FRUIT INVENTORY SURVEY
2020 CROP

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United States Department of Agriculture

NATIONAL AGRICULTURAL STATISTICS SERVICE

(MASTER)

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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.

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.**

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REPORT FOR ALL LAND YOU OPERATED OR MANAGED IN 2020
Include land rented or leased from others, but exclude land rented or leased to someone else.

1. Report the acres used to produce the following crops in **2020**?

		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	
o.	Saskatoons	
p.	Other (please list:_____)	

1. Did at least one of the above listed crops have acreage?

☐ Yes [*Continue]*
☐ No [*Go to REPORT IF NOT GROWING FRUIT IN 2020 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)	Section	Variety (Code or name)	Rootstock code	Year Planted	Trees (Number)	Acres	Spacing
Home Farm	**Kent**	**Alpine**	**1**	**023**	**6**	**2012**	**2400**	**5•0**	**6 x 15**
Jones Place	**Kent**	**Alpine**	**3**	**Red Delicious**	**5**	**2013**	**530**	**4•0**	**16 x 20**
Jones Place	**Kent**	**Alpine**	**3**	**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 planted	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	Fuji--early season	076	Honeycrisp	065	McIntosh	024	Rome	030
Braeburn	035	Fuji--main 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)	Section	Variety (Code or name)	Rootstock code	Year planted	Trees (Number)	Acres	Spacing

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

Cherries

Tart Cherries	
Variety	Code
Montmorency	111
Galaxy	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

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

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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								☁	☔

Peaches

Fresh Market										Processing	
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)	Section	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
							●	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

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

Strawberries & Cranberries

Strawberries					
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)	Section	Variety (Code or name)	Year planted	Acres
						•
						•
						•
						•
						•
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Grapes

American		Hybrids						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)	Section	Variety (Code or name)	Principal use	Year planted	Vines (Number)	Acres	Spacing
								•	x
								•	x
								•	x
								•	x
								•	x
								•	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

Hops and saskatoons tables here . . . .

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 and to plant over the next five years. If you have intentions to remove or plant but do not know the variety, you may leave that column blank. If you are unsure exactly which year you will plant or remove acreage, please estimate.

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		

Operation Labor in 2020

1. Did this operation have any paid workers, including paid family members in 2020?

   ☐ Yes [*Continue]*
   ☐ No [*Go to Item XX]*

2. Record the number of workers in each category below. W-2 is the Wage and Tax Statement required by IRS. (If an employee did both agricultural and non-agricultural work, such as packing, retailing, or office work, record in the category in which the majority of the worker's time was spent.)

	Permanent *(121 days or more per year)*	Seasonal *(120 days or less per year)*	
AGRICULTURAL W-2 WORKERS			
Full time (30 hours or more per week)	201	202	**NUMBER**
Part-time (29 hours or less per week)	203	204	
H2-A WORKERS			
Full time (30 hours or more per week)	205	206	**NUMBER**
CONTRACT (Non W-2) WORKERS			
Full time (30 hours or more per week)	209	210	**NUMBER**
Part-time (29 hours or less per week)	211	212	
TOTAL PAID WORKERS	213	214	**ACRES**

3. Of the total paid workers listed in question 2 above, (*Migrant workers are seasonal farm workers who have to travel to do farm work and are unable to return to their permanent residence the same day.*) If none, go to question 5.

4. Did you have a labor shortage in **2020**?

   ☐ Yes *[Enter Code 1 and continue]*
   ☐ No *[Enter Code 3 and go to Item 7]*

   a. How many additional permanent workers (121 days or more per year) would you have hired had they been available?

   b. How many additional seasonal workers (120 days or less per year) would you have hired had they been available?

5. What were the total acres unharvested in **2020** due to labor shortage?

6. In what months during **2020** did you need these additional 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 **2020**?

- ☐ 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)

Blueberry Production Practices in 2020

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 **2020**?

   ☐ 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 **2020** blueberries harvested by?

      (i) hand?..... **PERCENT** ☐

      (ii) machine?..... **PERCENT** ☐

Grape Production Practices in 2020

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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ Once a week [*Enter Code 1]*
   - ☐ Twice a week [*Enter Code 2]*
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ 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 **2020**?
   - ☐ Spotted Wing Drosophilia (SWD) [*Enter Code 1]*
   - ☐ Brown Marmorated Stink Bug (BMSB) [*Enter Code 2]*
   - ☐ Multicolored Asian Lady Beetle (MALB) [*Enter Code 3]*
   - ☐ Phylloxera [*Enter Code 4]*
   - ☐ Grape Berry Moth [*Enter Code 5]*
   - ☐ Other [*Enter Code 6 and specify*_____*]*

   CODE ☐

REPORT IF NOT GROWING FRUIT IN 2020

1. Indicate the reason no fruit was grown on this operation in **2020**

- ☐ 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*]

CODE ☐

2. Will a new operation grow grapes in the land you operated in **2020?**

- ☐ Yes [*Enter Code 1]*
- ☐ No [*Enter Code 3 and go to Conclusion]*

CODE ☐

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

Please record any **COMMENTS** on crop quality, growing season, difficulties, etc.,.

CONCLUSION

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

Email: _____ Fax: _____

Respondent Name: _____	9911 **Phone:** _____	9910 MM DD YY **Date:** __ __ __ __ __ __

This completes the survey. Thank you for your help.

Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID			
1-Comp 2-R 3-Inac 4-Office Hold 5-R – Est 6-Inac – Est 7-Off Hold – Est	9901	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 __ __ __ - __ __ __ - __ __ __			
									Optional Use			
									9907	9908	9906	9916
S/E Name												