FRUIT INVENTORY SURVEY 2019 CROP

OMB No. 0535-0039 Approval Expires: Project Code: 491 QID: SMetaKey:



United States
Department of
Agriculture



NATIONAL AGRICULTURAL STATISTICS SERVICE



USDA/NASS - Michigan

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Please make corrections to name, address and ZIP Code, if necessary

Michigan's fruit industry needs updated information for planning, marketing, and production forecasting.

(MASTER)

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response is **voluntary.**

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0039. The time required to complete this information collection is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

REPORT FOR ALL LAND YOU OPERATED OR MANAGED IN 2019 Include land rented or leased from others, but exclude land rented or leased to someone else.

1.	Rep	ort the acres used to produce the following crops in 2019 ?	_	ACRES
	a.	Apples		
	b.	Tart Cherries.		
	c.	Sweet Cherries		
	d.	Peaches		
	e.	Blueberries		
	f.	Nectarines		
	g.	Pears		
	h.	Plums		
	i.	Blackberries		
	j.	Raspberries		
	k.	Strawberries		
	l.	Cranberries		
	m.	Grapes		
	n.	Hops		
	о.	Saskatoons		
	p.	Other (please list:)		
1.	Did	at least one of the above listed crops have acreage?		
		Yes [Continue]		
l		No [Go to REPORT IF NOT GROWING FRUIT IN 2019 on page XX]		

INSTRUCTIONS

Please report only for acreage of fruit you operate: **Include** land rented from others. **Exclude** land rented to others.

If you participated in a previous Fruit Inventory, you will find enclosed a printout of the blocks you reported previously. Space has been left on these printouts for you to update the information. Check all "other" varieties on the block record and update them. Your updated copy of the previous printout should be returned with this questionnaire in which you should report on new blocks acquired or planted since previously reported. You may use the printout as a reference only and list all of your blocks in questionnaire. All of your fruit blocks must be accounted for between the updated printout and the questionnaire.

If you did not receive a printout from the previous survey, complete a line in the questionnaire for each block in your operation. Use the name or number that you use to identify each block. Each block should have its own distinctive name or number. List the county, township, and section (if known) where the block is located. Include all bearing and non-bearing blocks. **Exclude** neglected blocks. Enter the appropriate variety and rootstock codes on the lines and complete the remaining cells for each variety in the block. Round acreage to the nearest tenth of an acre. **See examples below.**

Example for Apples

Use code if given. If not write in variety name.

Block (Name of number)	County (Name)	Township (Name)	Variety (Code or name)	Rootstock	Year Planted	Trees (Number)	Acres	Spacing
Home Farm	Kent	Alpine	023	6	2012	2400	5•0	6 x 15
Jones Place	Kent	Alpine	Red Delicious	5	2013	530	4•0	16 x 20
Jones Place	Kent	Alpine	012	5	2013	125	1•0	16 x 20

Example for Cherries

Use code if given. If not write in variety name.

Block (Name or number)	County (Name)	Township (Name)	Section	Variety (Code or name)	Rootstock	Year nlanted	Trees (Number)	Acres	Spacing
Home	Leelanau	Leland		Ulster	2	1994	2,400	22•0	20 x 20
Home	Leelanau	Leland		163	2	1991	600	6•0	20 x 22
North Forty	Leelanau	Bingham		111	1	2005	660	5•5	18 x 20

Apples

Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code
Blondee	075	Fujiearly season	076	Honeycrisp	065	McIntosh	024	Rome	030
Braeburn	035	Fujimain season	016	Idared	019	Northern Spy	026	Sweetango	029
Cameo	052	Gala	017	Jonagold	020	Paulared	027	Winesap	032
Cortland	011	Ginger Gold	042	Jonamac	046	Pink Lady	078	Zestar	073
Empire	015	Golden Delicious	012	Jonathan	023	Red Delicious	014	Other (specify)	

Rootstocks

Rootstock	Code	Rootstock	Code	Rootstock	Code
Seedling	1	M26	5	Bud 9	10
MM111	2	Mark	6	Geneva 30	11
MM106	3	M9 & M9 clones	7	Geneva 16	12
M7 (VII)	4	Bud 118	8	Other (specify)	

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing
							_	 -
							•	37
							•	
							_	
							_	
							_	
							_	***
							_	
							_	
							_	
							_	
							_	477
							_	
							_	
							_	••

			5					
Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing
							_	
							_	
							_	
							_	
							_	
							•	
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							_	

Cherries

Tart Cherries	
Variety	Code
Montmorency	111
Galaxy Balaton	112
Balaton	113
Other (specify)	

Sweet Cherries									
Light		Dark							
Variety	Code	Variety	Code	Variety	Code				
Emperor Francis	161	Attika	184	Nelson	168				
Gold	162	Blackgold	188	Regina	186				
Napoleon	163	Cavalier	175	Sam	169				
Ranier	164	Hedelfingen	167	Schmidt	170				
Other (specify)		Kristen	179	Ulster	171				

Mahaleb = 1	Mazzard = 2	MxM 2 = 3	MxM 60 = 4	Gisela 5 = 5	Gisela $6 = 6$	Gisela 12=7	
111dildico 1	iiiazzaia =	1111111 = 0	1111111 00 1	Gibera 5	Gibeia 0 0	Gibera 12 /	ı

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Rootstock Code	Year planted	Trees (Number)	Acres	Spacing

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing
							_	
							-	
							•	47

					-	
					_	
					_	
					_	••
					_	37
					_	•
					_	
					_	•••
					_	•••
					_	47
					_	
					_	••
					_	
					_	••
					_	77
					_	
					_	
					_	
	1	1	1		1	

Peaches

	Fresh Market										
Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code
Allstar	456	Earlystar	481	Newhaven	421	PF – 15A	461	Redhaven	422	Arkansas-9	441
Autumnstar	479	Fayette	429	PF - 1	445	PF – 17	442	Redkist	434	Baby Gold - 5	411
Bellaire	426	Garnet Beauty	415	PF – 5B	446	PF – 19A	463	Redskin	423	Baby Gold – 7	466
Blazingstar	454	Glohaven	416	PF – 7	477	PF20 – 007	464	Redstar	459	Catherina	473
Blushingstar	453	Glowingstar	457	PF – 8-Ball	478	PF – 23	444	Risingstar	458	Venture	469
Brightstar	482	Harbrite	417	PF – 9A-007	480	PF24 – 007	465	Saturn	474	Vinegold	471
Canadian Harmony	412	John Boy	462	PF – 12A	443	PF – 24C	476	Starfire	452	Virgil	470
Coralstar	455	Loring	420	PF – Lucky 13	475	PF – 25	460	Summer Serenade	467		
Cresthaven	414			PF 14NJ	447	PF – 27A	448	Other (specify)		Other (specify)	

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Trees (Number)	Acres	Spacing
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X
						•	X

Blueberries

Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code			
Aurora	242	Bonus	235	Duke	216	Northland	227	Toro	238			
Berkeley	211	Brigitta	232	Earliblue	226	Patriot	219	Weymouth	230			
Bluecrop	212	Burlington	223	Elliott	217	Pemberton	228	-				
Bluegold	234	Collins	224	Jersey	218	Rancocas	220					
Bluejay	213	Concord	233	Legacy	243	Rubel	221					
Blueray	215	Coville	225	Liberty	241	Spartan	222					
Bluetta	214	Draper	239	Nelson	231	Stanley	229	Other (specify)				

Irrigation Codes	
Non-irrigated	2
Drip (trickle)	3
Subterranean	4
Traveling gun	5
Overhead sprinkler	6

Bluetta 214	l Draper	239 Nelson	231 Sta	nley 229	Other (specify)				
Block (Name or number)	County (Name)	Township (Name)		Variety (Code or name)	Irrigation code	Year planted	Bushes (Number)	Acres	Spacing
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X
								•	X

Nectarines, Pears, and Plums

Nectarines		Pears				Plums			
Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code
Eastern Glo	866	Asians	611	Harrow Sweet	621	Blufre	511	NY 9	527
Fantasia	861	Bartlett	612	Red Sensation	617	Castleton	525	Ozark Premier	515
June Glo	863	Bosc	613	Spartlett	618	Damson	512	Shiro	516
Redgold	864	Clapp's	614			Italian	513	Stanley	517
Summer Beauty	868	D'Anjou	615			Methley	514	Toka/Bubble Gum	530
Other (specify)		Harrow Delight	620	Other (specify)		NY 6	526	Other (specify)	

Fruit type	Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Trees (Number)	Acres	Spacing
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X

Brambles (Blackberries & Raspberries)

Blackberries			Raspberries						
Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code
Chester	712	Anne	740	Chillowack	721	Josephine	718	Polana	727
Illini Hardy	736	Autumn Bliss	733	Encore	724	K-81-6	716	Prelude	734
Mac Black	714	Autumn Britten	742	Heritage	722	Killarney	726	Reveille	738
Natchez	741	Boyne	731	Himbo-top	725	Latham	723	Royalty	730
Thornfree	715	Bristol	717	Jaclyn	732	Lauren	744	Titan	728
Triple Crown	713	Canby	720	Jewel	719	Nova	739		
Other (specify)		Caroline	743	Joan J	737	Octavia	729	Other (specify)	

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Acres
					•
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Strawberries & Cranberries

		Strawberri	es		
Variety	Code	Variety	Code	Variety	Code
AC Wendy	211	Darselect	223	Mesabi	224
Albion	213	Delmarvel	216	Mira	222
Allstar	201	Earliglow	204	Northeaster	218
Annapolis	202	Honeoye	207	Seascape	206
Brunswick	205	Jewel	208	Sparkle	215
Cabot	217	Kent	209	Winona	221
Cavendish	203	Lateglow	210	Other (specify)	

Cranberries	
Variety	Code
Bean Lear	811
Grygleski	819
La Monyon	817
Pilgrim	814
Searles	813
Stevens	815
Other (specify)	

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Acres
					•
					•
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Grapes

America	American			Hybi	rids			Vinifera			
Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code	Variety	Code
Catawba	320	Aurore	315	De Chaunac	322	Regent	339	Cabernet Franc	338	Pinot Gris	334
Concord	312	Baco Noir	316	Foch	323	Seyval	326	Cabernet Sauvignon	340	Pinot Meniuer	337
Delaware	313	Cayuga White	311	Fredonia	331	Traminette	335	Chardonnay	319	Pinot Noir	325
Niagara	314	Chambourcin	317	Frontenac	346	Vidal Blanc	327	Gamay Noir	341	Riesling	329
Other (specify)		Chancellor	318	Himrod	332	Vignoles	328	Gewurztraminer	324	Sauvignon Blanc	345
		Chardonel	333	Marquette	353			Gruner Veltliner	358	Syrah	343
		Chelois	321	Marquis	344	Other (specify)		Lemberger	330	Viognier	354
								Merlot	336	Zweigelt	359
								Pinot Blanc	342	Other (specify)	

Principal Use						
Juice = 1	Wine = 2	Table (Fresh) = 3				

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Principal use	Year planted	Vines (Number)	Acres	Spacing
							•	X
							•	X
							•	X
							•	X
							•	Х
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X
							•	X

Block (Name or number)	County (Name)	Township (Name)	Section	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing
								_	
								•	
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Saskatoon Berries

		Saskatoon			
Variety	Code	Variety	Code	Variety	Code
Martin					
Northline					
Thiessen					
Other (Specity)					

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Acres
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					•
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Hops

		Hops		-	
Variety	Code	Variety	Code	Variety	Code
Cascade		C/T/Z		Sorachi Ace	
Centennial		Michigan Copper		Summit	
Chinook		Mosaic		US Magnum	
Citra		Nugget		Willamette	
Crystal		Simcoe		Zeus	
				Other (specify)	

Block (Name or number)	County (Name)	Township (Name)	Variety (Code or name)	Year planted	Acres
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Fruit Planting and Removal Intentions for 2020 – 2024

Do you plan to make any changes to your fruit acreage in the next five						
years?	Yes	Continue	No	Go to next page	Unknown	Go to next page
	_					
Please record the acres of each type of fruit and variety you plan to remove						lant but do not know
the variety, you may leave that column blank. If you are unsure exactly wl	nich year y	you will plant o	or remove	acreage, please estimat	e.	

Fruit Species	Variety	Year	Acres to be planted	Acres to be removed
		2020		
		2020		
		2020		
		2020		
		2020		
		2020		
		2021		
		2021		
		2021		
		2021		
		2021		
		2022 – 2024		
		2022 – 2024		
		2022 – 2024		
		2022 – 2024		

Fruit Species	Variety	Year	Acres to be planted	Acres to be removed
		2020		
		2020		
		2020		
		2020		
		2020		
		2020		
		2021		
		2021		
		2021		
		2021		
		2021		
		2022 – 2024		
		2022 – 2024		
		2022 – 2024		
		2022 – 2024		

Op	eration Labor in 2019			
1.	Did this operation have any paid workers, including Yes [Continue] No [Go to Item XX]	paid family members in 2019?		
2.	Record the number of workers in each category beloved required by IRS. (If an employee did both agricultut packing, retailing, or office work, record in the category time was spent.)	ral and non-agricultural work, sı	ıch as	
		Permanent	Seasonal	
		(121 days or more per year)	(120 days or less per year) –	
3.	Of the Act Project Workers Wister Win Alters 1 above, (Migrant workers are seasonal farm workers who had			
	unable to return to their permanent residence the sa			
4.	Did you have a labor shortage in 2019 ?	203	204	
	Yes Enter Code I and continue NH2[A:MeP & Code S and go to Item 7]			
		days or more per year) would yo	206 II have	-
	a. How many additional permanent workers (121 characteristics) hired had they been available? CONTRACT (Non W-2) WORKERS	auys of more per year) would yo		
	b. How many additional seasonal workers (120 da	vsgor less per vear) would vou h	aye hired	4
	had they been available? rull time (30 hours or more per week)	y 1	NUMBER	
		211	212	
	Part-time (29 hours or less per week)			
5.	What were the total acres unharvested in 2019 due to	o ₂ labor shortage?	214 ACRES	
6.	In what Greath and the se additional three additions are sense and the second and the second are sense and the second are sense as the second are	tional workers?		
	January February March April May June	July August September October November December		

7.	Which sources did you use to hire new or more employees in 2019 ?
	Local Labor Force Recruiting / Want Ads
	Michigan Works! Ag Employment Specialists
	☐ Drive Up Labor
	H-2A Temporary Agricultural, Direct Hire
	H-2A Temporary Agricultural, Contractor
	Other (specify)

Bl	ueberry Production Practices in 2019		
1.	Was blueberry acreage reported on page 2 Item e? Yes [Continue] No [Go to Item XX]		
2.	Did you grow blueberries for fresh market use in 2019 ?		
	Yes [Enter Code 1] No [Enter Code 3 and go to Item XX]	CODE	
	 a. What percentage of your fresh pounds, including U-pick, were 2019 blueberries harvested by? 		
	(i) hand?	PERCENT	
	(ii) machine?	PERCENT	

Gr	rape Production Practices in 2019		
1.	Was grape acreage reported on page 2 Item m?		
	Yes [Continue] No [Go to Item XX]		
2.	Did you carry crop insurance for the grape vines grown on this operation in 2019?	_	
	Yes [Enter Code 1] No [Enter Code 3]	CODE	
3.	Did you use pre-emergent herbicide for the grape vines grown on this operation in 2019 ?		
	Yes [Enter Code 1 and go to Item 4]		
	☐ No [Enter Code 3]	CODE	
	b. Did you make fall herbicide pre-emergent applications for the grape vines grown on this operation in 2019 ?	Г	
	Yes [Enter Code 1] No [Enter Code 3]	CODE	
4.	What was the main disease issue for the grape vines grown on this operation in 2019?		
	Phomopsis [Enter Code 1] Anthracnose [Enter Code 2] Black Rot [Enter Code 3] Powdery Mildew [Enter Code 4]	_	
	Downey Mildew [Enter Code 5] Other [Enter Code 6 and specify]	CODE	
5.	What was the main weed issue for the grape vines grown on this operation in 2019 ? Marestail [Enter Code 1] Thistle [Enter Code 2] Poison Ivy [Enter Code 3] Blind Weed [Enter Code 4] Dog Bane [Enter Code 5]		
	Other [Enter Code 6 and specify]	CODE	
6.	Did you regularly scout for pests on the grape vines grown on this operation in 2019 ?		
	Yes [Enter Code 1]		
	No [Enter Code 3 and go to Item 7]	CODE	
	 c. How often did you scout for pests on the grape vines grown on this operation in 2019? Once a week [<i>Enter Code 1</i>] Twice a week [<i>Enter Code 2</i>] 	Γ	
	Other [Enter Code 3 and specify]	CODE	
7.	Did you trap insects to determine when to spray on the grape vines grown on this operation in 2019 ?	Г	
	Yes [Enter Code 1] No [Enter Code 3]	CODE	
8.	Which type of sprayers did you use on the grape vines grown on this operation in 2019?		
	Backpack [Enter Code 1]		
	Air blast [Enter Code 2] Power sprayer [Enter Code 3]		
	Other [Enter Code 4 and specify]	CODE	
9.	What was the main insect issue for the grape vines grown on this operation in 2019 ?		
	Spotted Wing Drosophilia (SWD) [Enter Code 1] Brown Marmorated Stink Bug (BMSB) [Enter Code 2] Multicolored Asian Lady Beetle (MALB) [Enter Code 3] Phyllogena [Enter Code 4]		
	Phylloxera [<i>Enter Code 4</i>] Grape Berry Moth [<i>Enter Code 5</i>]	Γ	
	Other [Enter Code 6 and specify]	CODE	

REPORT IF NOT GROWING FRUIT IN 2019

1.	Indicate the reason no fruit was grown on this operation in 2019	
	Farm Sold [Enter Code 1 and go to Item 11]	
	Retired from farming [Enter Code 2 and go to Item 11]	
	Entire farm rented to others [Enter Code 3 and go to Item 11]	
	Farming, but not growing grapes [Enter Code 4 and go to Item 11] Never farmed [Enter Code 5 and go to Conclusion]	COD
	Never lamed [Enter Code 5 and go to Conclusion]	<u> </u>
2.	Will a new operation grow grapes in the land you operated in 2019?	
	Yes [Enter Code 1]	
	Yes [Enter Code 1] No [Enter Code 3 and go to Conclusion]	ODE

3. To avoid duplication, please provide the new grape producer's name, farm name, and partners.

Please record any	COMMENTS on c	ron quality	arowing season	difficulties et	r
i lease record arry	/ COMMENTS OF C	nop quanty,	growing season,	unneunes, et	·

CONCLUSION

Survey Results: The report will be available at the following website: www.nass.usda.gov/mi.

	9911	9910	MM	DD	YY
Respondent Name:	Phone:	Date:			

This completes the survey. Thank you for your help.

Response	Respond	dent	Mode		Enum.	Eval.	Change		Office Us	e for POI	D
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est 6-Inac – Est 7-Off Hold – Est	1 1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-Mail 2-Tel 3-Face-to-Face 4-CATI 5-Web 6-e-mail 7-Fax 8-CAPI 19-Other	9903	9998	9900	9985	9989	 Option 9908	9906	9916