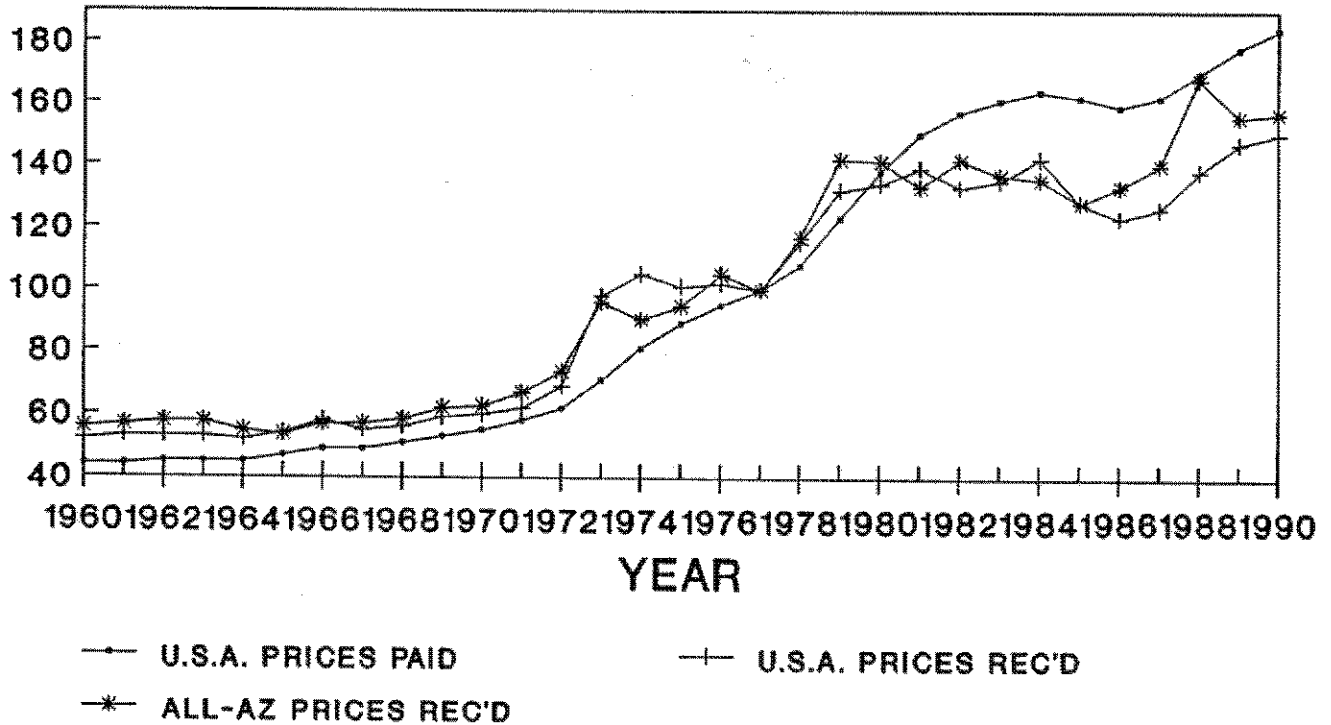


INDEX OF PRICES RECEIVED

BY FARMERS AND RANCHERS IN ARIZONA:
1960-1990

U.S.A. & AZ. PRICES PAID VS. REC'D INDEXES for 1960-1990

INDEX # (1977 = 100)



1960-1990: PRICES FARMERS PAY RISE STEADILY; PRICES RECEIVED LAG

INDEX OF PRICES RECEIVED (ARIZONA) 1960-1990

Compiled by
ARIZONA AGRICULTURAL STATISTICS SERVICE
Barry L. Bloyd, State Statistician
Debra K. Kenerson, Deputy State Statistician
201 E. Indianola, Suite 250
Phoenix, Arizona 85012
(602) 640-2573

Student Assistant
Dean G. Fairchild

A cooperative function of:

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service

Charles E. Caudill
Administrator

Donald M. Bay
Deputy Administrator for Operations

Fred S. Barrett
Director, State Statistical Division

THE UNIVERSITY OF ARIZONA
College of Agriculture
Department of Agricultural Economics

Manuel T. Pacheco
President

Eugene S. Sander
Dean, College of Agriculture

Bruce R. Beattie
Head, Department of Agricultural Economics

January 1992

FOREWORD

The price indexes published here rely upon the work of dozens of individuals who have helped the Arizona Agricultural Statistics Service (formerly the Arizona Crops and Livestock Reporting Service) over the past three decades. It is impossible to thank each of the many individuals responsible for compiling the annual estimates of prices received for Arizona, but four groups deserve special thanks.

- 1) Farmers, Ranchers, & Agribusinesses responding to surveys
- 2) Office and field Enumerators
- 3) University of Arizona and cooperating agencies
- 4) Office staff of the Arizona Ag statistics service

This bulletin was prepared by Dean Fairchild, a graduate student in Agricultural Economics at the University of Arizona. Most of the work was accomplished during his employment during the Summer of 1991 as a student assistant in the Arizona Agricultural Statistics office in Phoenix. His efforts are greatly appreciated.

INDEXES OF PRICES RECEIVED BY ARIZONA FARMERS: 1960-1990

Arizona Agriculture Statistics Service ---

TABLE OF CONTENTS

How to use Indexes of Prices Received 1960-1990 (1)	
SECTION 1: WHAT ARE PRICE INDEXES?	1
SECTION 2: HOW ARE PRICE INDEXES CALCULATED?	2
SECTION 3: THE ALL-ARIZONA AG COMMODITIES INDEX	5
SECTION 4: THE ALL-ARIZONA CROPS INDEX	9
SECTION 5: THE ALL-ARIZONA LIVESTOCK INDEX	11
SECTION 6: COMMODITY GROUP INDEXES: All Vegetables (12); Fruits & Nuts (13); Grains (14); Cotton & Cottonseed (15); Cattle & Calves (17); Sheep, Lambs & Wool (18)	12
SECTION 7: OTHER COMMODITIES: Hay, Dairy, Poultry, Hogs, and Miscellaneous	18
SECTION 8: VARIABILITY OF INDIVIDUAL AND GROUP INDEXES	19
SECTION 9: PRICES PAID INDEXES	20
EXECUTIVE SUMMARY	23
REFERENCES	25
APPENDIX 1: More About Price Indexes	26
APPENDIX 2: The Concept of Seasonal Average Price	28
APPENDIX 3: Prices Paid & Received Definition & Sources	30
APPENDIX 4.A: VEGETABLE INDEX WEIGHTS (All Vegetables)	32
APPENDIX 4.B. PRICES RECEIVED INDEXES FOR VEGETABLES CONT. (not incl. lettuce) (33); APPENDIX 4.B. (cont). INDIVIDUAL PRICES RECEIVED INDEXES FOR VEGETABLES (lettuce) (34); APPENDIX 4.C: PRICES FOR VEGETABLES (non-lettuce) (35); APPENDIX 4.C (cont.): PRICES FOR VEGETABLES (lettuce) (36)	
APPENDIX 5.A: WEIGHTS USED TO COMPUTE FRUITS & NUTS INDEXES	37
APPENDIX 5.B. INDIVIDUAL PRICES RECEIVED INDEXES ALL FRUITS & NUTS, ARIZONA: 1960-1990 (38); APPENDIX 5.C: PRICES FOR INDIVIDUAL FRUIT & NUTS, ARIZONA -- 1960-1990 (39)	
APPENDIX 6.A: WEIGHTS FOR GRAINS, ARIZONA -- 1960-1990	40
APPENDIX 6.B: INDIVIDUAL PRICES RECEIVED INDEXES FOR GRAINS, ARIZONA: 1960-1990 (41); APPENDIX 6.C: PRICES RECEIVED FOR GRAINS, ARIZONA -- 1960-1990 (42)	

INDEXES OF PRICES RECEIVED BY ARIZONA FARMERS: 1960-1990

Arizona Agriculture Statistics Service —

APPENDIX 7.A: WEIGHTS FOR COTTON & COTTONSEED ,ARIZONA — 1960-1990	43
APPENDIX 7.B: COTTON PRICES RECEIVED INDEXES, ARIZONA: 1960-1990 (44); APPENDIX 7.C: PRICES RECEIVED FOR COTTON & COTTONSEED, ARIZONA — 1960-1990 (45)	
APPENDIX 8.A: WEIGHTS FOR CATTLE & CALVES ,ARIZONA — 1960-1990	46
APPENDIX 8.B: PRICES RECEIVED INDEXES FOR CATTLE & CALVES, ARIZONA: 1960-1990 (47); APPENDIX 8.C: PRICES RECEIVED FOR CATTLE & CALVES , ARIZONA — 1960-1990 (48)	
APPENDIX 9.A: WEIGHTS FOR SHEEP, LAMBS & WOOL ,ARIZONA — 1960-1990	49
APPENDIX 9.B: PRICES RECEIVED INDEXES FOR SHEEP, LAMBS, AND WOOL (50); APPENDIX 9.C: PRICES RECEIVED FOR SHEEP, LAMBS & WOOL, ARIZONA — 1960-1990 (51)	
APPENDIX 10.A: WEIGHTS FOR OTHER COMMODITIES INCLUDED IN ALL-ARIZONA INDEX ,ARIZONA — 1960-1990	52
APPENDIX 10.B : ANNUAL PRICES RECEIVED INDEXES FOR MISCELLANEOUS COMMODITIES (53); APPENDIX 10.C: ANNUAL PRICES FOR MISCELLANEOUS COMMODITIES, ARIZONA — 1960-1990 (54)	
APPENDIX 11: COMMODITIES NOT INCLUDED IN ALL-ARIZONA INDEXES	55
APPENDIX 12: PRICE INDEX VARIABILITY	58
APPENDIX 13: PRICES PAID INDEX WEIGHTS, U.S.A.	61
APPENDIX 14: PRICES PAID INDEXES, U.S.A. 1960-1990	62
APPENDIX 15: PRICES RECEIVED INDEXES, U.S.A. 1960-1990	63
APPENDIX 16.A: GROUPED PRICE INDEXES FOR ARIZONA, 1960-1990	64
APPENDIX 16.B: GROUPED PRICE INDEXES FOR ARIZONA: COMPARISON OF 1971-73 and 1987-89 BASE WEIGHTS (65); APPENDIX 16.C: GROUPED PRICE INDEXES FOR ARIZONA: 1987-89, CASH RECEIPTS USED TO COMPARE (68)	
INDEX OF COMMODITIES	70

LIST OF GRAPHS

1960-1990: PRICES FARMERS PAY RISE STEADILY; PRICES RECEIVED LAG	COVER
GRAPH 1: INDEX WEIGHTS 1957-59	7
GRAPH 2: INDEX WEIGHTS 1971-73	7
GRAPH 3: INDEX WEIGHTS 1987-89	7
GRAPH 4: ALL-AZ COMMODITIES PRICES REC'D INDEX VS. U.S.A.	8
GRAPH 5: ALL-AZ CROPS INDEX VS. U.S.A.	10
GRAPH 6: ALL-AZ LIVESTOCK INDEX VS. U.S.A.	11
GRAPH 7: COMMODITY GROUP INDEXES	12
GRAPH 8: AZ. CITRUS PRICES INDEX	14
GRAPH 9: ALL-AZ COTTON INDEX VS. U.S.A.	15

INDEXES OF PRICES RECEIVED BY ARIZONA FARMERS: 1960-1990

Arizona Agriculture Statistics Service ---

GRAPH 10: ARIZONA COTTON INDEXES: Upland, Pima, Seed	16
GRAPH 11: AZ. BEEF CATTLE INDEX	17
GRAPH 12: AZ CATTLE & CALVES SEPARATE PRICES REC'D INDEXES	18
GRAPH 13: USA PRICES PAID VS. REC'D	21
GRAPH 14: COST-PRICE GAP IN AZ. VS. U.S.A., 1960-1990	22