

# *Index*

- Adjustment, 254-55  
    demand, 5-8  
    models, 254-68  
    problems, 299-300  
    units, 249-50
- Aggregate supply function, 163-65
- Aggregation, 32-33, 54-58
- Aggregative time-series data, 29, 294-96
- Agricultural products supply, 31-62
- Agricultural research programs, 302
- Analyses, budgeting and engineering, 170-76
- Analysis  
    regression, 204-5  
    supply, 3-28
- Approaches, 16-19
- Bachman, Kenneth L., 276-78
- Baker, C. B., 213-53
- Barton, Glen T., 72-73
- Bell, Robert D., 197-99
- Bonnen, James T., 254-68
- Budgeting and engineering analyses, 170-76
- Canonical regressions, 282
- Certainty equivalent, 42-45
- Change  
    supply, 19-23  
    technological, 23, 32
- Cobweb, 49-53
- Cochrane, Willard W., 63-73
- Coefficients, demand for, 280
- Competition models, 204-10
- Concepts, supply analysis, 3-28
- Cost functions, 139-51, 296-97
- Crickman, C. W., 266-69
- Day, L. M., 177-89
- "Decay rate," 283
- Demand  
    adjustment, 5-8
- Demand (continued)  
    analysis, 254-68  
    changes, 215, 16  
    factor, 5-8  
    studies, 128-136  
    supply, 5-8
- Diesslin, Howard G., 293-302
- Disciplines involved in research, 9-11
- Dynamics in supply, 19-23
- Econometric studies, 131-34
- Egbert, Alvin C., 203-30
- Empirical techniques, 8
- Endogenous determination, 173-75
- Epp, A. W., 187-89
- Equivalent, certainty, 42-45
- Estimated coefficients  
    discussions, 285-89  
    model building, 280  
    non-price factors, 284  
    prospective uses of, 279-89  
    references, 284  
    two-price deals, 283-84
- Estimating supply response, 187-89
- Expectation formation  
    adaptive, 46-47  
    extrapolative, 45-46  
    models of, 45-49  
    rational, 47-49
- Expectations, 22-23, 34-36, 42-54
- Factor demand, 5-8
- Factors  
    fixed and quasi-fixed, 33-34, 36-42  
    supply, 23-24
- Farmer supply analysis, 203-30
- Farmer supply response, 177-89
- Feed-grain production, 272-73
- Feed-livestock economy  
    changes in functioning, 274  
    demand changes, 274-75  
    livestock production, 273  
    supply analyses, 274-75

- Feed-livestock relationships, 1922-41, 271-72  
 Fixed factors, 54-58  
 Fixed resources, 20-21  
 Forecasting, 279-80  
 Foundation, production, 11-16
- Graphic analysis, 281
- Halter, A. N., 104-7  
 Heady, Earl O., 3-25, 203-30  
 Houseman, Earl E., 190-99
- Individual farm model, 154-59  
 Input-output models, 207-10  
 Institutional restrictions, 157-58
- Interregional competition  
 analysis, 210-13  
 empirical model, 218-26  
 formal models, 213-18  
 input-output model, 207-10  
 models, 204-10  
 transportation programming model, 205-7
- Interregional programming models, 226-27
- Intra-farm normative aggregate supply function, 163-65  
 profit equation construction, 159-62  
 programming, 152-69
- Investments, fixed factors and quasi-fixed factors, 33-34, 36-42
- Jensen, H. R., 177-89  
 Johnson, D. Gale, 60-62  
 Johnson, Glenn L., 170-76  
 Judge, George G., 285-88  
 Justus, Fred E., Jr., 150-51
- Kehrberg, Earl W., 139-51  
 Knight, Dale A., 74-107
- Learn, Elmer W., 63-73  
 Linear programming, 153-54, 179-82  
 Livestock production, 273  
 Loftsgard, Laurel D., 152-69
- McKee, Dean E., 152-69  
 Macro supply response, 297-99  
 Magnitude of research, 9-11  
 Micro sources of data, 296-99  
 Multiple product studies, 244-49
- National demand aggregates, 259-60  
 Need, 24
- Nerlove, Marc, 31-62  
 Normative approaches, 16-19  
 Normative supply functions, 170-76
- Olson, Russell O., 288-89
- Parameters, 190-92  
 Planned supply response, 177-89  
 Plaxico, James S., 227-30
- Population  
 geographical limits of, 191-92  
 positive approaches, 16-19  
 specification of, 190-92  
 tabulation plans, 192
- Price expectation models, 87
- Procedural problems in regression analysis, 65-66
- Producing units, 211-13
- Production foundation, 11-16  
 functions, 14-16, 139-51, 296-97  
 structure, 31-32
- Profit equation, 159-62
- Programming intra-farm supply functions, 152-69
- Proposed supply response, 177-89
- Quasi-fixed factors, 33-34, 36-42
- Rational expectations hypothesis, 49-53
- Regional aggregates, 260-61  
 Regional and spatial models, 235-53  
 Regional models, 213-53  
 Regional producing units, 211-13  
 Regional production, 215  
 Regional programming, 213-18  
 Regions as adjustment units, 249-50
- Regression analysis, 29, 63-73, 204-5, 294
- Research  
 disciplines, 9-11  
 fixed, 20-21  
 flows, 173-75  
 programs, 302  
 restrictions, 156-57
- Restrictions  
 institutional, 157-58  
 resource, 156-57  
 technical, 158-59
- Sample design, 192-96  
 Sampling, 190-99  
 Schmidt, John R., 167-69  
 Short-run supply, 179-87  
 Single product studies, 234-44

- Single vs. structural equations, 281-82  
Spatial equilibrium models, 203-35,  
    299-300  
Spatial models, 213-53, 263-66  
Standard regressional approach, 295  
Staniforth, Sydney D., 293-302  
Statistical population, 190-92  
Stewart, H. L., 25-28  
Structural change  
    regression analysis, 68-71  
    supply functions, 63-73  
Structural vs. single equations, 281-82  
Study design, 255-59  
Supply analysis, 3-28, 294  
Supply change, 19-23  
Supply demand, 5-8  
Supply dynamics, 19-23  
Supply functions  
    concepts, 63-65  
    from cost and production functions,  
        139-51  
    demand studies and, 128-36  
    determination, 150-51  
    estimation, 142-49  
    interpretation, 269-89  
    intra-farm normative, 152-69  
    normative, 170-76  
    problem of estimation, 142-49  
    regression analysis of, 64-73  
    structural change, 63-73  
    theory of determination, 140-42  
Supply of factors, 23-24  
Supply parameters, 74-107  
Supply response  
    estimating, 177-89  
    farmer reaction panel, 298-99  
    feed-livestock economy, 271-78  
    needed development in, 300-301  
    planned, 177-89  
    programmed normative, 297  
    proposed, 177-89  
    study, 301  
Supply shifters, 66-68  
Supply structure, 216-18  
Swanson, Earl R., 271-78  
Technical restrictions, 158-59  
Techniques, empirical, 8  
Technological change, 23, 32  
Thomas, D. Woods, 135-36  
Time-series analysis, 31-62  
Time-series data, 29  
Time-series estimates, 74-107, 183-  
    187  
Time-series studies  
    aggregate general supply relations  
        in agriculture, 76-77  
    beef, 82-83  
    corn and feed grains, 87  
    cotton, 91  
    Cromarty's econometric model, 77-  
        78  
    demand for machinery, 95  
    eggs, 85-86  
    feed-livestock economy, 78-80  
    fertilizer demand, 94-95  
    hogs, 80-82  
    interpretation of, 76-95  
    Michigan dry bean industry, 93-94  
    milk, 83-85  
    potatoes, 92-93  
    price expectation models, 87  
    summary interpretation, 95-102  
    tobacco, 89-90  
    unharvested crops, 91-92  
    wheat, 88-89  
Transportation programming, 205-7  
Uncertainty, 22-23, 34-35, 42-54  
Uses of supply analysis, 3-28  
Waugh, Frederick V., 279-89  
West, Vincent I., 128-36  
Wilson, Walter, 253