

Annex (1)

Research on Agro Biodiversity in Jenin Governorate

Inventory of Agro food products in Jenin Governorate

Note: Highlighted pink are endangered varieties/ crops/ products/ high-risk potential of disappearance from Jenin.

** Or highlighted green are products that are most related to the agricultural and gastronomic traditions of the Jenin.

Category	Common Name	Scientific Name	Arabic Name الاسم العربي	Main Production Areas in Jenin 402391130	Varieties/ Cultivars/types and Cultivation method
Vegetables	1. Tomatoes	<i>Lycopersicon esculentum</i>	بندورة	1700 dunums mainly Jalameh, Arraneh, Deir Abu Daieef	20-30 vars. All red-colored Some cherry tomato varieties Open Field (limited) and greenhouses type varieties ** Native varieties are named after villages like Anzza, which has corrugated fruits with high solid content, Beit Oula variety and Maramandeya.
	2. Potato	<i>Solanum tuberosum</i>	بطاطا	2700 dunums Jenin city, Burqin, Lekkier, Arrabeh, Qabatia and Kafradan	Open field irrigated. Sponta and synergy for regular varieties and there are 4 varieties for processing potatoes
	3. Pepper 4. Chilli	<i>Capsicum fruitscence</i> <i>Capsicum annum</i>	فلفل وفليفة	Many areas	Open field and in greenhouses, it is irrigated
	5. Eggplant	<i>Solanum melongena</i>	الباذنجان	1300 dunum in Burqin, Kafr Dan	Irrigated in open field and plastic houses.
	6. Cucumber	<i>Cucumis sativus</i>	خيار	5600 dunum mainly in Kafr Dan, Jenin city, Yamoun ...	Regular greenhouse varieties (Many) Baby cucumber for pickling mainly (2 main varieties). Entered 6 years ago. Open field varieties used for pickling
	7. Squash	<i>Cucurbita pepo</i>	الكوسا	550 dunum in Burqin, Kafr Dan, Yamoun	Open field, protected with plastic tunnels, irrigated

	8. Pumpkin	<i>Cucurbita moschata</i> or <i>C. maxima</i>	الفرع	2-3 dunums only in Jalameh and randomly in other ares	Local variety, not widespread. Irrigated
	9. Green Pumpkin	<i>Lagenaria siceraria??</i>	اليقطين	270 dunum irrigated mainly Jalameh, 600 rain-fed in different areas	Famous in Jalameh it is grown in plastic houses even during winter, in other areas grown as summer crop in open field. One local variety only.
	10. Watermelon	<i>Citrullus Lanatus</i>	بطيخ	Limited area (less than 100 dunums) in Burqin, Kafr Dan mainly	Jadoa'l local variety (small black seeds) and Malali (large white seeds). A third variety is Hasan Assad 30- 40 years ago Used to be crop number 1, but now very limited area due to lack of competitiveness with Israeli products in terms of prices. The model crop of Jenin is watermelon.
	11. Cantaloupe Muskmelon	<i>Cucumis melo</i>	الشمام	2000 dunums in Deir Ghazala, Arraneh mainly irrigated and sometimes rain-fed	Local variety called (02) and another one called Ein Door, this is indigenous to Jenin) and many new hybrid varieties
	12. "Faqous" Arermenian Cucumber	<i>Cucumis melo var. flexuosus</i>	فقوس	Maythalon, Sanor, Beer Basha Arrabeh	3 local varieties: Balouti, green balouti, and Sahouri. Grown mainly as rain-fed summer crop. Recently introduced as greenhouse crop.
	13. Garlic	<i>Allium sativum L.</i>	الثوم	230 dunums mainly in Maythaloun	Very limited area.
	14. Onion	<i>Allium cepa</i>	بصل	4,000 dunums in Deir Abu Daif, Jalboun, Deir Ghazala Eastern Region	Egyptian onion variety mainly. Jenin is well known for Onion production that is stored for the use the whole year round.
	15. Cabbage	<i>Brassica oleracea (capitata)</i>	الملفوف	2000 dunum Burqeen, Kafr Dan, Qabatia and Jenin city	Irrigated grown year round more as winter crop
	16. Cauliflower	<i>Brassica oleracea</i>	القرنبيط	2500 dunums in Burqin, Kafr Dan, Qabatia and Jenin city	Same as cabbage, Cooked or used in pickles
	17. Fennel	<i>Foeniculum vulgare Mill</i>	الشومر	650 dunums in Burqin, Jenin city	Bulbs consumed fresh not used in cooking

	18. Beetroot	<i>Beta vulgaris vulgaris</i>	جذور الشمندر	80-100 dunums in Burqin, Jenin city	Used in pickles, salade and fresh Juice
	19. Turnip or white turnip	<i>Brassica rapa (rapifera)</i>	اللفت	300 dunums in Jenin city, Yamoon Kafra Dan	For pickling purposes rarely cooked
	20. Molokhia	<i>Corchorus olitorius</i>	الملوخية	200 dunums Burqin, Kafr Dan, Jenin city	Summer irrigated crop, Stored in Deep freeze or dried
	21. Okra	<i>Abelmoschus esculentus</i>	البامية	400 dunums mainly in Araba, Bir Al-Basha and Qabatia	Summer crop, red pod varieties and green pod varieties both are local. Stored in deep freeze or as dry pods.
	22. Lettuce	<i>Lactuca sativa</i>	الخس	Jenin city/ Marj and many other places	Grown year round, irrigated. Summer varieties and winter varieties
	23. Kohlrabi	<i>Brassica oleracea (gongylodes)</i>	كلورابي	Very limited Jenin city, Burqin,	Consumed fresh
	24. Radish	<i>Raphanus raphanistrum</i>	الفجل	Different areas	Different non local varieties
	25. Strawberry	<i>Fragaria fruticosa</i>	الفراولة	40 dunums Jenin city, Qabatia, , Kafr Dan, Jalameh	Introduced to Jenin in the last 6-8 years. Grown in greenhouses mainly using high tech
Fruit trees	26. Olives	<i>Daccus Olea</i>	الزيتون*	125,000 dunums spread along Jenin area	Most common Napali baladi variety rain-fed mainly. K18 variety needs irrigation.
	27. Almonds	<i>Prunus amygdalus</i>	اللوز	1300 dunums of new soft shell vars and 300 dunums of hard shell vars AlYamoun, Silat al-Harithiya, Zaboba, Taybeh, Anin, Seer, Zababdeh, and Maythalon	Sof shell: Om Elfahem Hard Shell: Jellati and Fransawi
	28. Grapes	<i>Vitis vinifera</i>	العنب	6,000 dunums mainly in Qabatia, and less in Mesallia, Zababdeh, Maythalon	Beiruti is the most common variety then, Zaini, and Dabouqi Grape leaves are main purpose of grape cultivation
	29. Greengage Sour Cherries/ Plums	<i>Prunus domestica</i>	الكرز الحمض	Kafr Ra'l, 120 dunums of plums and 900 dunums of Sour cherry	Sour cherry greenn and red varieties. Santa Rosa Wixxen Ogden

	30. Apricot	<i>Prunus armeniaca</i>	المشمش	180 dunums Kafr Raa'i, Silat al-Harithiya, El fondoqomeya	Traditional native variety with yellowish while color called Hamawi or Mysticawi And the yellow –colored fruit variety calld Ra'anana
	31. Figs	<i>Ficus carica</i>	تین	135 dunums in Fandaqumiya, Jabaa And scattered trees in home gardens and some orchards in most of the villages	Local varieties: Eh mari, Hemadi, Sebaa'l, Khortomani
	32. Lemon	<i>Citrus limon</i>	ليمون	80 dunus in Broqin, Jenin city, Kafr Dan.	Produce fruits along the whole year
	33. Orange	<i>Citrus sinensis</i>	برتقال شموطي	30 dunums in Broqin, Jenin city, Kafr Dan	Mandarine, an Abo Sorra
	34. Apple	<i>Malus domestica</i> <i>M. Pumila</i>	تفاح	35 dunums in Jenin City and Deir Ghazaleh	Anna variety.
	35. Pecan	<i>Carya illinoensis</i>	بيكان	40 dunums Arrabeh, and marj Ben Amer, as well as scattered trees	two American Varieties
	36. Cactus	<i>Opuntia ficus-indica</i>	الصبر	470 dunums in faquaa Arbunh Al Jalama Jalboun and scattered trees in different localities	Local variety
Cereals	37. Wheat	<i>Triticum aestivum</i>	القمح	60000 dunums of which 10,000 dunums for freekeh	** Local varieties: Kahtat, Heteya Yellow, Heteya White, Heteya Black Nawrasi , kahla, Nab Eljamal New lines: #2, S9, Amber, Om Alrabeeha, Howrani, Ammar, Om Qays, and Mike
	38. Barley	<i>Hordeum vulgare</i>		9,000 dunums	** Baladi (local variety), Nabawi line is very rare
Legumes	39. Broad Bean	<i>Vicia faba</i>	فول	200-400 dunums in Jalboun(Eastern Region) And on home garden	Baladi and Cypruss varieties
	40. Lentils	<i>Lens</i>	عدس	Maythalon, Sanor , Qabatia	** Baladi

		<i>culinaris or Lens esculenta</i>			
	41. Beans (Common bean)	<i>Phaseolus vulgaris</i>	الفاصولياء	In different areas where water is available, mainly in greenhouses	Green beans varieties ** There is a local variety of dry bean grown in Arrabeh village not very common but with high quality, high price
	42. Cowpea (black-eyed bean)	<i>Vigna unguiculata</i>	اللوبياء	110 dunums in different areas	Local varieties and some long pod varieties
	43. Peas	<i>Pisum sativum</i>	البازيلاء	160-200 dunum in Qabatia Jalameh	Recently entered to green houses and widely spread in home gardens
	44. chickpeas	<i>Cicer arietinum</i>	حمص	1800 dunums Jalboun, Deir Ghazala Maythalon, Sanoor	**Local varieties Mexican variety Hadas: mainly used green
Oil plants and spices	45. ** Sesame	<i>Sesamum indicum</i>	سمسم	3,000 dunums 75% in Qabatia, while remaining is grown in, Maythalon and Sanoor.	Local variety
	Safflower	<i>Carthamus tinctorius</i>	العصفر	Beit Qad village	Only 4 dunums for seeds as bird feed, and on smaller scale evel for collecting petals/ dried and used is spices/ rice coloring
	47. ** Black caraway	<i>Nigella sativa</i>	حبة البركة (القزح)	300 -200 dunums in Zababdeh, Raba	Only local variety
	48. ** Anise	<i>Pimpinella anisum L.</i>	يانسون	450 dunums	Local variety
	49. Fenugreek	<i>Trigonella foenum-graecum L.</i>	الحلبة	Very limited areas on home garden level	Local variety
	50. ** Cumin	<i>Cuminum cyminum</i>	الكمون	Very limited used to be wider	Local variety
Fresh Herbs	51. Parsley	<i>Petroselinum crispum Mill.</i>	بقونس	Widespread	Local variety
	52. Mint	<i>Mentha piperita L.</i>	نعنع	75 dunums Widespread	Regular Mint

				Jadeda and in arrabeh it is grown for extracting mint oil	
	53. Oregano	<i>Origanum syriacum</i>	الزعتر	300 dunums irrigated Jalameh and Arraneh	Broad leaf varieties and local varieties
	54. Sage	<i>Salvia officinalis L.</i>	الميرمية		Local variety
	55. Spinach	<i>Spinacia oleracea</i>	السبانخ	Deir Abu Daif	Local varieties for winter production only And American: fits early production
	56. Rocket	<i>Eruca sativa</i>	الجرجير	Limited areas	Local variety
	57. Swiss Chard	<i>Beta vulgaris subsp. cicla</i>	السلق	Limited areas	Local variety,
	58. Chamomile	<i>Matricaria chamomilla</i>	بابونج	Limited areas	Local
Honey Bees	59. Honey bees	<i>Apis mellifera</i>	نحل العسل	2500-3000 hives mainly in Kafr Ra'i, Yamoun, and almost in every locality in Jenin	Produce Honey mainly, some pollen and royal Jelly
Processed food	60. Dry tomatoes		البندورة المجففة	Few women cooperatives and groups	Better from Local traditional rain-fed varieties, however greenhouse varieties can be used also.
	61. Coscos (Maftool)		المفتول	Widespread, women groups and cooperatives prepare it on commercial scale	Wheat flour and burgul (groats)
	62. Groats (Burgul)		البرغل	Processed by companies few women still prepare it. It is also imported	Soaked wheat dried and ground
	63. Freekeh (grilled green wheat)		الفريكة	1,000 dunum in Jenin City, Arrabeh, Deir Ghazaleh and others	Mainly from the most common variety of wheat (Amber), but better quality comes from local line (Heiti)
	64. Pumpkin Jam		مربى القرع		
	65. Strawberry Jam		مربى الفراولة		
	66. carob syrup (called rub)	<i>Carob molasses</i>	رب الخروب	Deir Ghazaleh, Anzah and others, Carob can be bought from other areas as well	

Wild plants and Mushrooms					
	67. Carob	<i>Ceratonia siliqua</i>	الخروب	Wild tree in mountaineous and hilly areas like Faqoaa Deir Ghazaleh, Jalqamoos...Moghayer	Wild Varieties
	68. Wild Mushroom	<i>Boletus edulis</i>	الفقع، الفطر البري	Different areas mainly Marj	Different types collected from the wild. Some people sell it Cow nose العجل خشم white color best quality highest price (50 NIS per kilogram). Brown color lower quality lower prices. Kalakh: a large cap mushroom
	69. ** Blume schott "Ja'adeh"	<i>Eminium spiculatum</i>	الجعدة ¹ ، السمعية، الصمعية، الدندلية	Grow wild in many areas, but not widespread	Most common wild planted that goes deep in food heritage.
	70. Sorrel	<i>Rumex acetosa</i>	الحميض		
	71. Cyclamen persicum		الزعمطوط	Hilly areas	Leaves stuffed with rice, tomatoes and meat like grape leaves
	72. Borage	<i>Borago officinalis</i>	لسان الثور	Hills and mountains	Cooked like grape leaves
	73. Gundelia	<i>Gundelia spp.</i>	العكوب	Hilly and plain areas	Collected during February- March
	74. Thyme	<i>Thymus vulgare</i>	الزعتمان (زعتنر بلاط)	Hilly areas	Rarely collected as it is cultivated in farms
	75. Mallow	<i>Malva syriaca</i>	الخبيزة	All areas especially in irrigated farming	Collected from the wild and in between vegetables and orchards, sold in the market during winter
	76. Chicory/ Dandelion green	<i>Taraxacum officinale</i>	العلك، الهندياء	All areas	Collected from the wild in Jenin, in other areas it is planted as a vegetable

¹ ليست الجعدة المعروفة في الوسط والجنوب There is another plant with same arabic name but totally different called felty germander *Teucrium polium*



	77. Fennel	<i>Foeniculum vulgare</i>	الشومر البري	Hilly areas	Seeds collected as spices and used for medicinal purposes
	78. Summer purslane (common purslane)	<i>Portulaca oleracea</i>	البقلة الفرفحينة	Irrigated farming areas	Eaten fresh in salad or cooked, popular rare dish.
	79. Mustard	<i>Sinapis arvensis</i>	الخردلة	Different areas Wheat fields mainly	Used in salad or eaten with different dishes as raw leaves
	80. Sumac	<i>Rhus</i>	السماق	Altayiba	Wild tree not very common in the plain areas.
Fiber crops	81. Louhfa	<i>Lufa</i>	اللّيف	Lufa	Body scrubber Loufa

Cultivated areas were obtained from Ministry of agriculture data for 2019/ Directorate of Jenin.

Main references for scientific names:

<http://www.thegeneralknowledge.in/2016/01/scientific-names-of-plants-trees-fruits.html>

<https://checkall.in/fruits-vegetables/>

<https://www.spicefactors.com/botanical-name/>

https://en.wikipedia.org/wiki/List_of_vegetables



Photos of some not very common Plants and products:



12 Faqous



20 Molokheya



21 Okra



42- Cowpeas



"Loof" *Arum palaestinum*



Malva syriaca



Borage



Cyclamen



Blume Schot *Eminium spiculatum*

Gundelia spp



جعاجيل الجعدة Blume Schott Special dish Known in Jenin



Maftool (couscous)



Dry Blume Schott



Maftool Salad