 24 : 317-335 .

Watt, G.W. and J.D. Crisp . 5 1954) .

Spectrophotometric method for determination
of urea .

Anal .Chem . 26 : 452-453 .

West , N.E. and J. Skujins 1978 .

Nitrogen in Ecosystem .

Structure ; In : Nitrogen in Desert

Ecosystems , ed.N.E. West and J.Skujins;

(1978) .

pp. 244 - 253 .

Wilson, G.S.; R.S. Tweg, R.C., Wright, C.B. Hardly, M.P.

Cowell and I. Mair (1935).

The bacteriology grading of milk.

Sp. Rpt. Ser. Med. Res. Coun. London, 206.

Winsor, G.W. (1958).

Mineralization and immobilization of nitrogen,
in soil.

J. Sci. Food Agric. 2: 792-801.

----- . and A.G. Pollard (1957).

Carbon nitrogen relationships in soils IX.

Mineralization of carbon and nitrogen.

Soils and Fert. 20 (1). Abst. 10 .

Winter, J.U. and C.L. Cooney (1980).

Fermentation of cellulose and fatty acids with
enrichments from sewage sludge.

Eur. J. Appl. Microbiol. Biotechnol. 11: 60-66.

(Cited by Gamal-El-Din et al. Fac. Agric. Fayoum,
Cairo Univ. Egypt).

Wise, D.L.; W.D. Boyd, M.J. Blanchet; E.C. Remdios and B.M. Jenkins (1981).

In situ methane fermentation of combined agricultural residues.

Resources and conservation, 6, 275-294.

Elsevier Scientific Publishing Company, Amsterdam, Printed in the Netherland.

Wujcik, W.J. and W.J. Jewell (1980).

Dray anaerobic fermentation.

Biotechnology and bioengineering symp. No. 10, p. 43-65. John Wiley and Sons Inc, New York.

Yuan, C.Y. (1984).

The utilization of animal and human wastes in rice production in China.

Inst. of Agric. Modernization, Jiangsu Academy of Agric. Sciences, Nanjing 210014, China.

Publ. Los Banos, Laguna, Philippines, International Rice Research Institute, 1984, 179-191.

Zakharov, I.S. and N.V. Sergeeva (1957).

The distribution of aerobic cellulose decomposing bacteria in some soils under crop rotations in Noldaira.

Soils and Fert. 20 (2): 97.

Zohdy, L.I. and S.M.S. Badr El-Din (1983a).

Comparison of biogas slurry treatments. I. On the biological and chemical properties of a virgin sandy soil cultivated with wheat.

J. Microbiol; 18, No. 1-2, pp. 115-125, Egypt.

----- (1983b).

Comparison of biogas slurry treatments. II. On the wheat yield, nitrogen and phosphorus uptake and nitrogen balance in a virgin sandy soil.

Egypt. J. Microbiol., 18, No. 1-2, pp. 127-134.

Zohdy, L.I., S.M.S., Badr-El-Din and M.A. Khalafallah
(1983).

Handling and storage of the digested slurry produced
from the biogas digester.

Egypt. J. Microbiol., 18, No. 1-2, pp. 107-114.

----- S.M.S. Badr-El-Din, M.A. Khalafallah
and H.K. Abdel-Maksoud (1984a).

Follow up the fermentation progress in the
digested slurry of biogas digester from the
standpoint of its fertilizing value.

Egypt. Journal Microbiol, Vol. 19, No. 1, pp.
123-130.

----- (1984b).

Evaluation of digested slurry as a fertilizer.

II. Effect on biological and chemical properties
of firgin sandy soil. Egypt.

J. Microbiol. 19, No. 1 , pp. 131-138.