

CONTENTS

C.	Interviews with U.S. Business, Labor, Government, and Civic Action Groups	48
D.	Classification of Stockpiling policies for Detailed Analysis	50
1.	Problem Origin, Function, and Principal Impact Mode of Eleven Policies.	50
2.	Five Stockpiling Policies Selected for Detailed Analysis	51
E.	Decision Criteria—A Model for Developing and Implementing Economic Stockpiling Policy	51
1.	Components of the Decision Criteria Model.	51
2.	Materials Selection Criteria	52
3.	Modified Delphi Technique Used To Identify Problem-Related Materials	54
IV. APPROACHES USED TO ASSESS IMPACTS OF ECONOMIC STOCKPILING		61
A.	Methods of Analyzing Economic Impacts	61
1.	General Description of Economic Welfare Model	61
2.	Three Steps in Using the Economic Welfare Model	64
3.	Discussion of Computer Program Developed to Estimate Economic Impacts of Stockpiling.	69
4.	Economic Damage Not Averted.	70
5.	Economic Impact of Not Establishing a Stockpile	70
B.	Methods of Analyzing Noneconomic Impacts.	70
1.	Discussion of Relevance Tree	71
2.	Impacts Relevance Matrix	72
V. POSSIBLE IMPACTS OF ECONOMIC STOCKPILING		77
A.	General Impacts of Economic Stockpiling	78
1.	Political Impacts of Economic Stockpiling	78
2.	Social Impacts of Economic Stockpiling.	81
3.	Market Operations Impacts	84
B.	Economic Impacts of Stockpiling to Discourage or Counteract Cartel or Unilateral Political Actions Affecting Price or Supply (SP-1).	87
1.	Derivation of Benefit Function for SP-1.	87
2.	Types of Economic Impacts Associated With SP-1...	92
3.	Estimation of Economic Net Benefits for SP-1	93
4.	Discussion of Partial Economic Benefits and Costs for Each Phase of Stockpile Operation for SP-1.	99
5.	Summary of Economic Net Benefits and Partial Benefits for SP-1.	102
C.	Economic Impacts of Stockpiling to Cushion the Impacts of Nonpolitical Import Disruptions (SP-2)	104
1.	Derivation of Benefit Function for SP-2.	104
2.	Estimation of Economic Net Benefits for SP-2	106
3.	Discussion of Partial Benefits and Costs for Each Phase of Stockpile Operation for SP-2.	111
4.	Summary of Economic Net Benefits and Partial Benefits for SP-2.	113
D.	Economic Impacts of Stockpiling to Assist in International Materials Market Stabilization (SP-3)	115
1.	Derivation of Benefit Function for SP-3.	115
2.	Estimation of Economic Net Benefits for SP-3	118
3.	Discussion of Partial Benefits and Costs for Each Phase of Stockpile Operation for SP-3.	122
4.	Summary of Economic Net Benefits and Partial Benefits for SP-3.	124

5. Tariff Concessions to Countries Producing Raw Materials	176
6. Increased Recycling of Secondary Materials	177
7. Role of Public Lands in Increasing Domestic Supply.	178
C. Alternatives to Maintain Stable Levels of Supply	179
1. Inventory Management	179
2. Futures Markets	181
3 Standby Capacity	182
4. International Commodity Agreements.	182
D. Alternative Methods to Restrict Demand	185
1 _o Conservation \$ 0....	185
2. Substitution	186
3. Export Controls	187
E. Summary of Alternatives and Impacted Sector Groups	187
1. Alternatives to Economic Stockpiling Policies	187
2. Sectors Impacted by Alternatives to Economic Stockpiling	187
VIII LEGISLATIVE CONSIDERATIONS REGARDING ECONOMIC STOCKPILING	191
A. Options for Considering Economic Stockpile Legislation	191
1. Evolution of Current Public and Private Systems Without Enacting New Legislation	191
2. Congressional Options Without Enacting New Legislation	192
3. Executive Options Without Enacting New Legislation	192
4. Options Through Enacting New Legislation.	192
B. Institutional Considerations for Establishing an Economic Stockpile	198
1. Management Considerations	198
2. Institutional Arrangements.	198
C. Public Policy Issues Related to Establishing an Economic Stockpile	201
IX. GLOSSARY	205
A, Organizations and Terms—Abbreviations	205
B. Definitions	206
X. REFERENCES	211
A. Stockpiling	211
B. Materials Assessment.	213
C. Technology Assessment.	215
D. Cartels	216
E. Input-Output Models	217
F. General	217
APPENDICES	
Appendix A—History, Management, and Problems of Stockpiling in the United States	221
A. Introduction	221
B, Legislative History of Stockpiling,	221
C. Legislative and Executive Authority for Stockpiling Programs	223
D. Selection of Stockpiled Materials	226
E. Mobilization Requirements.	228
F. The Stockpile Policy Controversy.	229
G. The Mobilization Readiness Program	235

Appendix B—Case Studies	241
A. Long-Term Program for Disposal of Government Stockpiles of Aluminum	241
B. Titanium Stockpile Program, 1972-75.	245
C. Expansion of Copper Producing Capacities: The Defense Production Act of 1950, as Amended	249
D. Releases of Copper From the Stockpile	251
E. Second Expansion Program, Duval Sierrita Mine	255
F. The Nickel Loan of 1970-71	257
G. International Tin Council.	260
H. International Cartels.	264
Appendix C—Economic Stockpiling in Foreign Countries	283
A. The European Economic Community Stockpiling Program.	283
B. Stockpiling in Japan	285
C. Stockpiling in France.	289
D. Stockpiling Incentives in Sweden	291
Appendix D—Relevance Trees and Weighting Matrices	295
A. Introduction	295
B. Relevance Trees	296
C. Impacts Evaluation Matrices	314
INDEX	323