



Peanut Research Update

Center for Rural Prosperity and Innovation

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Research Activities

1. Spreadsheet files for 2020 peanut potential payment yields calculator, and decision aid.
2. Peanut consumption from Peanut Stocks and Processing.
3. Peanut and peanut butter exports from FAS, USDA.
4. Peanut market year prices from NASS, USDA.
5. Peanut certified acres from FSA, USDA.
6. GA Yield and Crop Progress Reports
7. U.S. peanut certified acres, warehouse storage capacity with maps.
8. GA peanut certified acres, warehouse storage capacity with maps.
9. Southeast region peanut certified acres, warehouse storage capacity with maps.
10. Crop Insurance - U.S. peanut acres insured by types with maps; estimating harvest price.
11. Peanut damage relative to grading.

Peanut Data Collection Lists

Name	Date modified	Type
 01AL and GA Damage Limitation	8/17/2018 3:27 PM	File folder
 02China Peanut Collection Data	8/17/2018 3:27 PM	File folder
 03Farm Bill and Farm Base Data	8/17/2018 3:27 PM	File folder
 04FSA Certified Acres	8/17/2018 3:27 PM	File folder
 05GA Peanut Yields Prediction	8/17/2018 3:27 PM	File folder
 06IRI Peanut Butter And Snack Peanut	8/17/2018 3:27 PM	File folder
 07NASS Data	1/13/2019 5:30 PM	File folder
 08Peanut Grading	8/17/2018 3:27 PM	File folder
 09Peanut Insured Data	10/16/2018 7:06 PM	File folder
 10Peanut Stocks And Processing	10/31/2018 9:28 A...	File folder
 11Research Support Files	8/17/2018 3:27 PM	File folder
 12U.S. Peanut Warehouse Data	1/12/2019 2:38 PM	File folder
 13US Peanut Cost And Return	8/17/2018 3:27 PM	File folder
 14US Peanut Prices at Markets	1/13/2019 10:40 A...	File folder
 15US Peanut Trades in the World	1/9/2019 11:38 AM	File folder
 16US Representative Farms	1/16/2019 9:38 AM	File folder
 17USDA FSIS Data	1/9/2019 11:33 AM	File folder
 18USDA PSD Data	10/15/2018 2:01 PM	File folder
 19World Peanut Data	8/17/2018 3:27 PM	File folder
 20Weather Data	8/17/2018 3:27 PM	File folder
 21Current Map file Collection	12/12/2018 2:42 PM	File folder
 22US Peanut Loan Activity	12/7/2018 6:55 PM	File folder

2020 Farm Bill Payment Yields Calculator and Decision Aid

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Center for Rural Prosperity and Innovation

Developed by

Stanley M. Fletcher - Professor of Policy, ABAC; and Professsor Emeritus, UGA

Zhaolin J. Shi - Research Professional, ABAC

Before starting this spreadsheet program, please make sure that you have read the worksheet "Intro" to fully understand the calculation instruction.

Go to Intro

Step 1. Please click

Start

It will create a new folder called "2020PaymentYields" under C: Drive

Input Your 2019 Farm Serial Number (FSN)

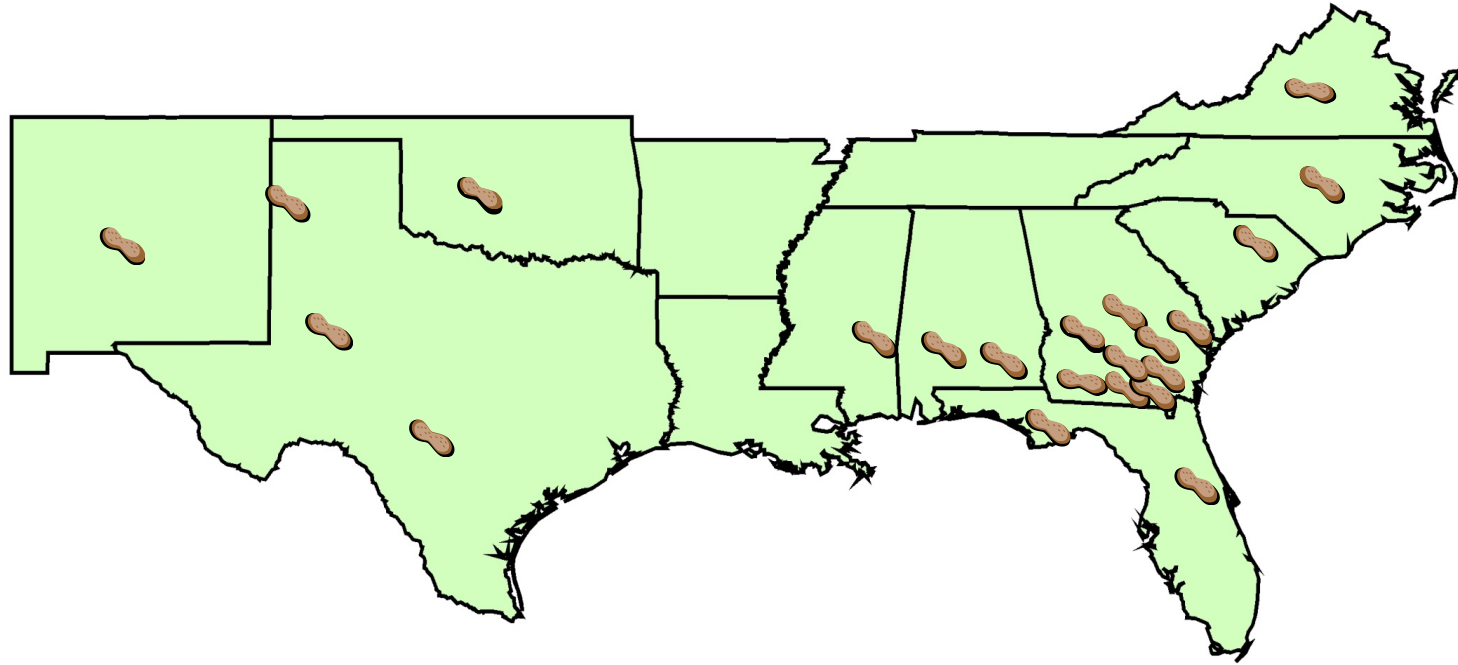
Step 2.

Step 3.

Now Click This Button And You Will Get A New Spreadsheet Name With This FSN As A Suffix

Maximum Base Acres for 1 Entity Payment Limit at \$125,000						
Max Base(acres)=125,000/(PLC Rate*0.85*Yield(tons))						
Marketing Year	Prices (\$/ton)	PLC Rate	Payment Yield (tons/acre)			
			1.75	2.00	2.50	3.00
2014/15	440	95	885	774	619	516
2015/16	386	149	564	493	395	329
2016/17	394	141	596	521	417	348
2017/18	460	75	1,120	980	784	654
2018/19 (Aug-Jan)	437	98	857	750	600	500
Loan Rate	355	180	467	408	327	272

Areas Represented by the 22 United States Representative Peanut Farms



Georgia—9 farms

Florida—2 farms

Alabama—2 farms

South Carolina—1 farm

Mississippi — 1 farm

Texas—3 farms

New Mexico—1 farm

Virginia—1 farm

North Carolina — 1 farms

Oklahoma — 1 farm

What Peanut Prices would be to match net income from future's corn and cotton prices

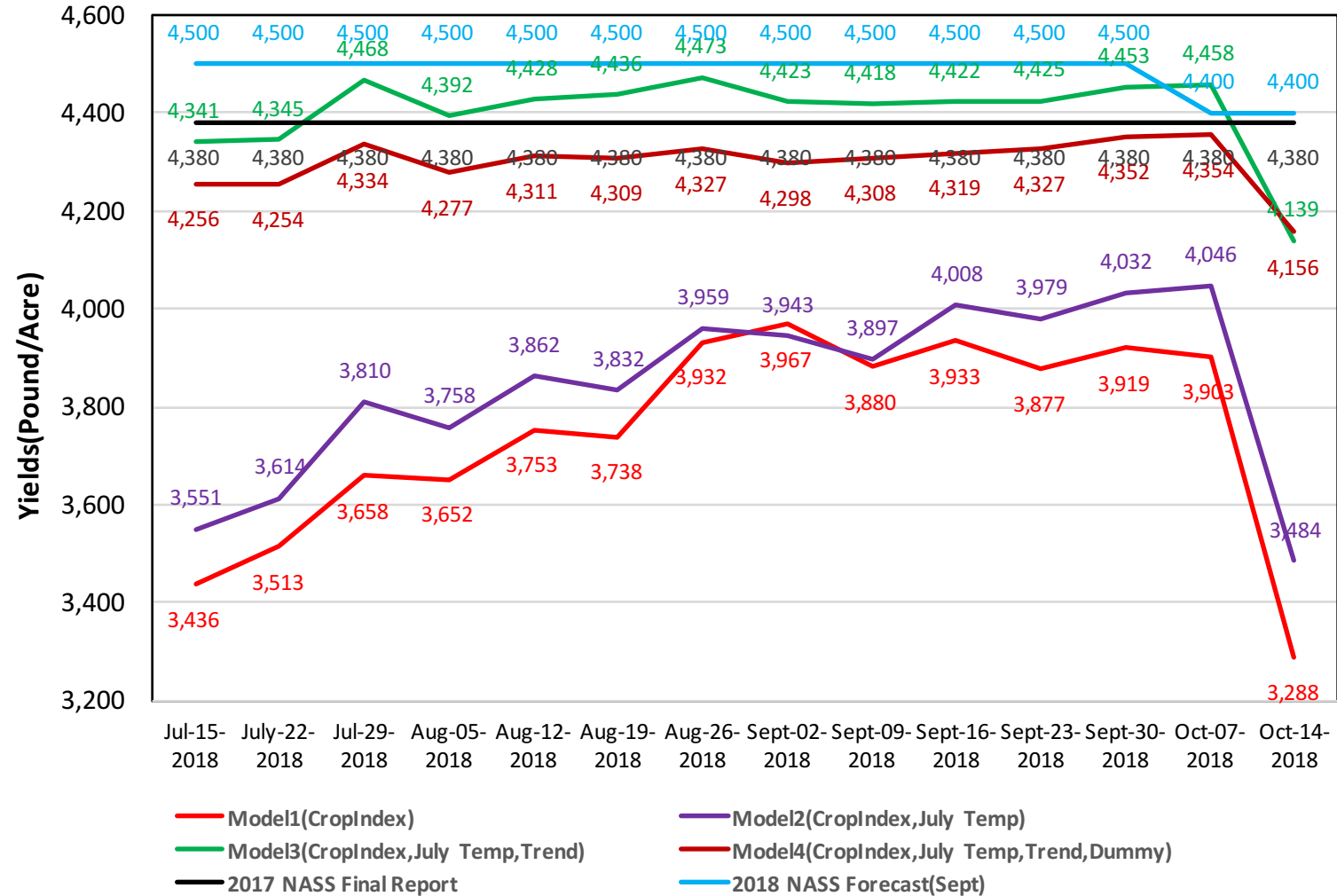
What Peanut Price would be to match net income from future's market Corn price

	UGA EXT VC				UGA EXT TC			
	Conventional Corn vs. Conventional Peanut	Strip-Till Corn vs. Conventional Peanut	Conventional Corn vs. Strip-Till Peanut	Strip-Till Corn vs. Strip-Till Peanut	Conventional Corn vs. Conventional Peanut	Strip-Till Corn vs. Conventional Peanut	Conventional Corn vs. Strip-Till Peanut	Strip-Till Corn vs. Strip-Till Peanut
Corn future price @\$4.014 /bu								
Average	383	387	374	378	405	414	383	392
Irrigation	372	377	362	367	402	411	381	390
Dryland	358	361	350	353	405	414	382	391

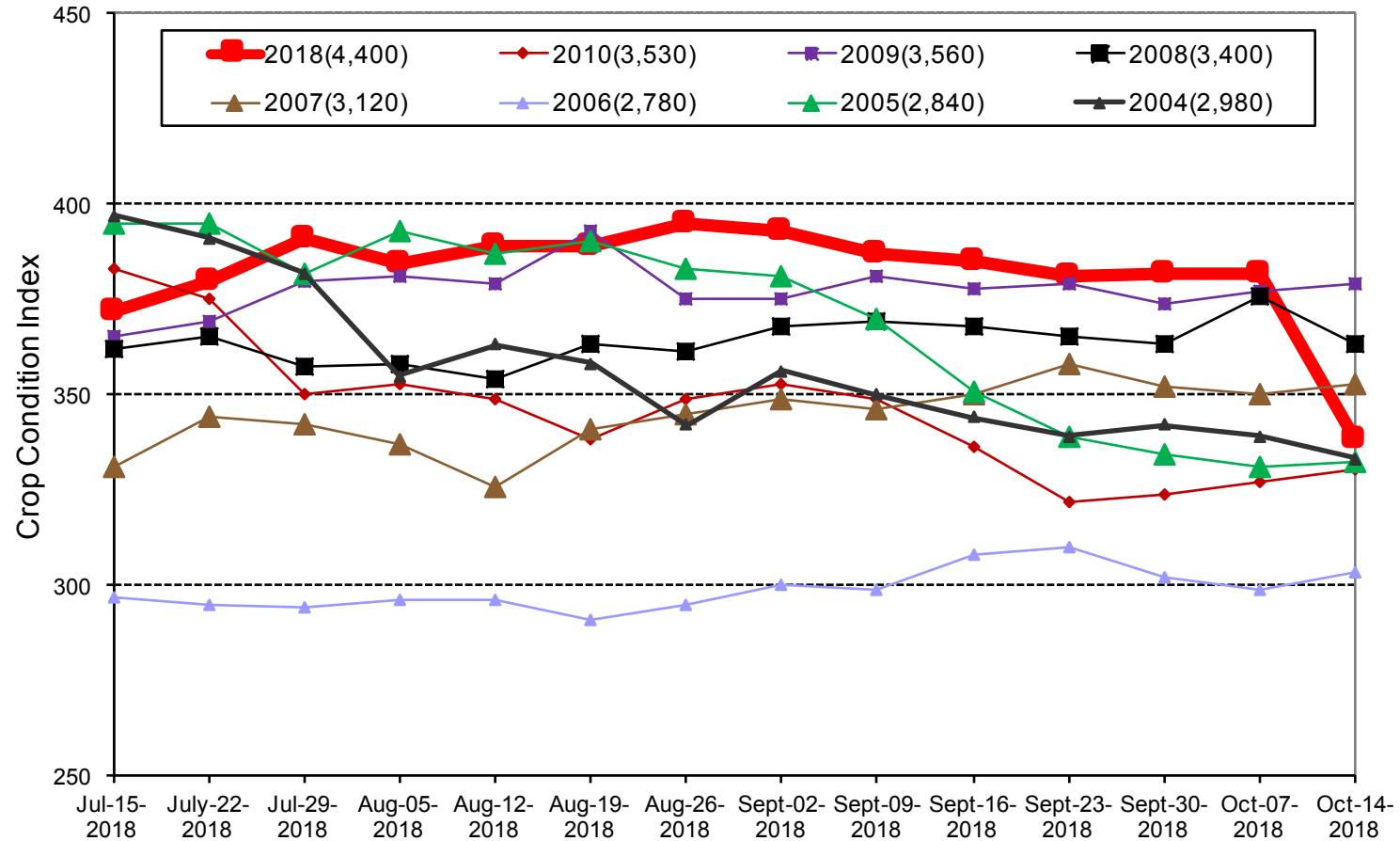
What Peanut Price would be to match net income from future's market cotton price

	UGA EXT VC				UGA EXT TC			
	Conventional Cotton vs. Conventional Peanut	Strip-Till Cotton vs. Conventional Peanut	Conventional Cotton vs. Strip-Till Peanut	Strip-Till Cotton vs. Strip-Till Peanut	Conventional Cotton vs. Conventional Peanut	Strip-Till Cotton vs. Conventional Peanut	Conventional Cotton vs. Strip-Till Peanut	Strip-Till Cotton vs. Strip-Till Peanut
Cotton future price @\$0.7364/pound								
Average	417	413	408	403	429	428	407	407
Irrigation	435	433	425	423	439	441	419	420
Dryland	413	405	405	397	420	416	397	393

GA 2018 Predicting Peanut Yields(Pounds/Acre) By Different Models And Comparison With NASS Forecasts



GA 2004 - 2010 - 2018 Peanut Crop Condition Index and NASS Yields



Note: Peanut Crop Condition Index starts at the week when peanut pegging rate reached or close to 80%.
 Numbers in parentheses are final NASS peanut yields for each year as pounds per acre.

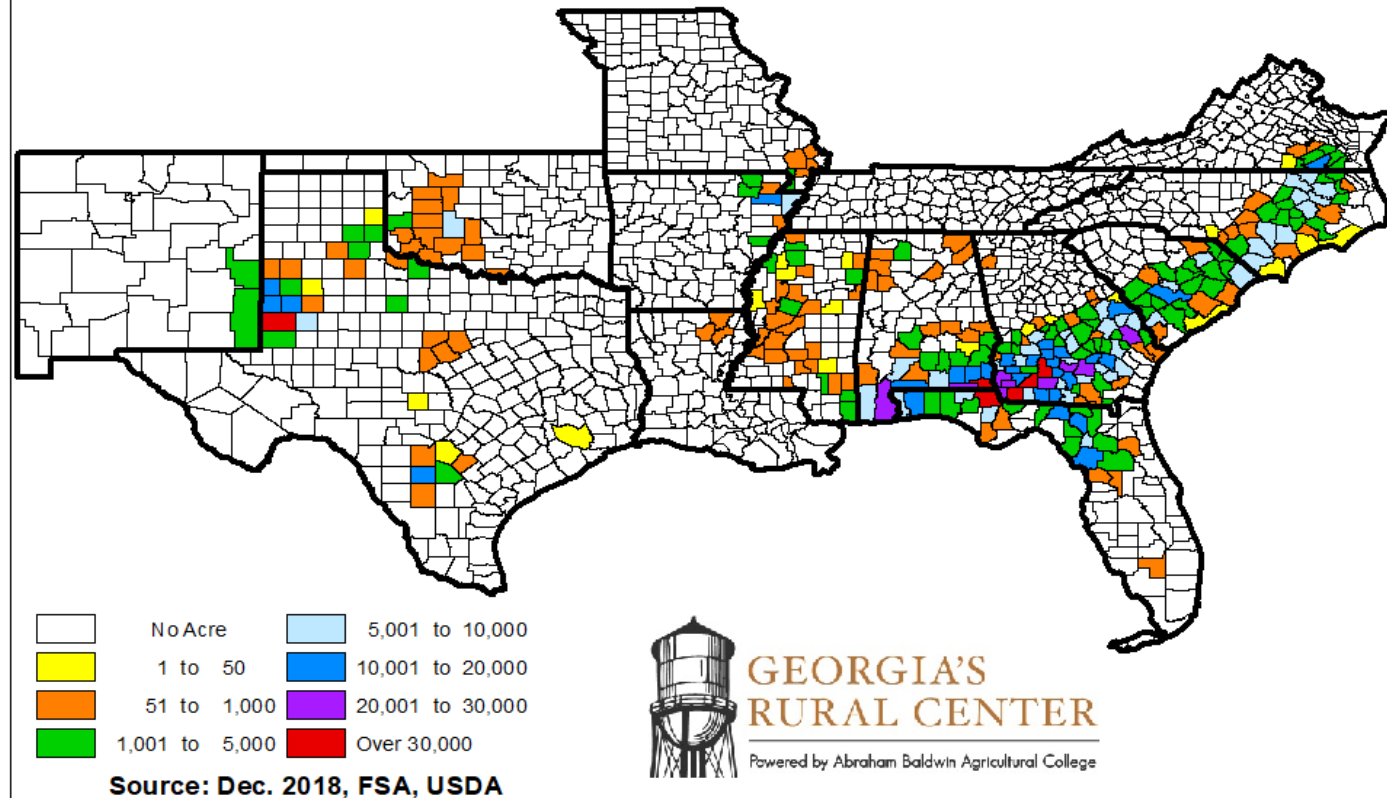
Peanut Certified Planted Acres and 2014 Base Acres Comparison

State	2009-2012 Average	2014-2017 Average	2018 Dec. Certified Acres	2014 Base	Differences to 2014 Base Acres		
					2009-12 Avg	2014-17 Avg	Dec. 2018
ALABAMA	182,293	183,557	163,140	267,643	-85,350	-84,086	-104,502
ARKANSAS	5,830	19,771	25,339	6,185	-356	13,586	19,154
FLORIDA	157,601	173,588	149,651	158,588	-986	15,000	-8,937
GEORGIA	566,646	730,087	659,310	759,883	-193,237	-29,795	-100,572
MISSISSIPPI	25,697	37,836	23,484	14,272	11,425	23,564	9,213
LOUISIANA	596	1,152	1,863	1,013	-416	139	850
MISSOURI	110	2,663	5,389	211	-101	2,452	5,179
NEW MEXCO	9,815	6,473	5,938	25,491	-15,676	-19,018	-19,553
OKLAHOMA	19,968	12,548	14,116	95,310	-75,342	-82,763	-81,194
TEXAS	141,638	214,221	149,425	426,395	-284,757	-212,174	-276,970
N. CAROLINA	84,830	100,118	99,985	158,827	-73,997	-58,709	-58,842
S. CAROLINA	74,977	112,277	85,098	79,675	-4,699	32,602	5,422
VIRGINIA	16,110	20,772	23,479	76,027	-59,918	-55,256	-52,548
U.S. Grand Total	1,285,756	1,613,267	1,406,356	2,071,680	-785,923	-458,413	-665,324

Source: Farm Service Agency, USDA

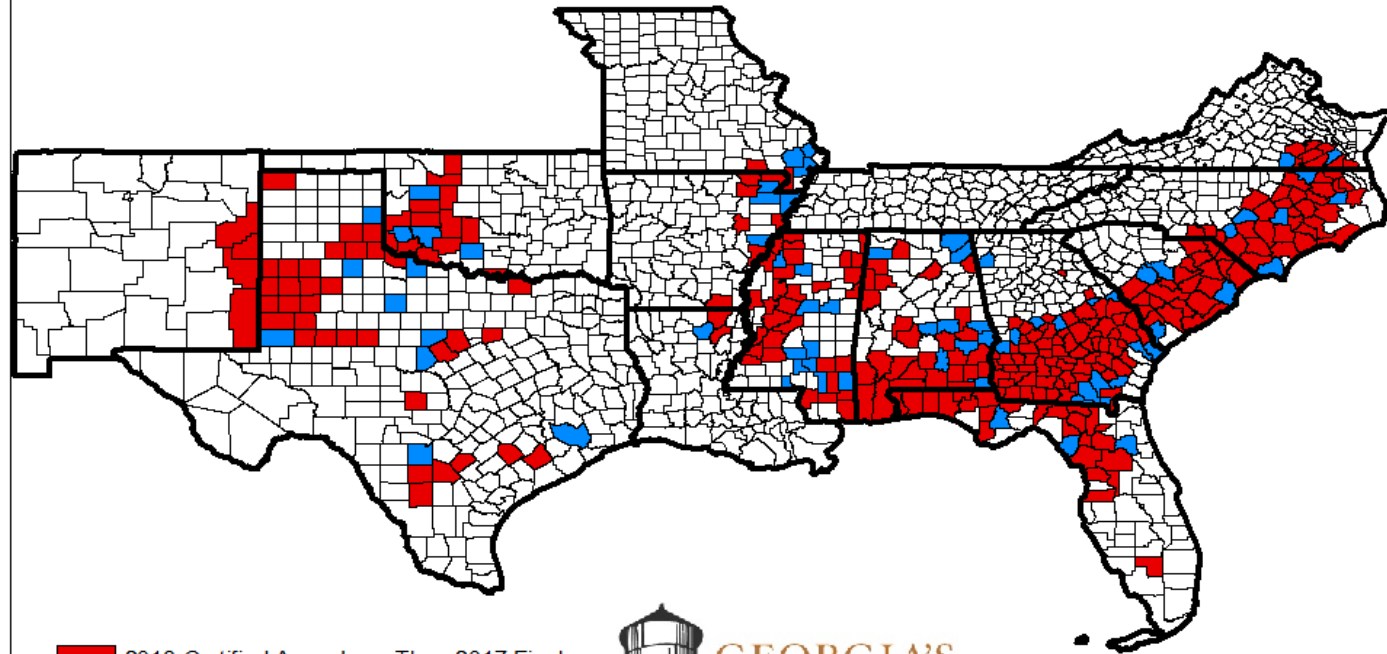
U.S. Major States Total Peanut Certified Acres

2018 December Report



U.S. Major States Peanut Certified Acres

2018 December vs. 2017 Final



- 2018 Certified Acres Less Than 2017 Final
- 2018 Certified Acres Greater Than 2017 Final

Source: Dec. 2018, FSA, USDA

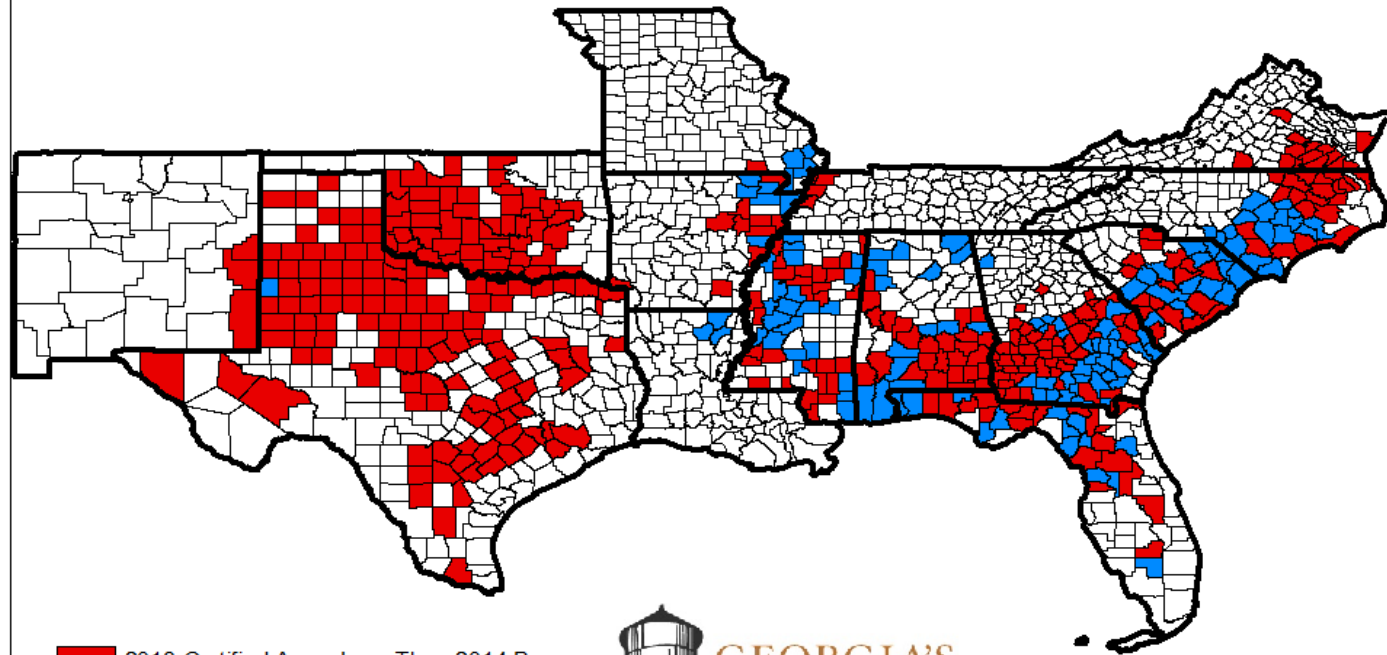


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U.S. Major States Peanut Certified Acres

2018 December vs. 2014 Base



- 2018 Certified Acres Less Than 2014 Base
- 2018 Certified Acres Greater Than 2014 Base

Source: Dec. 2018, FSA, USDA



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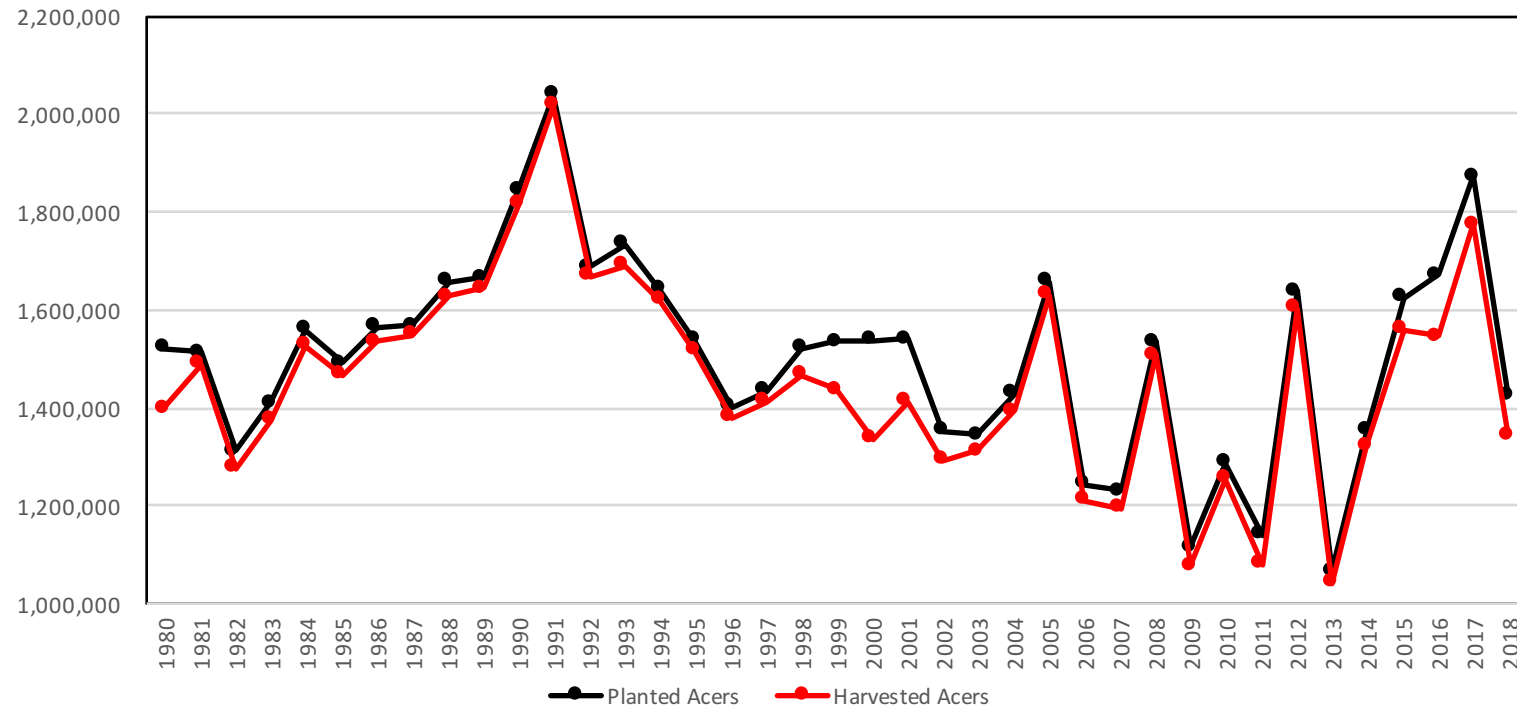
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Peanut Consumption From Peanut Stocks And Processing
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Monthly Sum			
Aug-Dec(1,000 Pounds)	2002/03	2017/18	% Change
Total Peanut	866,971	965,695	18.2
Peanut Butter	509,047	566,402	12.6
Candy Peanut	176,518	165,470	14.2
Snack Peanut	175,771	204,379	26.3
In-shell	60,599	60,890	1.1

Source: Peanut Stocks and Processing, NASS, USDA

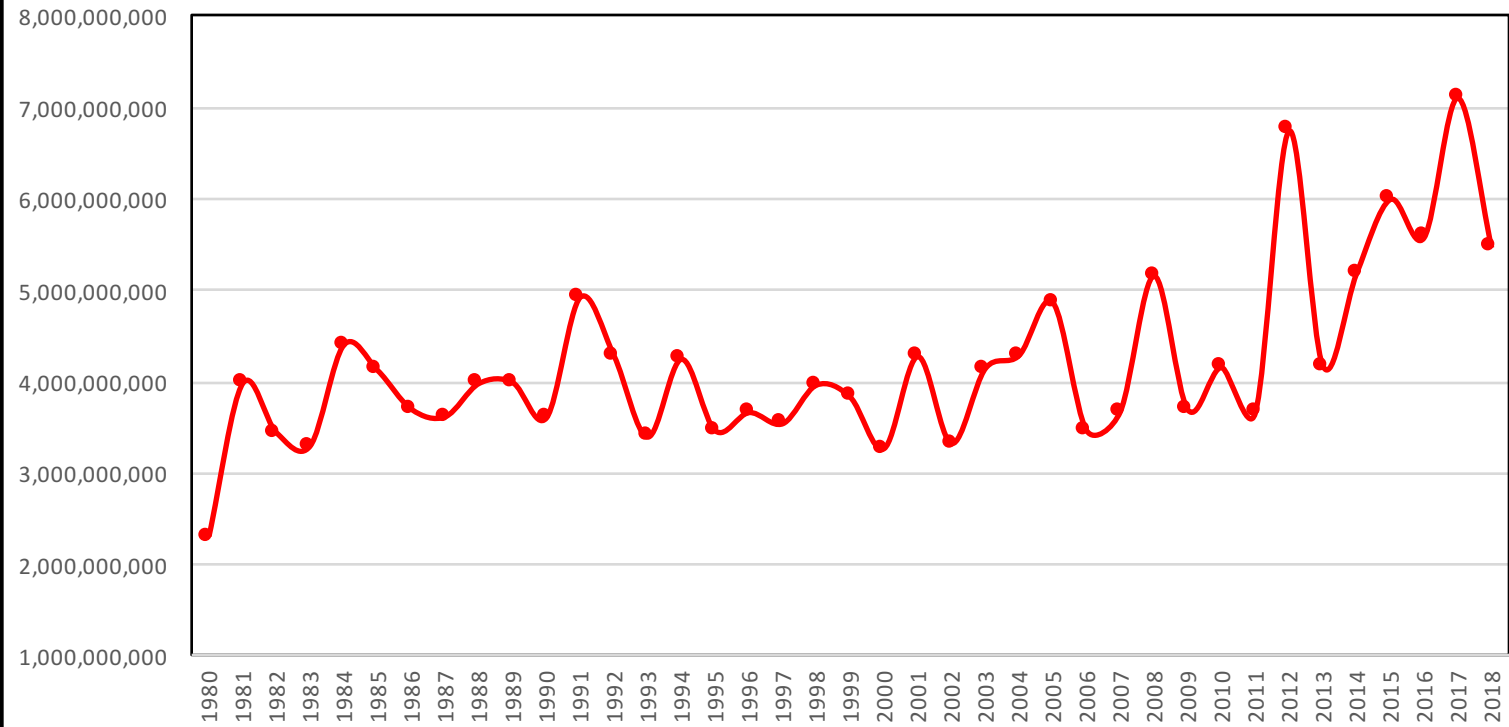
U.S. Peanut Planted and Harvested Acres



Year	2001	2018	% Change
Peanut Planted(acres)	1,541,200	1,426,500	- 7.4%
Peanut Harvested(acres)	1,411,900	1,345,500	- 4.7%

Source: NASS, USDA

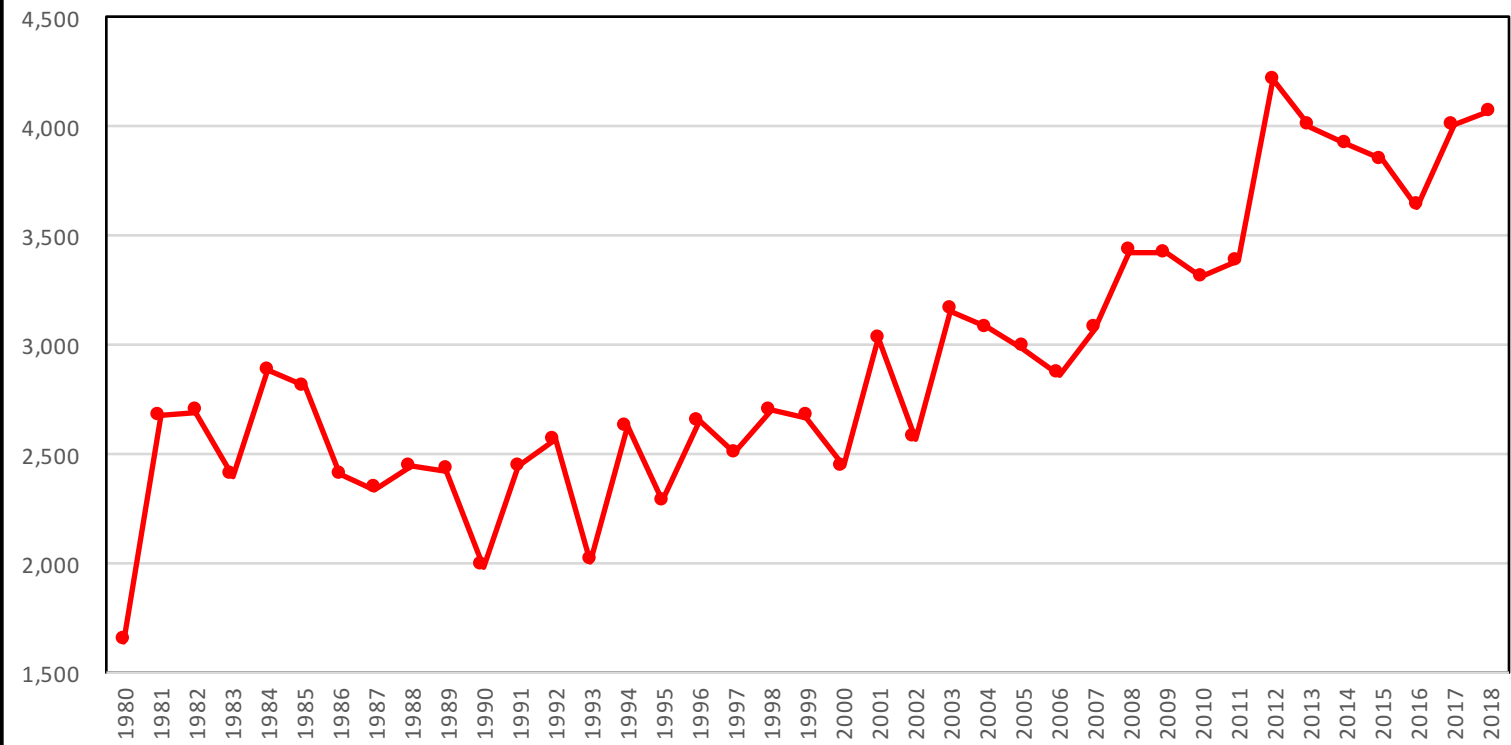
U.S. Peanut Production (pounds)



Year	2001	2017	% Change
Peanut Production (pounds)	4,276,704,000	5,471,250,000	27.9%

Source: NASS, USDA

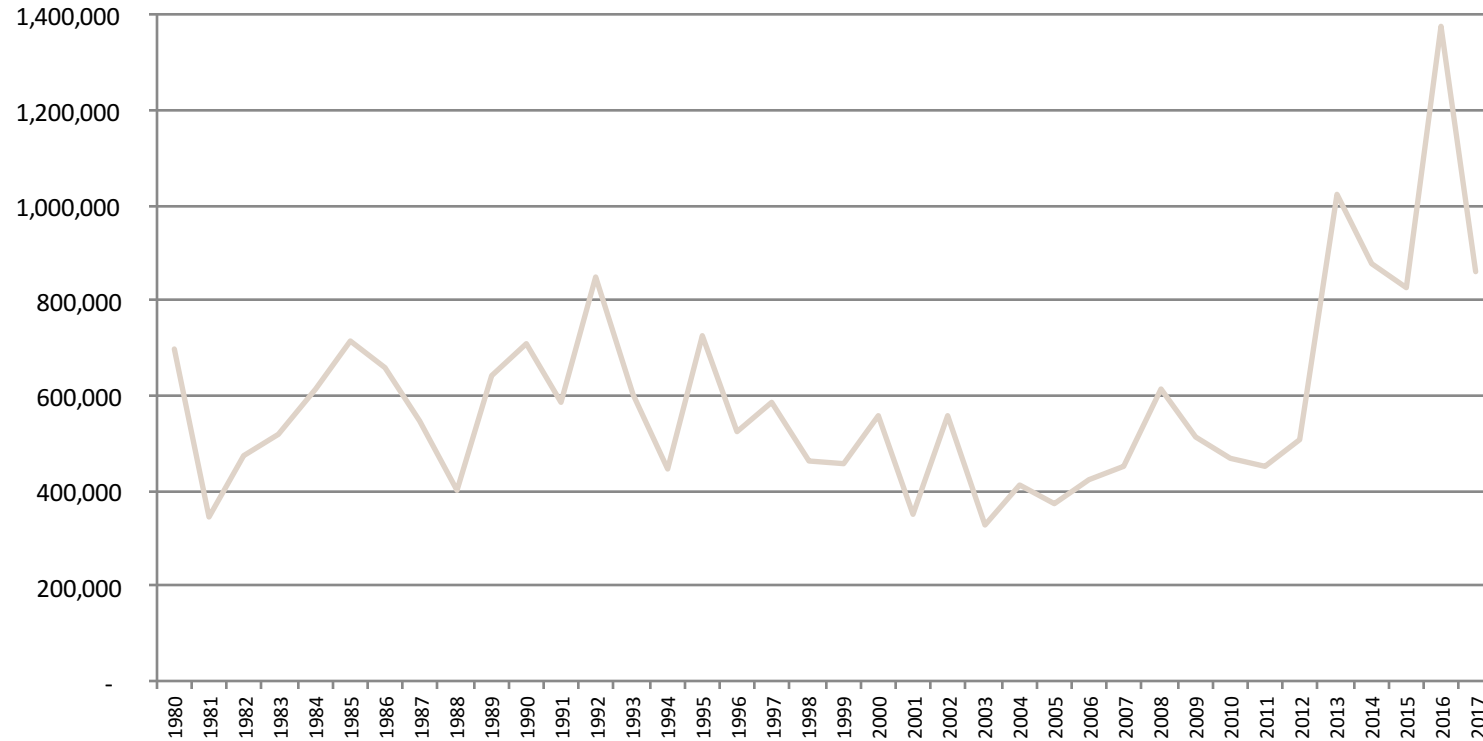
U.S. Peanut Yields (pounds/harvested acre)



Year	2001	2017	% Change
Yields(pounds/harvested acre)	3,029	4,066	34.2%

Source: NASS, USDA

Peanut Exports(1,000 pounds)

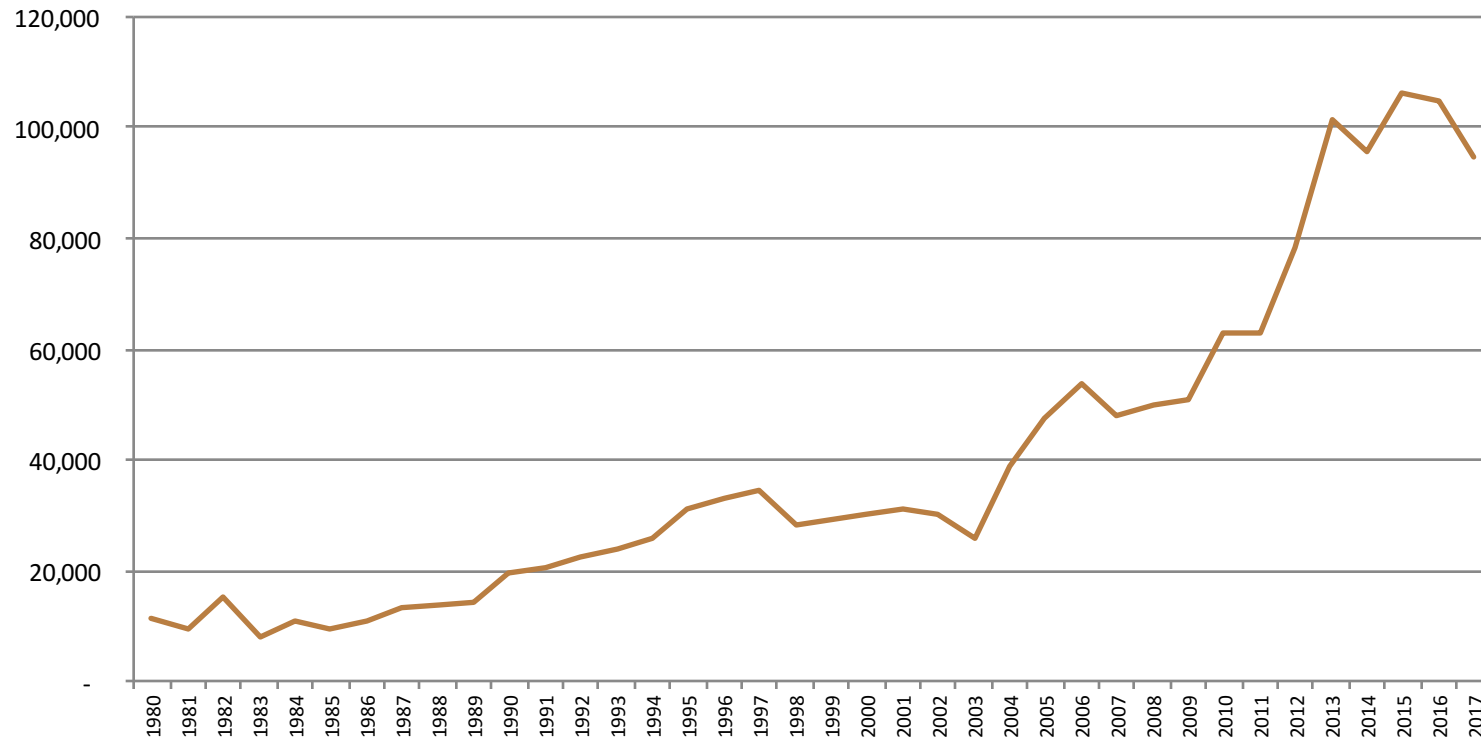


Jan-Nov	2001	2017	% Change
Peanut Exports(1,000 pounds)	284,185.0	780,145.6	174.5%

Source: Foreign Agricultural Service, USDA

Peanut exports in 2017 are from Jan – Nov.

Peanut Butter Exports(1,000 pounds)



Jan-Nov	2001	2017	% Change
Peanut Butter Exports(1,000 pounds)	26,612	86,084	223.5

Source: Foreign Agricultural Service, USDA

Peanut butter exports in 2017 are from Jan – Nov.

Thank You
for Your Attention.



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