

THE UNIVERSITY OF BRITISH COLUMBIA

PUBLICATIONS RECORD

NAME IN FULL (surname first): DIEWERT, Walter Erwin

FACULTY: Arts

DEPARTMENT OR SCHOOL: Economics

(Complete two copies according to the following categories):

Date of most recent revision (please initial)

Oct. 15/19 _____

- a) Publications or original works (including books, performances, films, exhibitions, etc.). List in proper bibliographical form according to the discipline including title and pagination, and indicate with an asterisk those you consider of primary importance. Include only those published or in press. Work appearing in refereed publications should either be identified by an ^R in the left hand margin beside the bibliographical entry or by separate listing under the heading: Refereed Publications.

Example 1:

^RFaiman, M.D., Nolan, R.J. "Effect of High Oxygen Pressure on Brain ATP", *Biochem. Pharmacol.* 22:2171-2181 (1973)

Example 2:

*Dubos, Rene, "Man Adapting", Yale University Press, New Haven Connecticut, 1965, 300 pages.

- b) Completed and unpublished material including Commission Reports, Discussion Papers or similar materials (include only those of significance; if paper read at a conference, indicate date and nature of conference as well as status of other material).
- c) Work in progress (indicate degree of completion at the time of last updating of curriculum vitae).

a) Publications or original works: Journal Articles

*1 "An Application of the Shephard Duality Theorem: A Generalized Leontief Production Function", *The Journal of Political Economy* 79:3 (May-June 1971), pp. 481-507.

2 "A Note on the Elasticity of Derived Demand in the N Factor Case", *Economica* 38 (May 1971), pp. 192-198.

*3 "Afriat and Revealed Preference Theory", *Review of Economic Studies* 40:3 (July 1973), pp. 419-425.

4 "On a Theorem of Negishi", *Metroeconomica* 25:2 (May-August 1973), pp. 119-135.

- *5 “Functional Forms for Profit and Transformation Functions”, *Journal of Economic Theory* 6:3 (June 1973), pp. 284-316.
- *6 “Functional Forms for Revenue and Factor Requirements Functions”, *International Economic Review* 15:1 (February 1974), pp. 119-130.
- 7 “A Note on Aggregation and Elasticities of Substitution”, *Canadian Journal of Economics* 7:1 (February 1974), pp. 12-20.
- *8 “Intertemporal Consumer Theory and the Demand for Durables”, *Econometrica* 42:3 (May 1974), pp. 497-516.
- *9 “The Effects of Unionization on Wages and Employment: A General Equilibrium Analysis”, *Economic Inquiry* 12:3 (September 1974), pp. 319-339.
- *10 “Unions in a General Equilibrium Model”, *Canadian Journal of Economics* 7:3 (August 1974), pp. 475-495.
- *11 “The Samuelson Nonsubstitution Theorem and the Computation of Equilibrium Prices”, *Econometrica* 43:1 (January 1975), pp. 57-64.
- *12 “Harberger's Welfare Indicator and Revealed Preference Theory”, *The American Economic Review* 66:1 (March 1976), pp. 143-152.
- *13 “Exact and Superlative Index Numbers”, *Journal of Econometrics* 4:2 (June 1976), pp. 114-145.
- *14 “Frank Knight's Theorem in Linear Programming Revisited”, (with A.D. Woodland), *Econometrica* 45:2 (March 1977), pp. 375-398.
- *15 “Generalized Slutsky Conditions for Aggregate Consumer Demand Functions”, *Journal of Economic Theory* 15:2 (August 1977), pp. 353-362.
- *16 “Flexible Functional Forms and Expenditure Distributions: An Application to Canadian Consumer Demand Functions”, (with E.R. Berndt and M.N. Darrough), *International Economic Review* 18:3 (October 1977), pp. 551-576.
- *17 “Optimal Tax Perturbations”, *Journal of Public Economics* 10 (1978), pp. 138-177.
- *18 “Superlative Index Numbers and Consistency in Aggregation”, *Econometrica* 46:4 (July 1978), pp. 883-900.
- *19 “Expenditure Functions, Local Duality, and Second Order Approximations”, (with C. Blackorby), *Econometrica* 47 (May 1979), pp. 579-601.
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- *21 “Capital and the Theory of Productivity Measurement”, *American Economic Review* 70 (1980), pp. 260-267.
- *22 “The Elasticity of Derived Net Supply and a Generalized Le Chatelier Principle”, *The Review of Economic Studies* 48 (1981), pp. 63-80.

- *23 "The Comparative Statics of Industry Long-Run Equilibrium", *Canadian Journal of Economics* 14 (1981), pp. 78-92.
- *24 "Direct Versus Implicit Superlative Index Number Formulae", (with R.C. Allen), *The Review of Economics and Statistics* VOL. LXIII, No. 3 (August 1981), pp. 430-435.
- *25 "The Measurement of Deadweight Loss Revisited", *Econometrica* 49:5 (September 1981), pp. 1225-1244.
- *26 "Nine Kinds of Quasiconcavity and Concavity", (with M. Avriel and I. Zang), *Journal of Economic Theory* 25:3 (December 1981), pp. 397-420.
- *27 "Multilateral Comparisons of Output, Input and Productivity using Superlative Index Numbers", (with D.W. Caves and L.R. Christensen), *The Economic Journal* 92 (March 1982), pp. 73-86.
- *28 "The Economic Theory of Index Numbers and the Measurement of Input, Output, and Productivity", (with D.W. Caves and L.R. Christensen), *Econometrica* 50 (November 1982), pp. 1392-1414.
- 29 "The Decomposition of Frontier Cost Function Deviations into Measures of Technical and Allocative Efficiency", (with R.J. Kopp), *Journal of Econometrics* 19 (1982), pp. 319-331.
- 30 "The Duality Implications of a Concave Aggregator Function", *Economic Letters* 11 (1983), pp. 197-201.
- *31 "The Measurement of Waste Within the Production Sector of an Open Economy", *Scandinavian Journal of Economics* 85:2 (1983), pp. 159-179.
- *32 "Cost-Benefit Analysis and Project Evaluation: A Comparison of Alternative Approaches", *Journal of Public Economics* 22:3 (December 1983), pp. 265-302.
- *33 "Sensitivity Analysis in Economics", *Computers and Operations Research* 11:2 (1984), pp. 141-156.
- *34 "The Measurement of Deadweight Loss in an Open Economy", *Economica* 51:1 (1984), pp. 23-42.
- 35 "Consumption Theorems in Terms of Over and Under Compensation Revisited", (with L.E. Edlefsen), *International Economic Review* 25 (June 1984), pp. 379-384.
- *36 "A Dynamic Approach to the Measurement of Waste in an Open Economy", *Journal of International Economics* 19 (1985), pp. 213-240.
- *37 "Tests for the Consistency of Consumer Data", (with C. Parkan), *Journal of Econometrics* 30 (1985), pp. 127-147.
- *38 "Adjusting Output and Productivity Indexes for Changes in the Terms of Trade", (with C.J. Morrison), *The Economic Journal* 96 (September 1986), pp. 659-679.
- *39 "Flexible Functional Forms and Global Curvature Conditions", (with T.J. Wales), *Econometrica* 55 (January 1987), pp. 43-68.
- *40 "The Effects of an Innovation: A Trade Theory Approach", *The Canadian Journal of Economics* 20 (November 1987), pp. 694-714.

- *41 "A Normalized Quadratic Semiflexible Functional Form", (with T.J. Wales), *Journal of Econometrics* 37 (March 1988), pp. 327-342.
- *42 "On Tax Reform", *The Canadian Journal of Economics* 21 (February 1988), pp. 1-40.
- *43 "Normalized Quadratic Systems of Consumer Demand Functions", (with T.J. Wales), *Journal of Business and Economic Statistics* 6 (July 1988), pp. 303-312.
- *44 "Productivity and Pareto Improving Changes in Taxes and Tariffs", (with A.H. Turunen-Red and A.D. Woodland), *Review of Economic Studies* 56 (April 1989), pp. 199-216.
- *45 "New Techniques in the Measurement of Multifactor Productivity", (with C.J. Morrison), *The Journal of Productivity Analysis* 1 (1990), pp. 265-285.
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- *49 "Exact and Superlative Welfare Change Indicators", *Economic Inquiry* Vol. XXX, (October 1992), pp. 565-582.
- *50 "Quadratic Spline Models For Producer's Supply and Demand Functions", (with T.J. Wales), *International Economic Review* 33:3 (August 1992), pp. 705-722.
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- *56 "The Deadweight Costs of Taxation in New Zealand", (with D.A. Lawrence), *Canadian Journal of Economics* 29 (April 1996), pp. S658-S673.
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- 59 "The CPI Commission: Discussion", *American Economic Review* Vol. 87:2 (May 1997), pp. 95-98.

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- *61 "Index Number Issues in the Consumer Price Index", *The Journal of Economic Perspectives* Vol. 12:1 (1998), pp. 47-58.
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- 63 "The Measurement of Inflation after Tax Reform", (with K.J. Fox), *Economics Letters* 61 (1998), pp. 279-284.
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- 66 "Introduction and Overview", (with A.O. Nakamura and A. Sharpe), *Canadian Journal of Economics* 33:2 (April 1999), pp. 3-15.
- *67 "Can Measurement Error Explain the Productivity Paradox?", (with K.J. Fox), *Canadian Journal of Economics* 32:2 (April 1999), pp. 251-280.
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- *70 "Incentive Indexes for Regulated Industries", (with K.J. Fox), *Journal of Regulatory Economics* 17:1 (2000), pp. 5-24.
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- 108 “Scanner Data, Time Aggregation and the Construction of Prices Indexes”, (with K.J. Fox and L. Ivancic), *Journal of Econometrics*, Vol. 161:1, (2011), pp. 24-35.

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- 120 “Hedonic Regressions and the Decomposition of a House Price Index into Land and Structure Components”, (with Jan de Haan and Rens Hendriks), *Econometric Review*, No. 34(1-20), (2015), pp. 106-126.
- 121 “A Conceptual Framework for Commercial Property Price Indexes”, (with Chihiro Shimizu), *Journal of Statistical Science and Application*, (2015), Volume 3, No. 9-10, pp. 131-152.
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- 123 “Hedonic Regressions and the Decomposition of a House Price index into Land and Structure Components”, (with R. Hendriks), *Econometric Reviews*, (2015), Volume 34:1-2, pp. 106-126.
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- 126 “Estimating Quality Adjusted Commercial Property Price Indexes Using Japanese REIT Data” (with C. Shimizu, K.G. Nishimura and T. Watanabe), *Journal of Property Research*, 32(3), (2015), pp. 217-239.
- 127 “Innovations in Measurement in Economics and Econometrics: An Overview”, editorial with W.A. Barnett and E. Maasoumi (eds.), *Journal of Econometrics*, Volume 191(2), (2016), pp. 273-275.
- 128 “Measuring Industry Productivity and Cross-Country Convergence”, (with R. Inklaar), *Journal of Econometrics*, Volume 191(2), (2016), pp. 426-433.
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- 131 “Commercial Property Price Indexes and the System of National Accounts”, (with Kevin J. Fox and Chihiro Shimizu), *The Journal of Economic Surveys*, 30:5 (2016), pp. 913-943.
- 132 “Decomposing Productivity Indexes into Explanatory Factors”, (with Kevin J. Fox), *European Journal of Operational Research*, Volume 256, (2017), pp. 275-291.
- 133 “Hedonic Regression Models for Tokyo Condominium Sales”, (with Chihiro Shimizu), *Regional Science and Urban Economics*, 60, (2017), pp. 300-315.
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- 137 “A Decomposition of US Business Sector TFP Growth into Technical Progress and Cost Efficiency Components”, *Journal of Productivity Analysis* 50 (2018), 71-84.
- 138 “Addendum to Output Growth and Inflation Across Space and Time” (with Kevin Fox), forthcoming in *EURONA*, pp.1-10.

a) Publications: Books

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- 2 *The Measurement of the Economic Benefits of Infrastructure Services*, Lecture Notes in Economics and Mathematical Systems, Springer-Verlag, Berlin, (1988), 202 pp.

- 3 *Generalized Concavity*, (with M. Avriel, S. Schaible and I. Zang), New York: Plenum Press, (1988), pp. 332.
 - 4 *Price Level Measurement* (editor), Contributions to Economic Analysis 196, Amsterdam: North-Holland, (1990), 377 pp. (This is a shrunken version of book 1 listed above).
 - 5 *Essays in Index Number Theory Volume 1*, editor (with A.O. Nakamura), Contributions to Economic Analysis 217, Amsterdam: North-Holland, (1993), 551 pp.
 - 6 *Mathematical Modelling In Economics*, Essays in Honor of Wolfgang Eichhorn, editor (with K. Spremann and F. Stehling), Springer-Verlag, Berlin, (1993), 713 pp.
 - 7 *The Marginal Costs of Taxation in New Zealand*, Canberra: Swan Consultants, (with D.A. Lawrence), (March 1994), 123 pp.
 - 8 *International Trade Price Indexes and Seasonal Commodities*, editor (with W. Alterman and R.C. Feenstra), Washington: DC, U.S. Department of Labor, Bureau of Labor Statistics, (1999), pp. 247.
 - 9 "Asset Valuation and Productivity-Based Regulation Taking Account of Sunk Costs and Financial Capital Maintenance", (with Denis Lawrence and John Fallon), *Economic Insights*, Report Prepared for Commerce Commission, Government of New Zealand, Wellington NZ, (2009), pp. 64.
 - 10 "The Theory of Network Regulation in the Presence of Sunk Costs", (with Denis Lawrence and John Fallon), *Economic Insights*, Report Prepared for Commerce Commission, Government of New Zealand, Wellington NZ, (2009), pp. 93.
 - 11 *Generalized Concavity*, editor (with M. Avriel, S. Schaible and I. Zang), *SIAM, Classics in Applied Mathematics*, Vol. 63, Philadelphia, (2010), pp. 332.
 - 12 *Consumer Price Statistics in the UK*, for the ONS (Office for National Statistics), Government Buildings, Cardiff Road, Newport, UK, NP10 8XG: Office for National Statistics, (2012), 100 pp.
 - 13 *Eurostat Handbook on Residential Property Price Indices (RPPIs)*, (editor with Jan de Haan), Eurostat European Commission, Luxembourg: Publications Office of the European Union, (2013), pp. 1-186.
- a) Publications: Government Publications and Contributions to Books
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 - 2 "Comments on Lerner and Kierans", in *Perspectives on the Wage-Price-Unemployment Problems: Stop the Market, I Want to Get Off*, V.F. Mitchell and W.T. Stanbury (eds.), Versatile Publishing Co., (1972) pp. 167-170.
 - 3 "Separability and a Generalization of the Cobb-Douglas Cost, Production and Indirect Utility Functions", Research Branch, Department of Manpower and Immigration, Ottawa, (January 1973), 44 pp.
 - *4 "Applications of Duality Theory", in *Frontiers of Quantitative Economics* Vol. II, edited by M. Intriligator and D. Kendrick, North-Holland, Amsterdam, (1974), pp. 106-171.

- *5 “Annual Employment, Industry by Occupation in Canada, 1926-1965 on a Labour Force Survey Basis”, (with A.D. Woodland), Research Projects Group, Department of Manpower and Immigration, Ottawa, Ontario, (March 1975), 42 pp.
- 6 “Annual Employment, Industry by Occupation in Canada, 1926-1974 on an Employment Survey Basis and Estimates of Occupational Earnings”, Research Projects Group, Department of Manpower and Immigration, Ottawa, Ontario (1975), 206 pp.
- *7 “Walras' Theory of Capital Formation and the Existence of a Temporary Equilibrium”, in *Equilibrium and Disequilibrium in Economic Theory*, E. Schwödiauer, editor, Reidel Publishing Co., (1977), pp. 73-126.
- *8 “Hicks' Aggregation Theorem and the Existence of a Real Value Added Function”, pp. 17-51, Vol. 2, in *Production Economics: A Dual Approach to Theory and Applications*, M. Fuss and D. McFadden (eds.), North-Holland, Amsterdam, (1978).
- *9 “Aggregation Problems in the Measurement of Capital”, in *The Measurement of Capital*, edited by D. Usher, Studies in Income and Wealth, Vol. 45, National Bureau of Economics Research, University of Chicago Press, Chicago, (1980), pp. 433-528.
- *10 “The Economic Theory of Index Numbers: A Survey”, in *Essays in the Theory and Measurement of Consumer Behaviour in Honour of Sir Richard Stone*, edited by A. Deaton, Cambridge University Press, Cambridge, England, (1981), pp. 163-208.
- *11 “The Theory of Total Factor Productivity Measurement in Regulated Industries”, in *Productivity Measurement in Regulated Industries*, edited by T. Cowing and R. Stevenson, Academic Press, New York, (1981), pp. 17-44.
- *12 “Introduction to Concave and Generalized Concave Functions”, (with M. Avriel, S. Schaible and W.T. Ziemba), in *Generalized Concavity in Optimization and Economics*, S. Schaible and W.T. Ziemba (eds.) , Academic Press, New York, (1981), pp. 20-50.
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- 164 “The System of National Accounts and Alternative Approaches to the Construction of Commercial Property Price Indexes”, (with Chihiro Shimizu), Discussion Paper 19-09, University of British Columbia, Vancouver, B.C., Canada (October 2019), 37 pages.

c) Work in Progress

1. Further work on hedonic regression techniques in the measurement of house price change
2. The contribution of changes in the terms of trade to real income growth
3. Problems in the measurement of capital and income
4. Investigation of possible biases in the UK’s consumer price indexes
5. Problems in the measurement of productivity