Vegetable Varietal Distribution in Sri Lanka – 2022







Socio Economics and Planning Centre

Department of Agriculture

Peradeniya

Message from Director SEPC….

Socio Economics and Planning Centre functions as the National Centre of Excellence in carrying out socio economic research and policy analysis in relation to the production and marketing of mandated food crops, to ensure economic and social development of the farmers as well as other stakeholders.

This report of the Centre may fulfill the lack of information on Department of Agriculture developed vegetable variety distribution in Sri Lanka. Previously SEPC has taken initiatives to publish paddy varietal distribution in Sri Lanka which is published annually in collaboration with RRDI. This report is an extension of this exercise and published as Vegetable Varietal Distribution report.

In preparation of this report, SEPC used vegetable crop cultivation extent data from Department of Census and Statistics, Crop Forecasting data, seed import data from Seed Certification Services (SCS), seed production and sales data from Seed and Planting Materials Development Centre (SPMDC), verified the varieties with Horticultural Research and Development Institute (HORDI).

I hope this report on Vegetable Variety Distribution will widely be used by scientists, students, academia and policy planners.

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1. Crop List

This volume provides the variety distribution of vegetables in Sri Lanka for the year 2022, prepared using information pertaining to (2021/22 Maha and 2022 Yala seasons) and includes cultivated extents of major varieties of the following vegetable crops.

1. Family Cruciferae
   - Raddish
2. Family Cucurbitaceae
   - Bittergourd
   - Cucumber
   - Luffa
   - Pumpkin
   - Snake gourd

3. Family Fabaceae
   - Bushita
   - Long bean
   - Pole bean
   - Winged bean

4. Family Malvaceae
   - Okra

5. Family Solanaceae
   - Brinjal
   - Capsicum
   - Tomato

2. Extent Cultivated of Major Varieties of Crop.

2.1 Family Cruciferae

2.1.1. RADDISH

Table 1: Varietal distribution of Raddish in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1,447**	**94**	**1891**	**97**	**3338**	**96**
DOA		**94**	**6**	**55**	**3**	**150**	**4**
Beeralu	OPV	94	6	55	3	150	4

Note: OPV – Open Pollinated Varieties

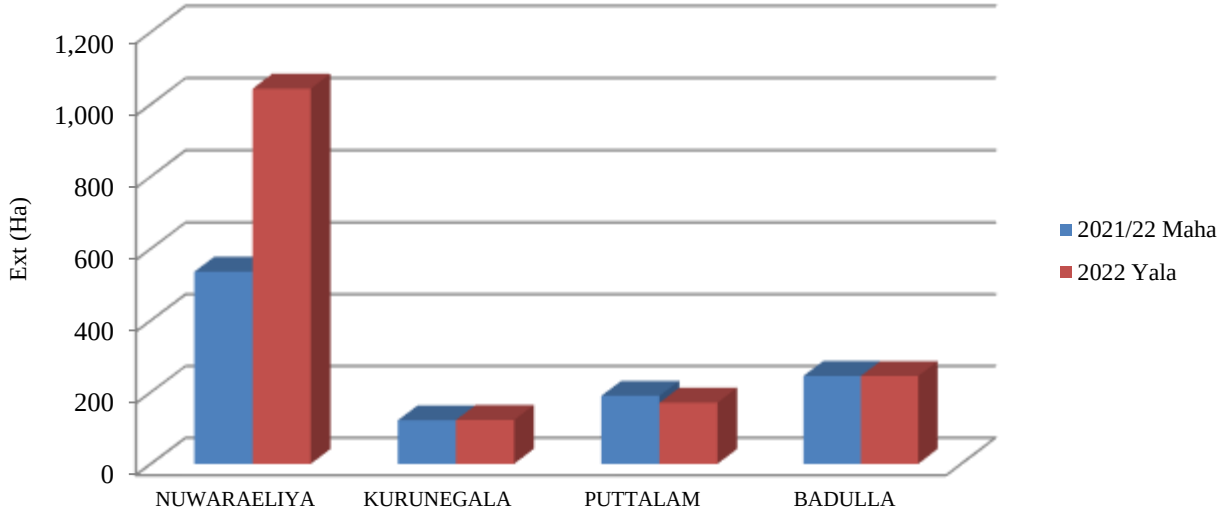

Figure 1: Major cultivating districts of Raddish - 2022

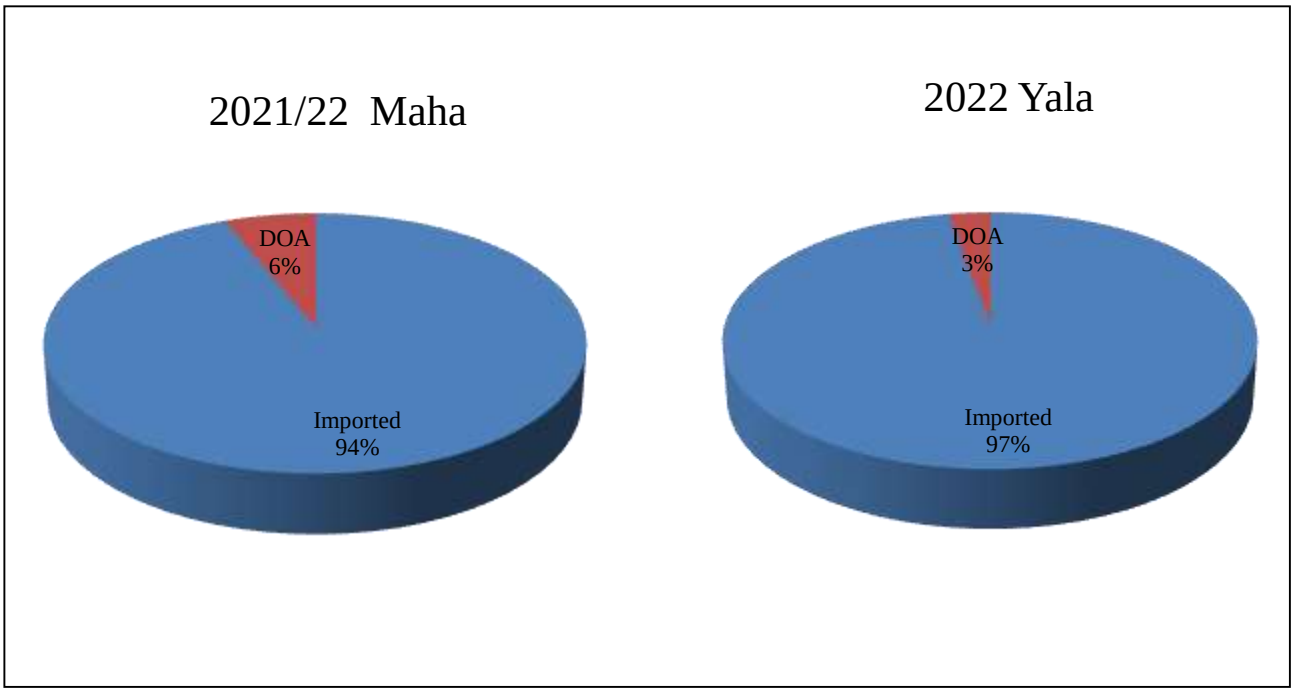

Figure 2: Percentage distribution of Radish varieties

2.2 Family Cucurbitaceae

2.1.1. BITTER GOURD

Table 2: Varietal distribution of Bitter Gourd in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**466**	**25**	**410**	**26**	**876**	**25**
DOA		**1243**	**65**	**1031**	**66**	**2274**	**66**
MC 43	OPV	678	36	582	37	1260	36
Thinnavely White	OPV	366	19	239	15	605	17
Matale Green	OPV	199	10	210	13	409	12
Local		**192**	**10**	**123**	**8**	**315**	**9**

Note: OPV – Open Pollinated Varieties

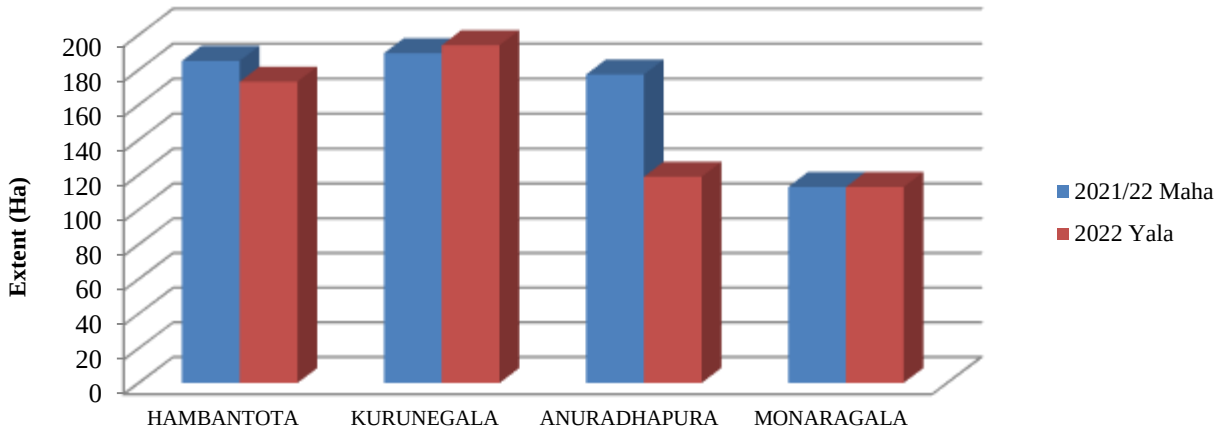

Figure 3: Major cultivating districts of Bitter gourd - 2022

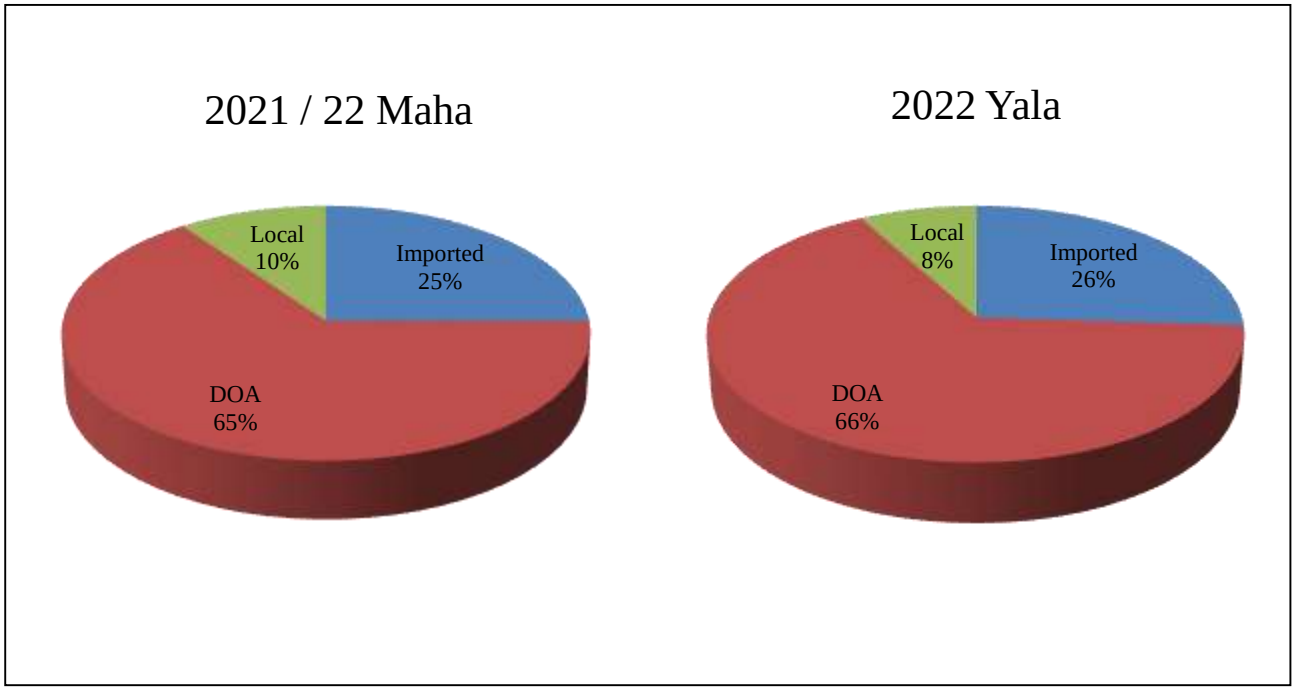

Figure 4: Percentage distribution of Bitter gourd varieties

2.2.2. CUCUMBER

Table 3: Varietal distribution of Cucumber in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1,241**	**91**	**926**	**73**	**2167**	**82**
DOA		**120**	**9**	**346**	**27**	**467**	**18**
Kalpitiya White	OPV	70	5	322	25	391	15
LY 58	OPV	50	4	24	2	73	3

Note: OPV – Open Pollinated Varieties

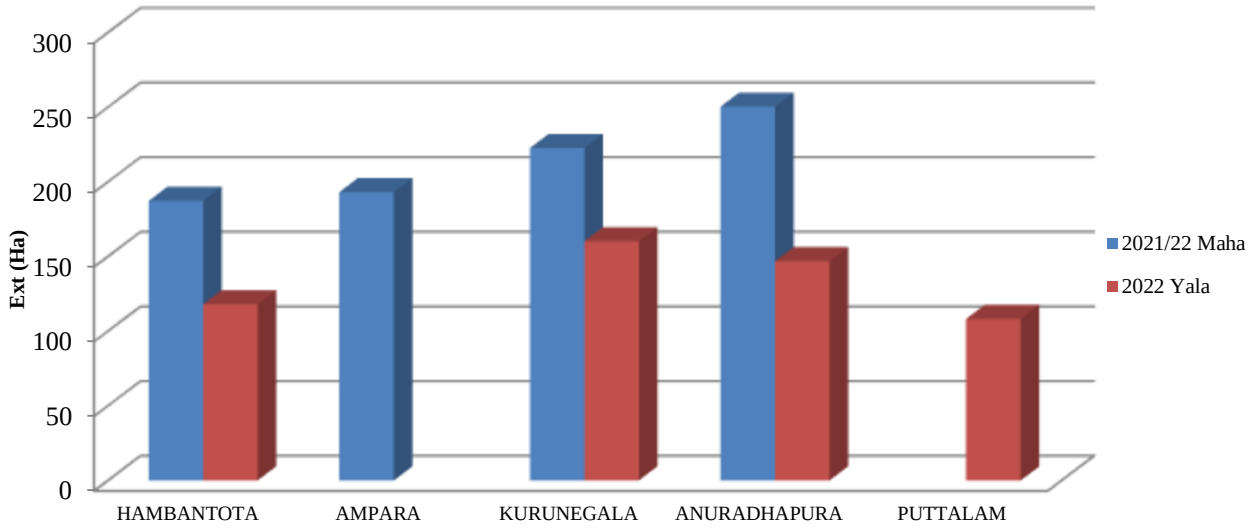

Figure 5: Major cultivating districts of Cucumber – 2022

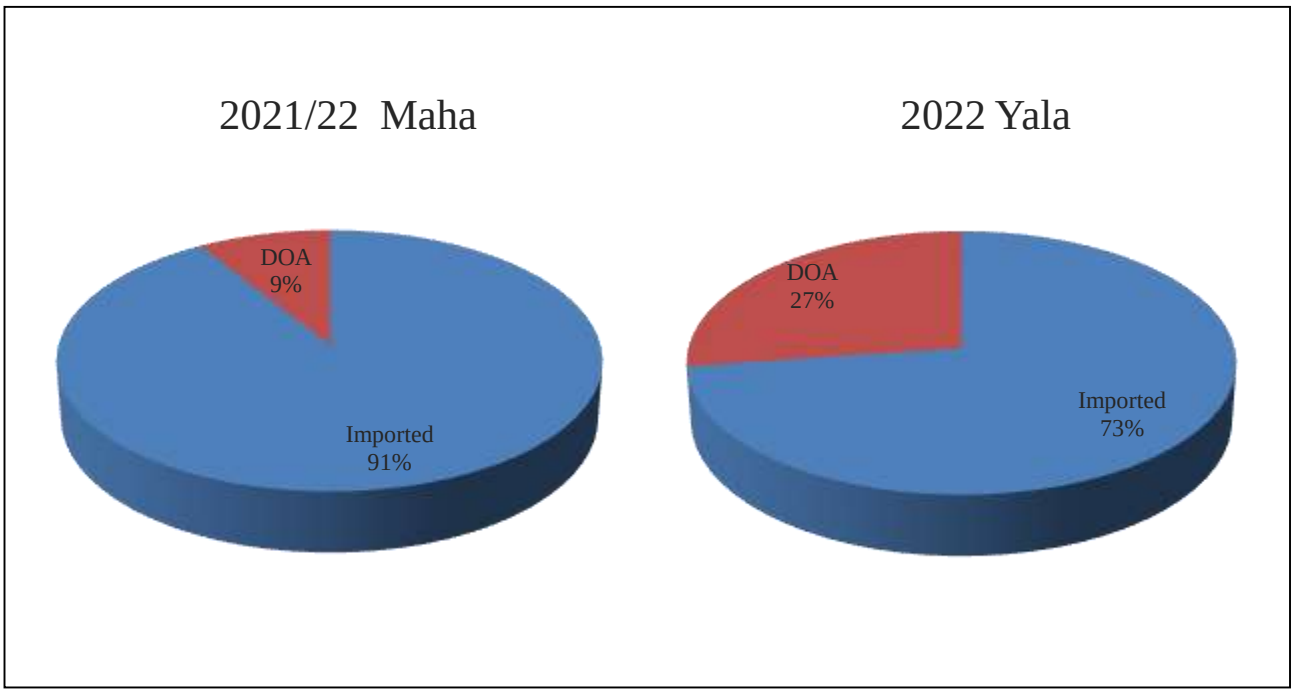

Figure 6: Percentage distribution of Cucumber varieties

2.2.3. LUFFA

Table 4: Varietal distribution of Luffa in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**673**	**30**	**671**	**38**	**1344**	**33**
DOA		**1575**	**70**	**1107**	**62**	**2682**	**67**
LA 33	OPV	1545	68	1052	59	2597	64
Asiri	OPV	16	1	19	1	35	1
Gannoruwa Ari	OPV	14	1	37	2	51	1

Note: OPV – Open Pollinated Varieties

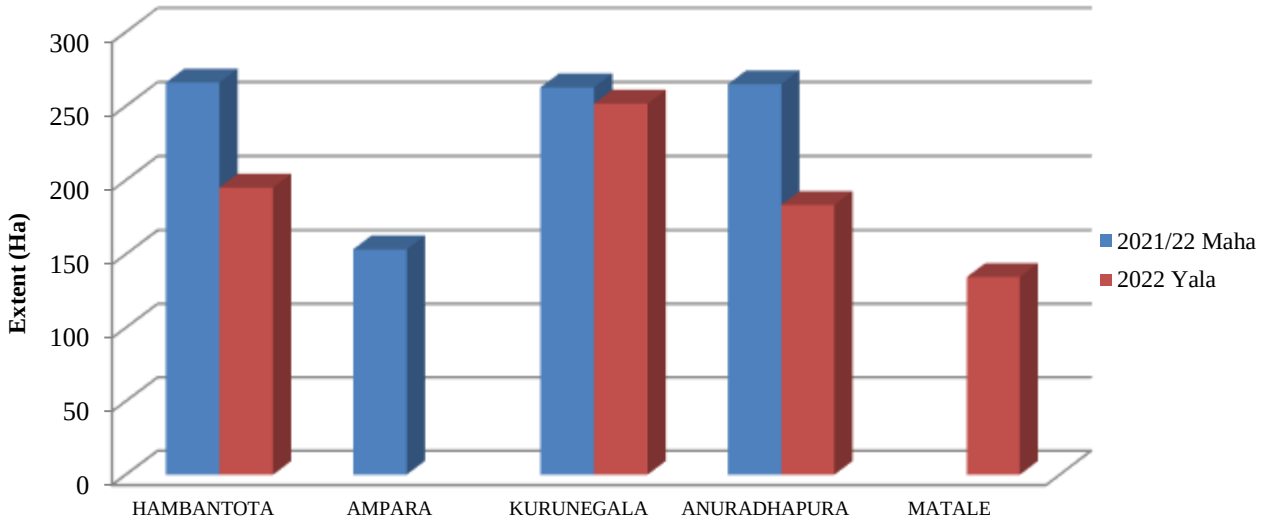

Figure 7: Major cultivating districts of Luffa – 2022

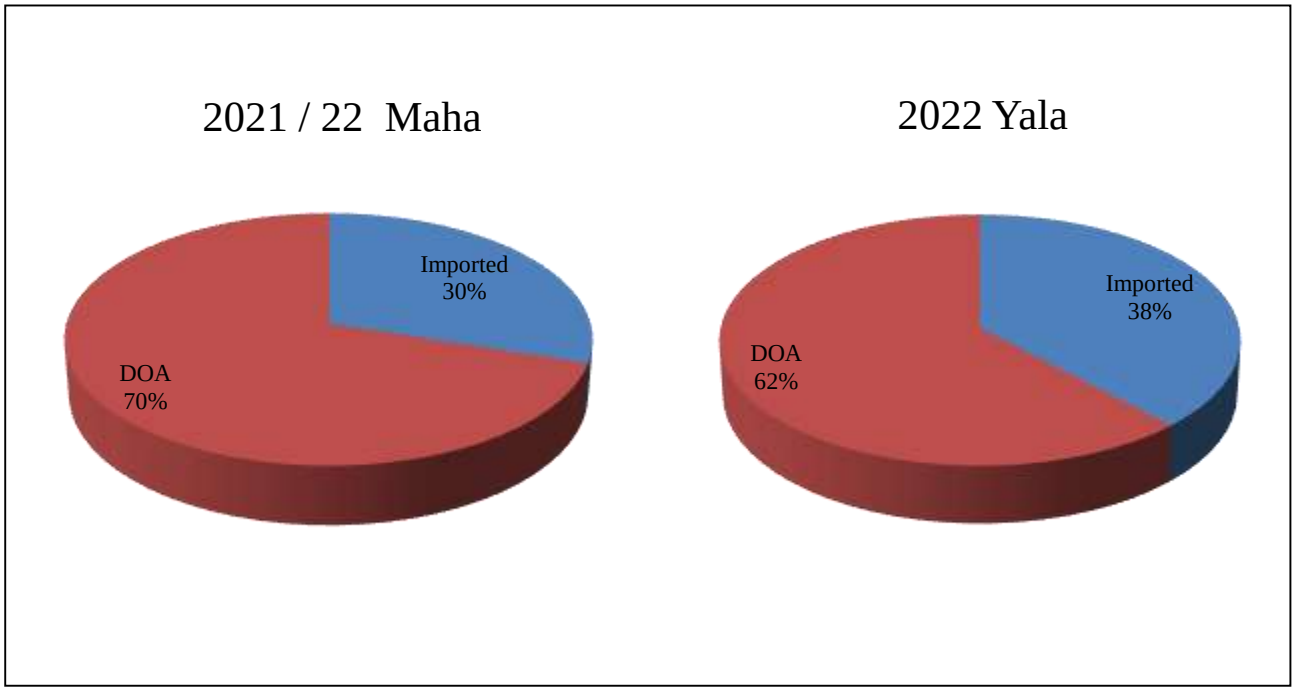

Figure 8: Percentage distribution of Luffa varieties

2.2.4 PUMPKIN

Table 5: Varietal distribution of Pumpkin in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**3,234**	**80.0**	**2281**	**79.9**	**5515**	**80**
Local		**809**	**20.0**	**570**	**20.0**	**1379**	**20**

Note: OPV – Open Pollinated Varieties

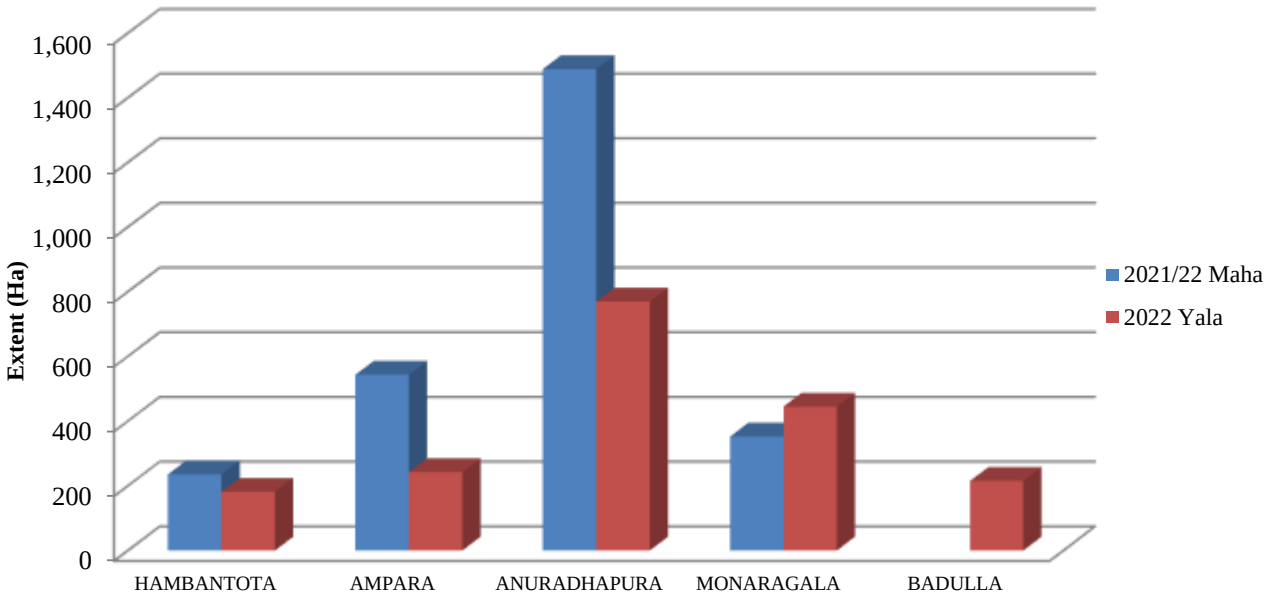

Figure 9: Major cultivating districts of Pumpkin - 2022

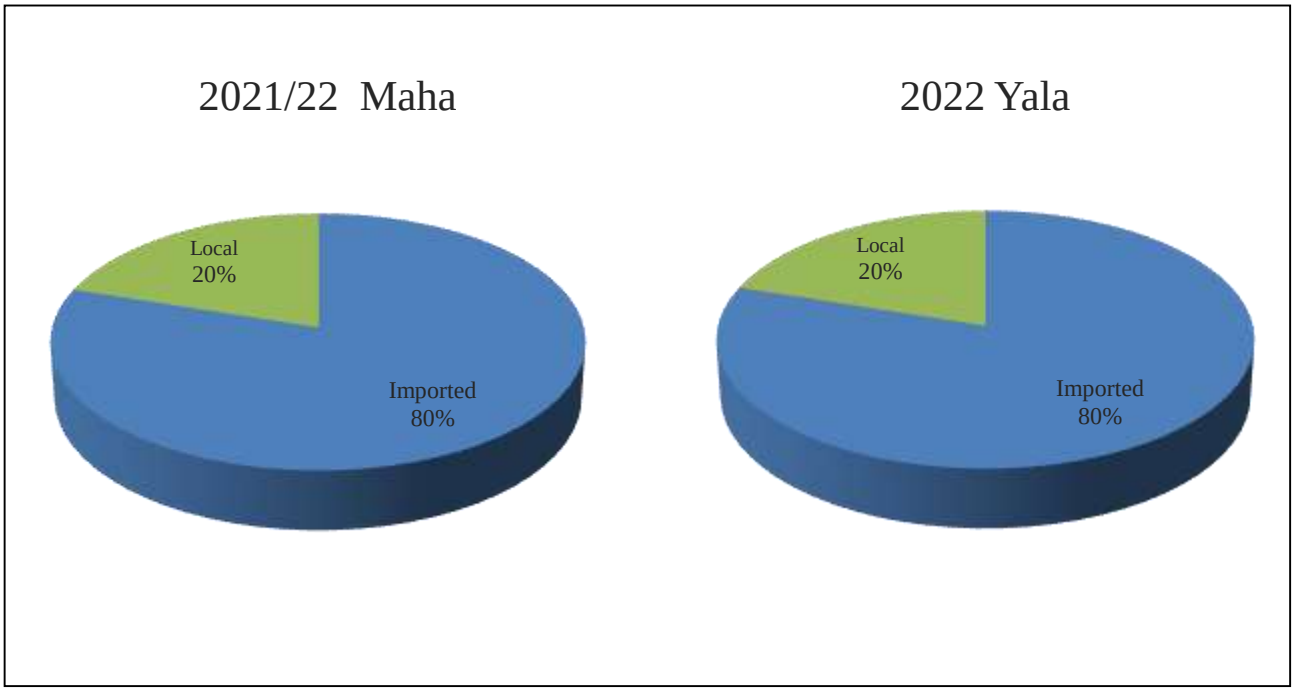

Figure 10: Percentage distribution of Pumpkin varieties

2.2.5 SNAKE GOURD

Table 6: Varietal distribution of Snake Gourd in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**217**	**15**	**140**	**13**	**357**	**14**
DOA		**1268**	**85**	**974**	**87**	**2242**	**86**
MI Short	OPV	230	15	139	12	369	14
TA 2	OPV	908	61	741	66	1649	63
Thinnavely Long	OPV	130	9	95	8	225	9

Note: OPV – Open Pollinated Varieties

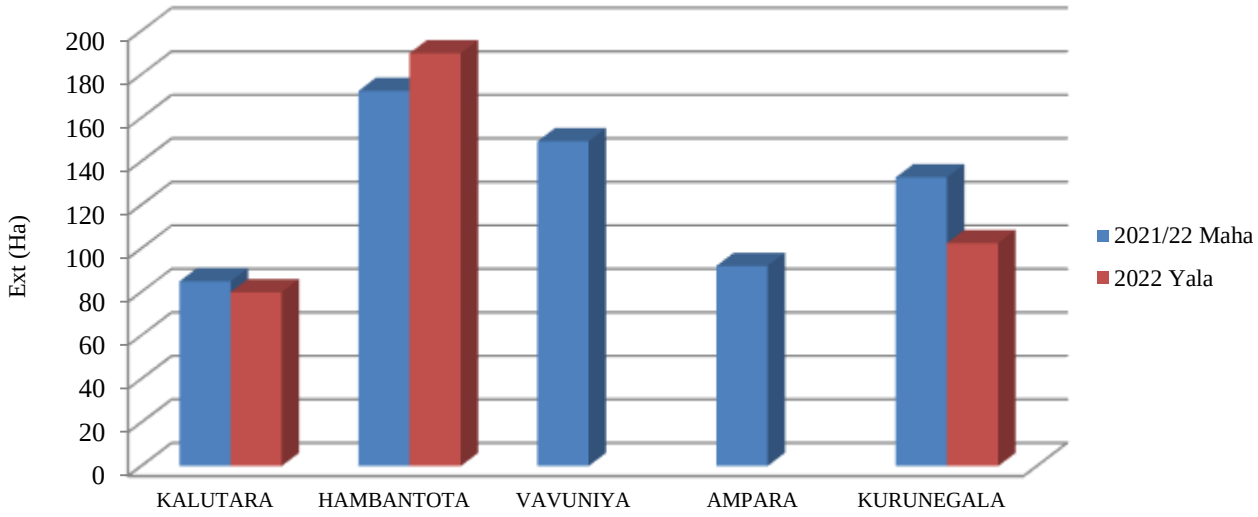

Figure 11: Major cultivating districts of Snake Gourd – 2022

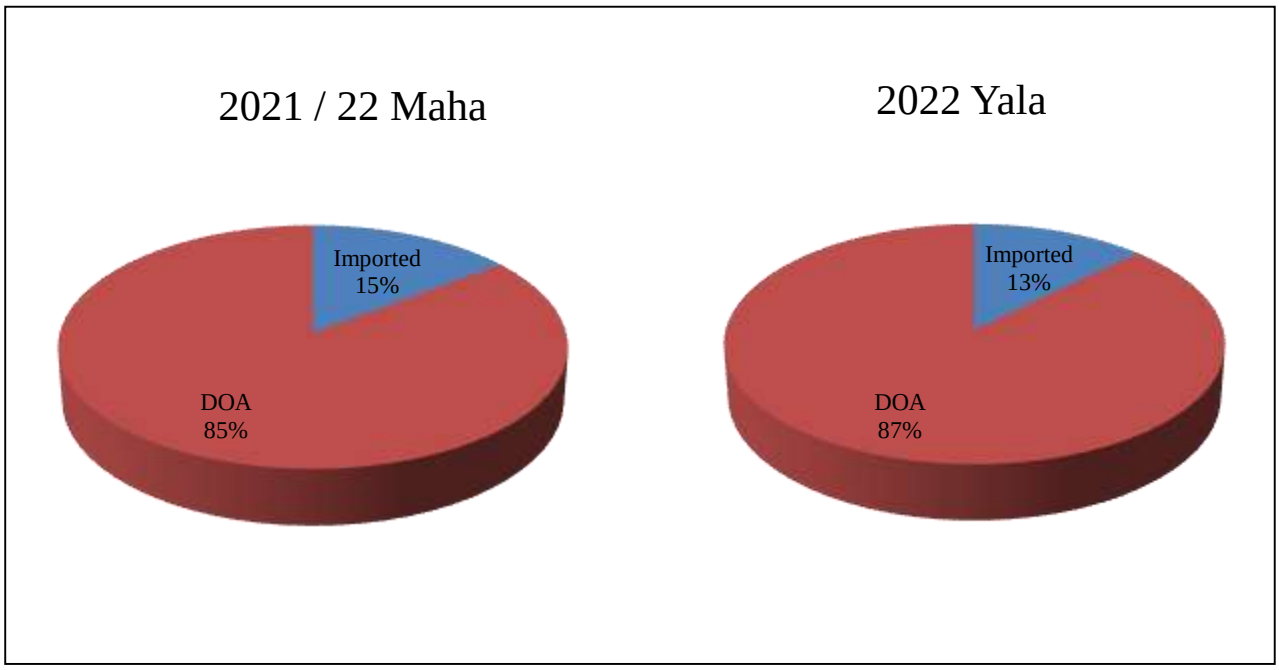

Figure 12: Percentage distribution of Snake Gourd varieties

2.3 Family Fabaceae

2.3.1 BUSHITA

Table 7: Varietal distribution of Bushita in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**236**	**43**	**100**	**29**	**336**	**38**
DOA		**215**	**40**	**181**	**52**	**396**	**44**
Paduru Polon	OPV	20	4	9	3	29	3
Sena	OPV	49	9	61	17	110	12
BS 1	OPV	147	27	111	32	257	29
Local		**91**	**17**	**68**	**19**	**159**	**18**

Note: OPV – Open Pollinated Varieties

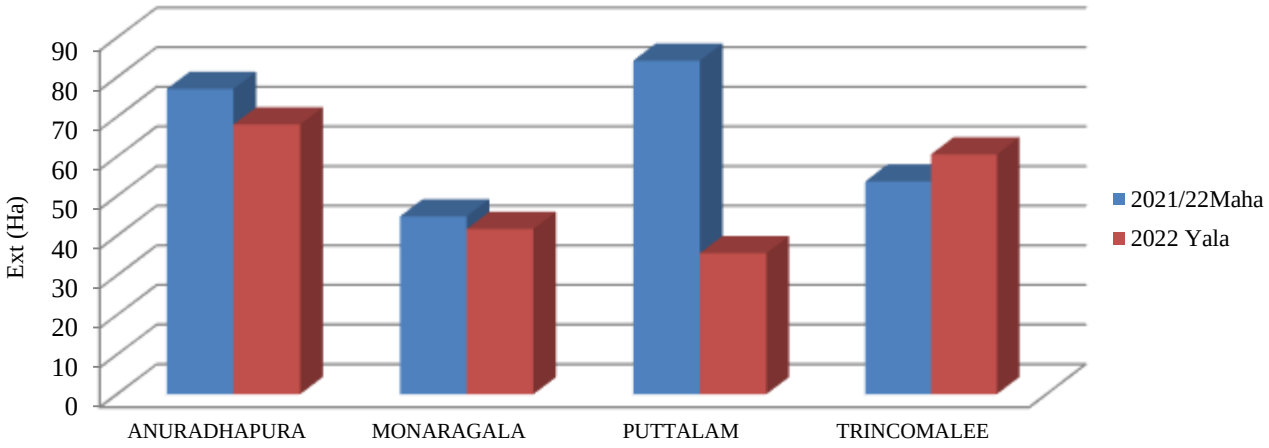

Figure 13: Major cultivating districts of Bushita – 2022

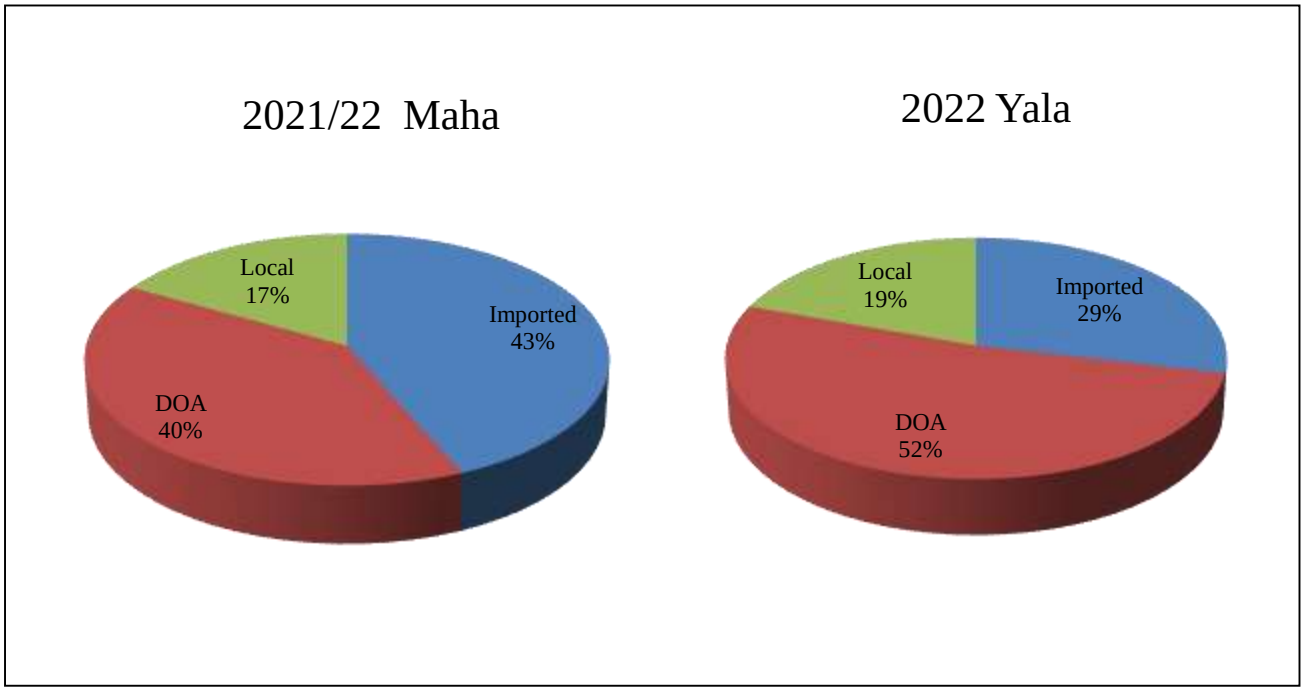

Figure 14: Percentage distribution of Bushita varieties

2.3.2. LONG BEAN

Table 8: Varietal distribution of Long Bean in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**400**	**9**	**463**	**13**	**862**	**11**
DOA		**3713**	**86**	**2995**	**83**	**6708**	**84**
Gannoruwa Hawari	OPV	82	2	233	6	314	4
Gannoruwa A9	OPV	261	6	259	7	520	7
Pollen Mae	OPV	1555	36	1193	33	2748	35
Hawari Mae	OPV	1815	42	1311	36	3126	39
Local		**219**	**5**	**155**	**4**	**375**	**5**

Note: OPV – Open Pollinated Varieties

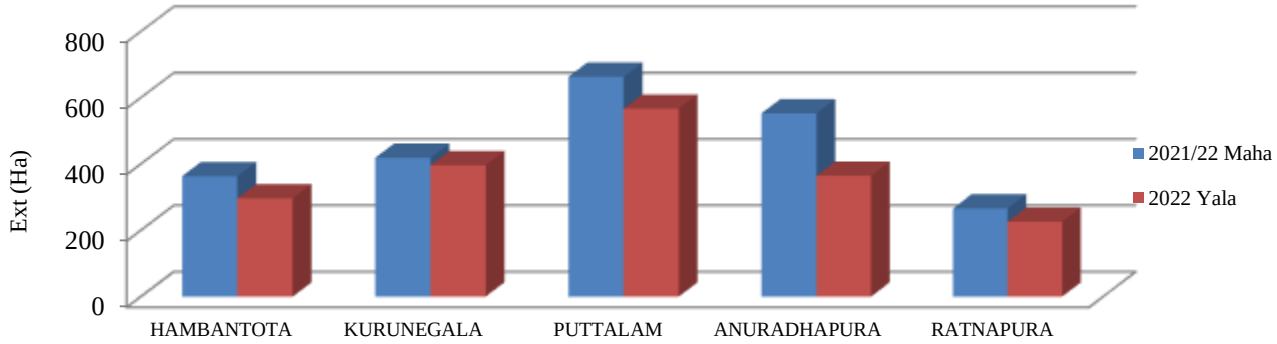

Figure 15: Major cultivating districts of Long Bean – 2022

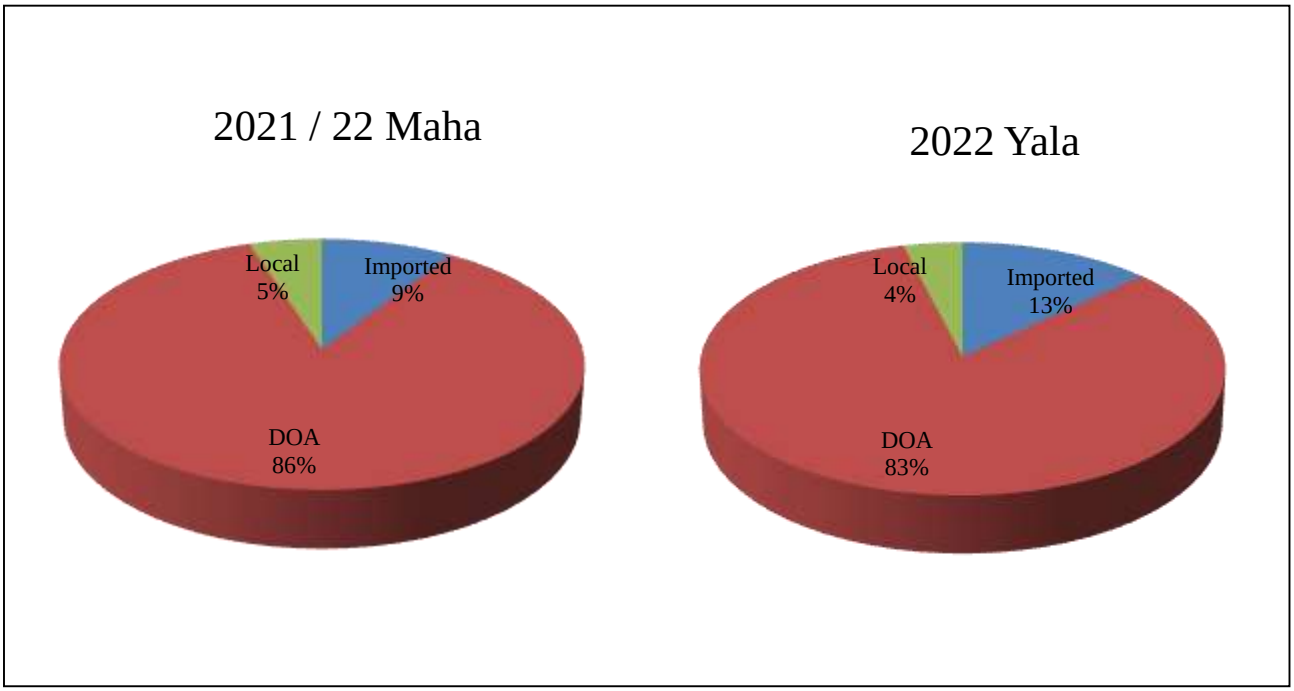

Figure 16: Percentage distribution of Long Bean varieties

2.3.3. POLE BEAN

Table 9: Varietal distribution of Pole Bean in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1322**	**41**	**1393**	**42**	**2715**	**42**
DOA		**241**	**8**	**179**	**5**	**420**	**6**
Bandarawela Kekulu	OPV	187	6	77	2	264	4
Lanka Butter	OPV	32	1	45	1	76	1
KWG	OPV	1	0	28	1	30	0
Other		21	1	29	1	50	1
Local		**1631**	**51**	**1719**	**52**	**3349**	**52**

Note: OPV – Open Pollinated Varieties

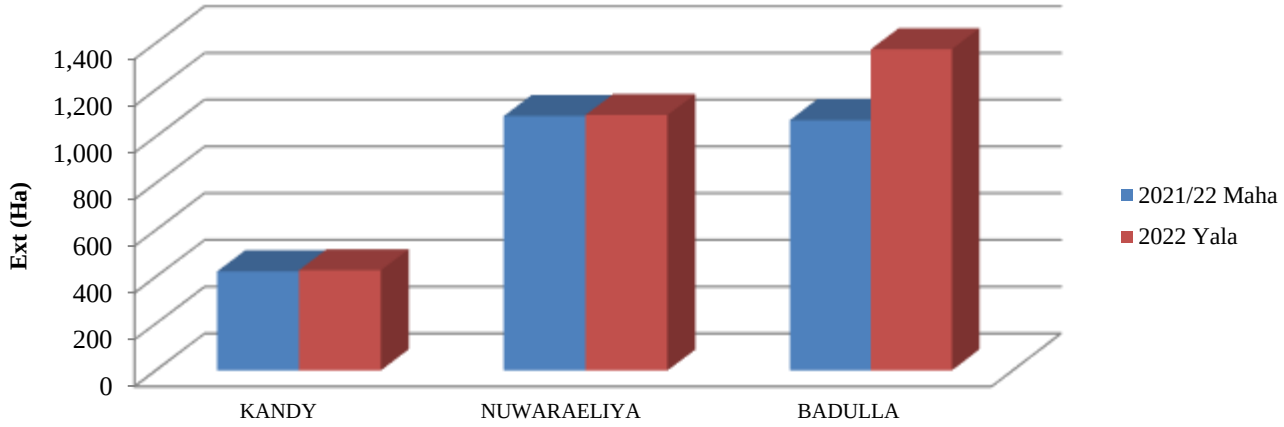

Figure 17: Major cultivating districts of Pole Bean – 2022

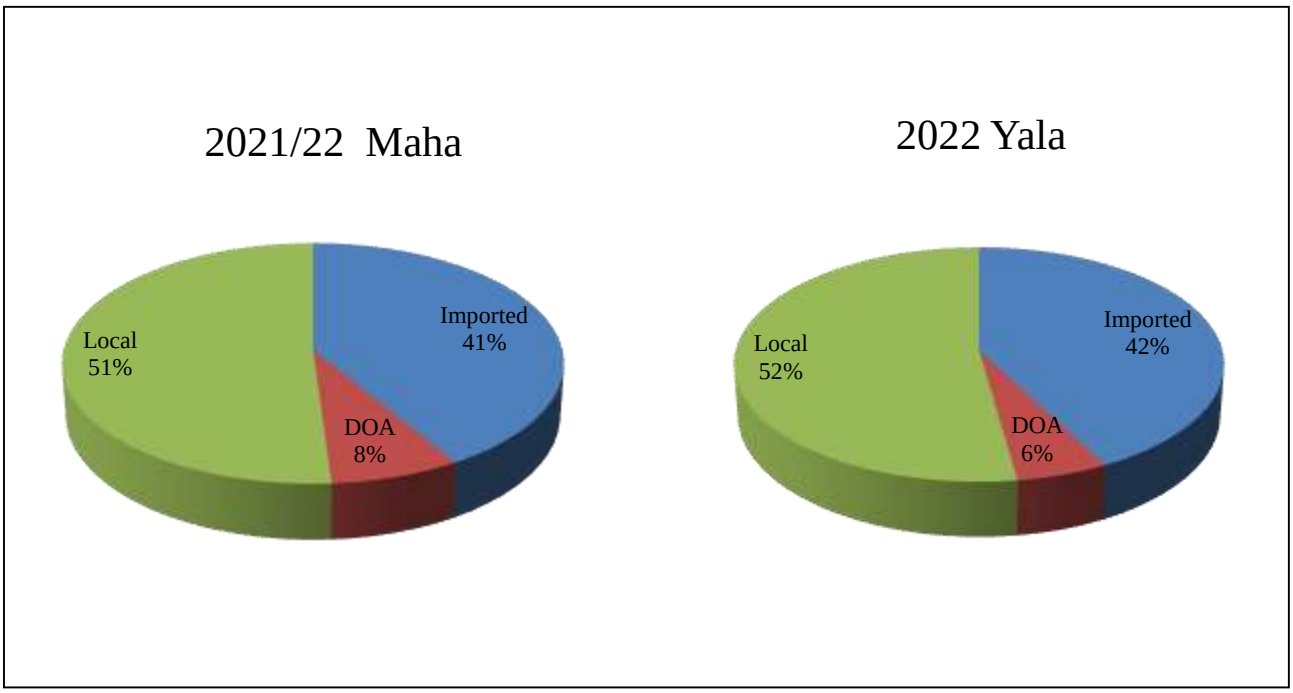

Figure 18: Percentage distribution of Pole Bean varieties

2.3.4. WINGED BEAN

Table 10: Varietal distribution of Winged Bean in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**511**	**45**	**427**	**39**	**938**	**42**
DOA		**415**	**37**	**466**	**42**	**881**	**39**
Krishna	OPV	114	10	214	19	328	15
SLS - 44	OPV	301	27	252	23	553	25
Local		**207**	**18**	**215**	**19**	**422**	**19**

Note: OPV – Open Pollinated Varieties

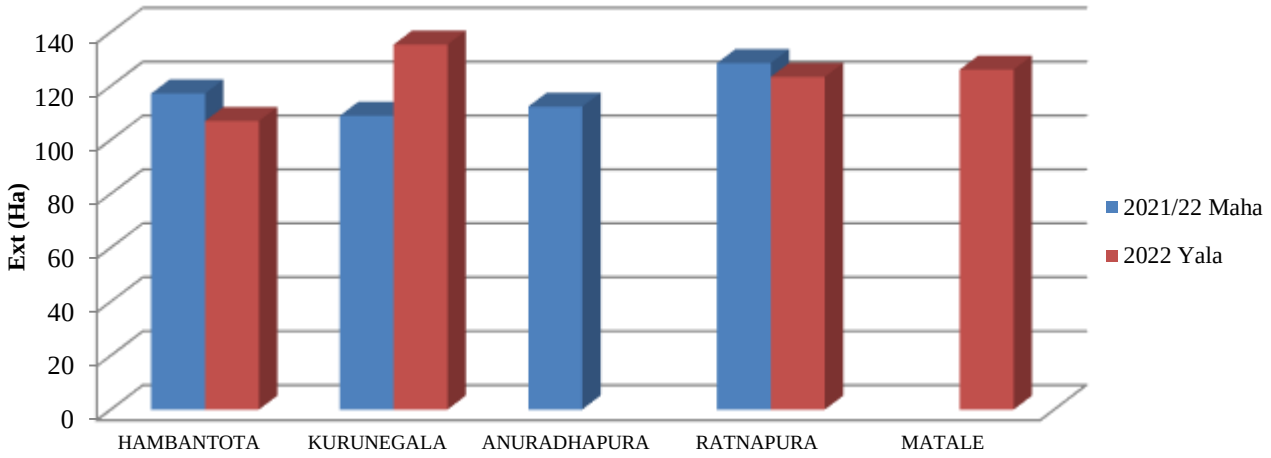

Figure 19: Major cultivating districts of Winged Bean – 2021

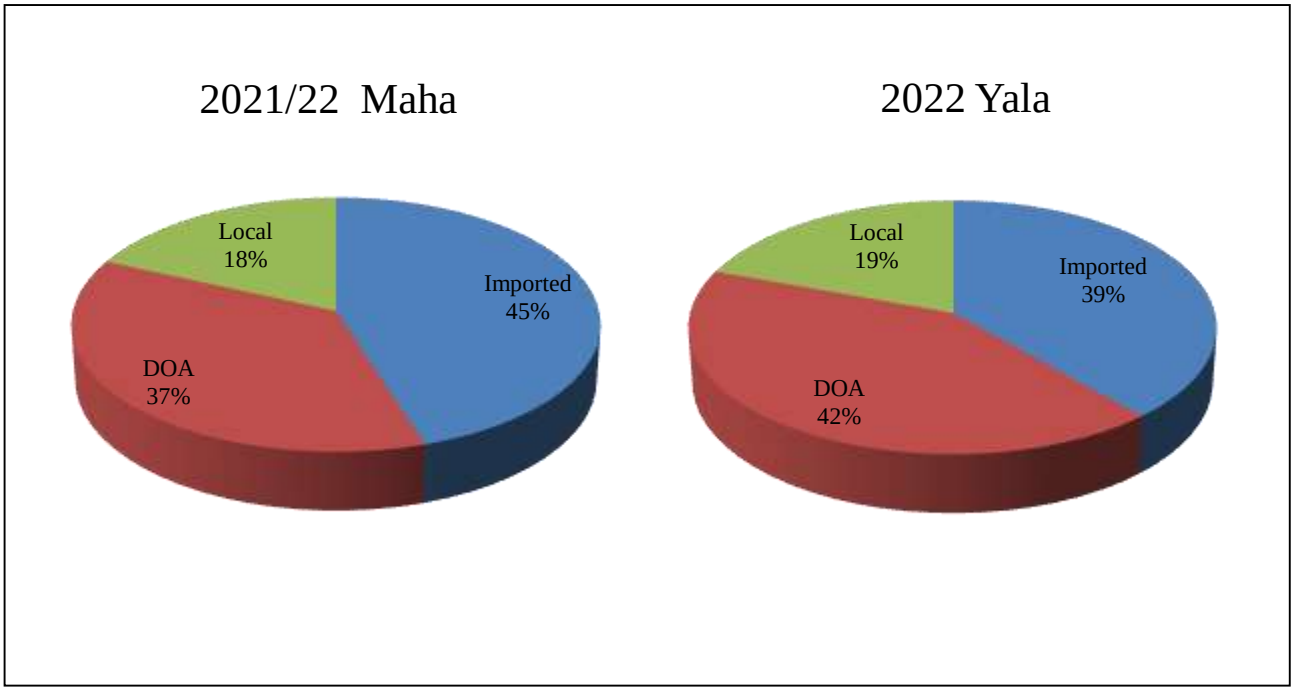

Figure 20: Percentage distribution of Winged Bean varieties

2.4 Family Malvaceae

2.4.1. OKRA

Table 11: Varietal distribution of Okra in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**443**	**11**	**430**	**12**	**873**	**11**
DOA		**3679**	**88**	**3086**	**84**	**6765**	**86**
MI 5	OPV	873	21	813	22	1686	22
MI 7	OPV	256	6	190	5	447	6
Haritha	OPV	2550	61	2083	57	4632	59
Local		**51**	**1**	**135**	**4**	**186**	**2**

Note: OPV – Open Pollinated Varieties

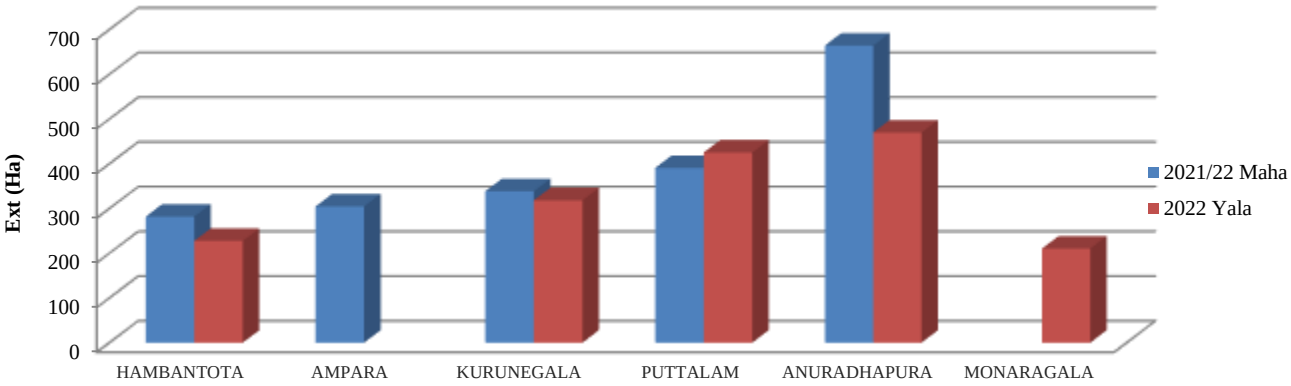

Figure 21: Major cultivating districts of Okra – 2022

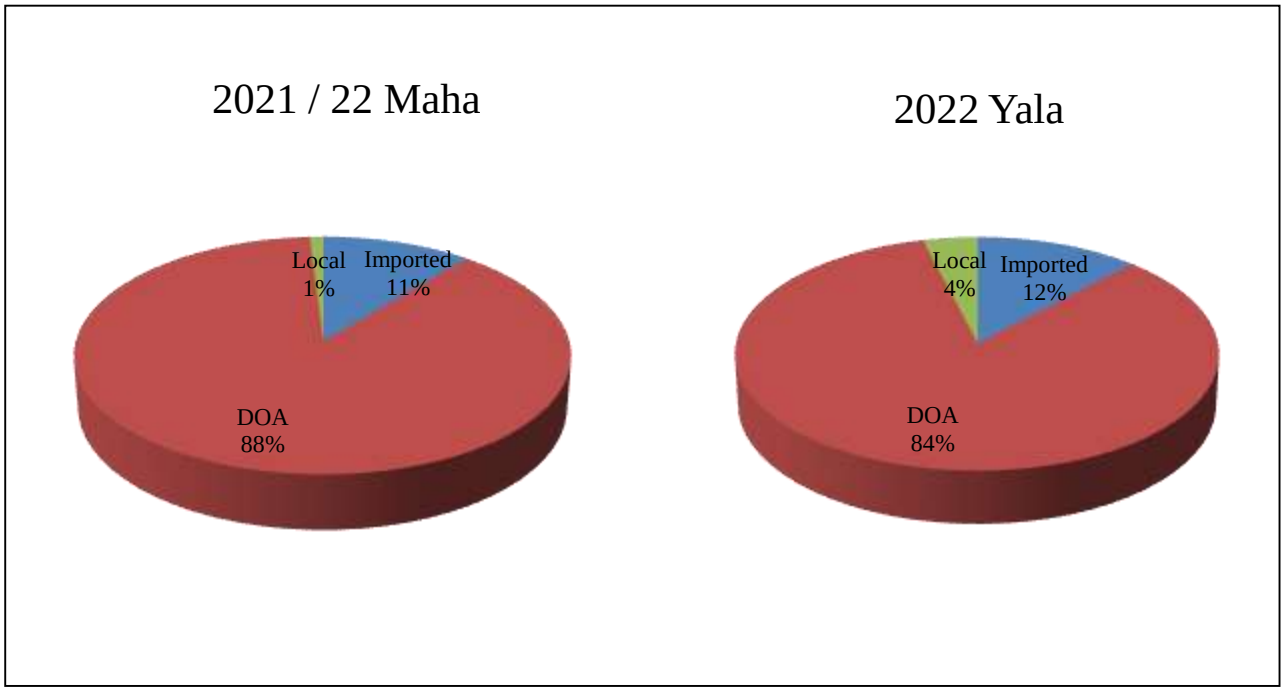

Figure 22: Percentage distribution of Okra varieties

2.5 Family Solanaceae

2.5.1. BRINJAL

Table 12: Varietal distribution of Brinjal in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1,109**	**19**	**773**	**16**	**1881**	**17**
DOA		**3146**	**54**	**3121**	**63**	**6267**	**58**
Amanda	Hybrid	91	2	167	3	258	2
Anjalee	Hybrid	72	1	59	1	131	1
Lena iri	Hybrid	1413	24	1300	26	2714	25
Padagoda	OPV	143	2	158	3	301	3
S M 164	OPV	1076	18	1116	23	2192	20
Thinnavely Purple	OPV	350	6	321	6	671	6
Local		**1564**	**27**	**1060**	**21**	**2624**	**24**

Note: OPV – Open Pollinated Varieties

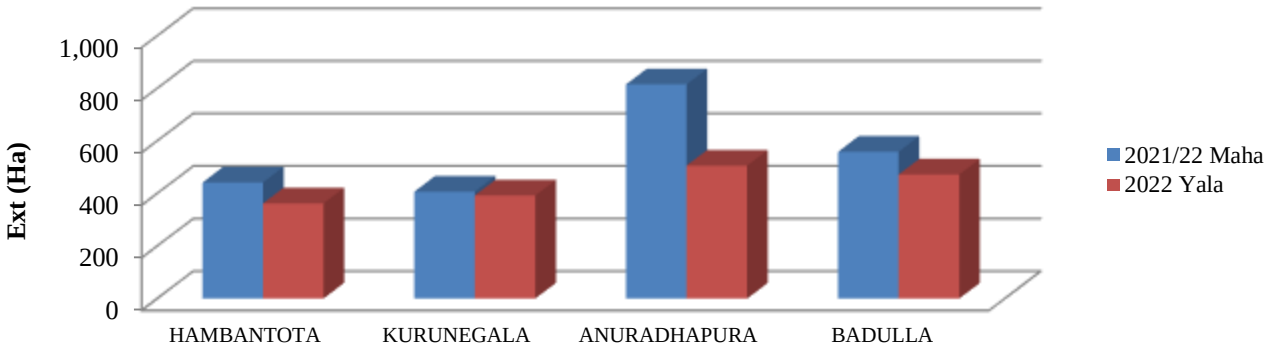

Figure 23: Major cultivating districts of Brinjal – 2022

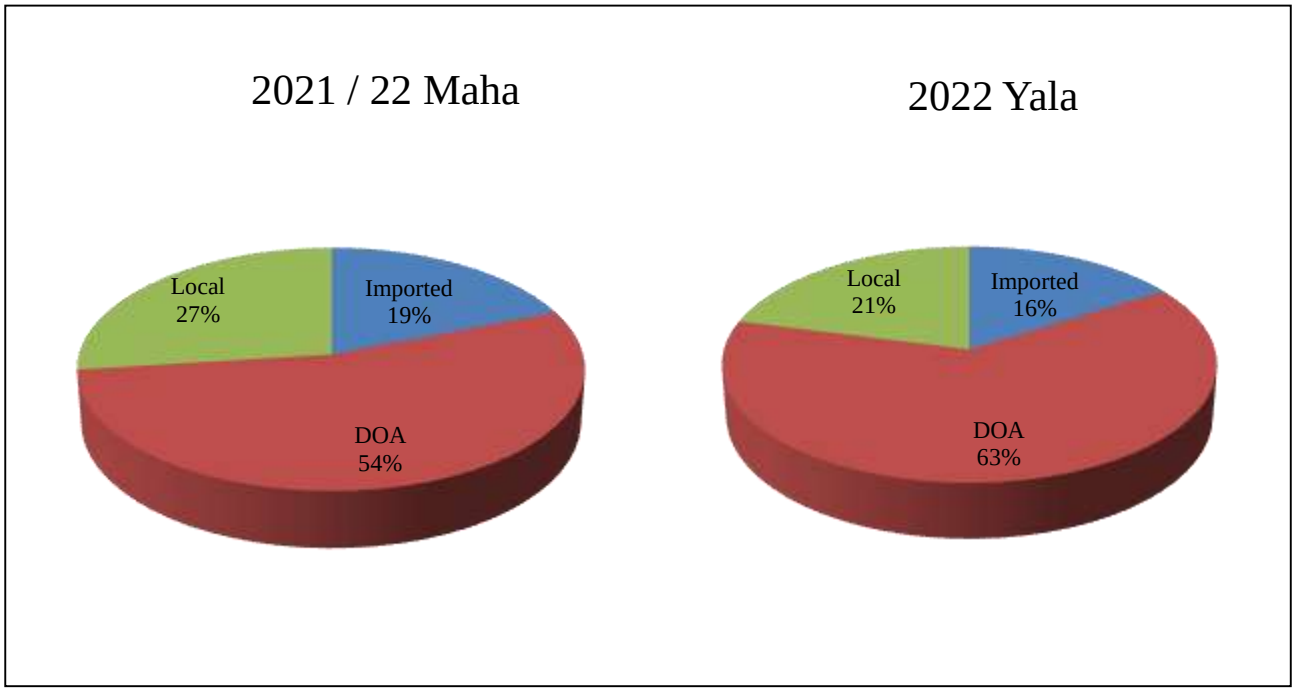

Figure 24: Percentage distribution of Brinjal varieties

2.5.2. CAPSICUM

Table 13: Varietal distribution of Capsicum in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1,546**	**95.7**	**1231**	**87.8**	**2777**	**92.0**
DOA		**69**	**4.3**	**171**	**12.2**	**240**	**8.0**
CA-8	OPV	65	4.0	154	11.0	219	7.3
Prarthana	Hybrid	4	0.3	6	0.4	10	0.3
Other		-	-	11	0.8	11	0.4

Note: OPV – Open Pollinated Varieties

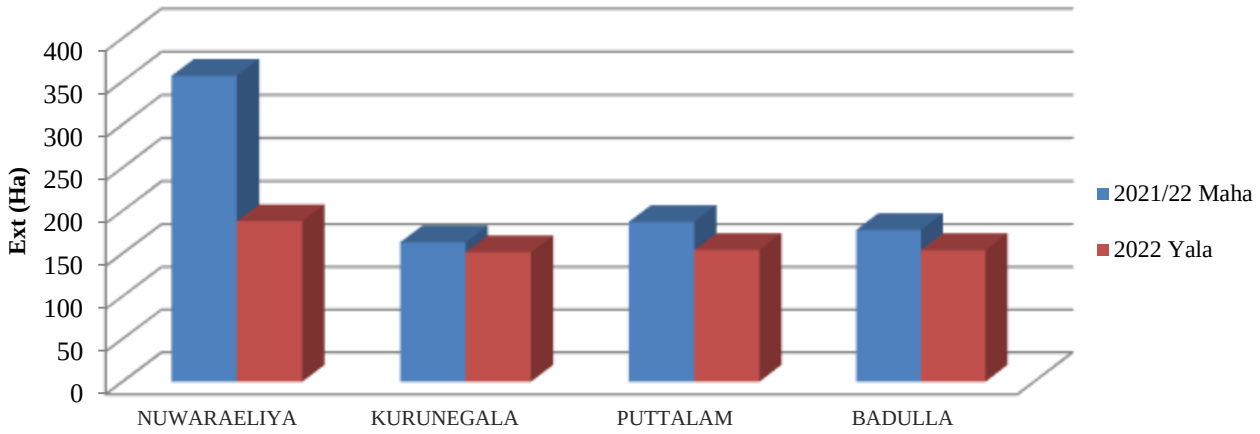

Figure 25: Major cultivating districts of Capsicum – 2022

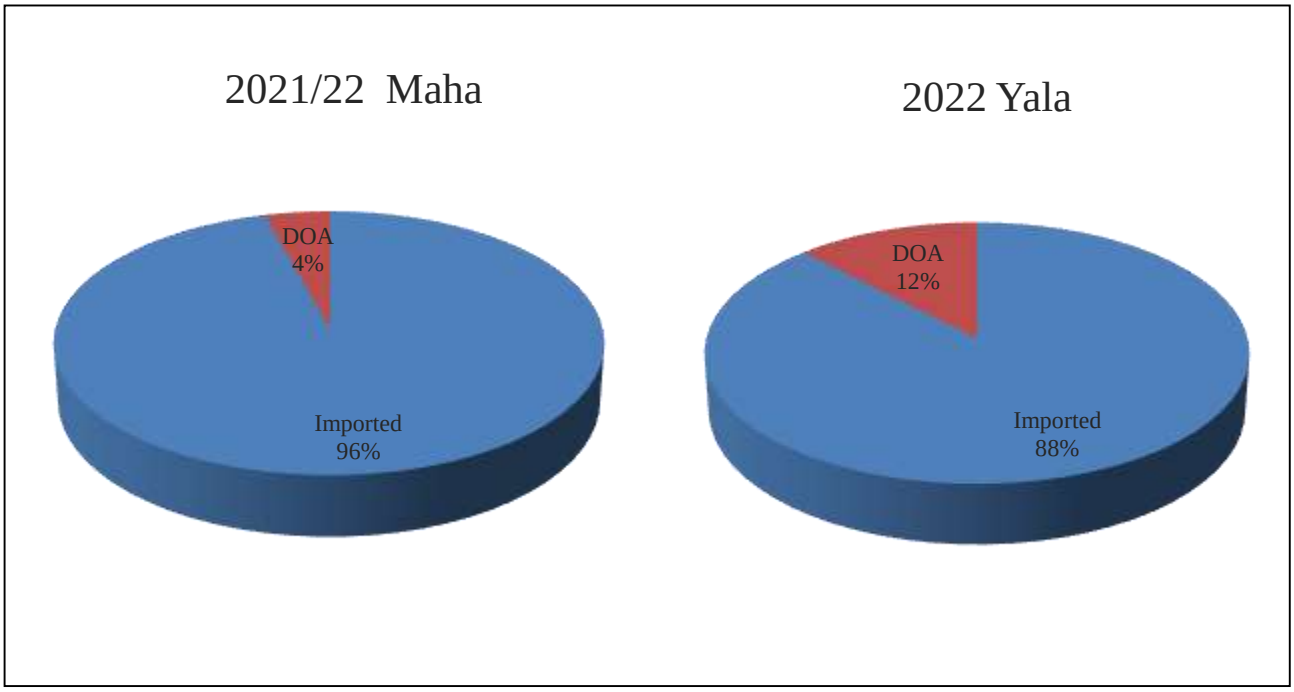

Figure 27: Percentage distribution of Capsicum varieties

2.5.3. TOMATO

Table 14: Varietal distribution of Tomato in 2021/22 Maha and 2022 Yala seasons

Variety	Hybrid/OPV	2021/22 Maha		2022 Yala		Annual	
		Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)	Extent (ha)	Percentage (%)
Imported		**1,356**	**45**	**1422**	**49**	**2778**	**47**
DOA		**1654**	**54**	**1423**	**50**	**3077**	**52**
Maheshi	Hybrid	1061	35	851	30	1912	32
Lanka Sour	OPV	160	5	103	4	263	4
Thilina	OPV	412	14	469	16	881	15
Rashmi	OPV	21	1			21	0.35
Local		**21**	**1**	**16**	**1**	**38**	**1**

Note: OPV – Open Pollinated Varieties

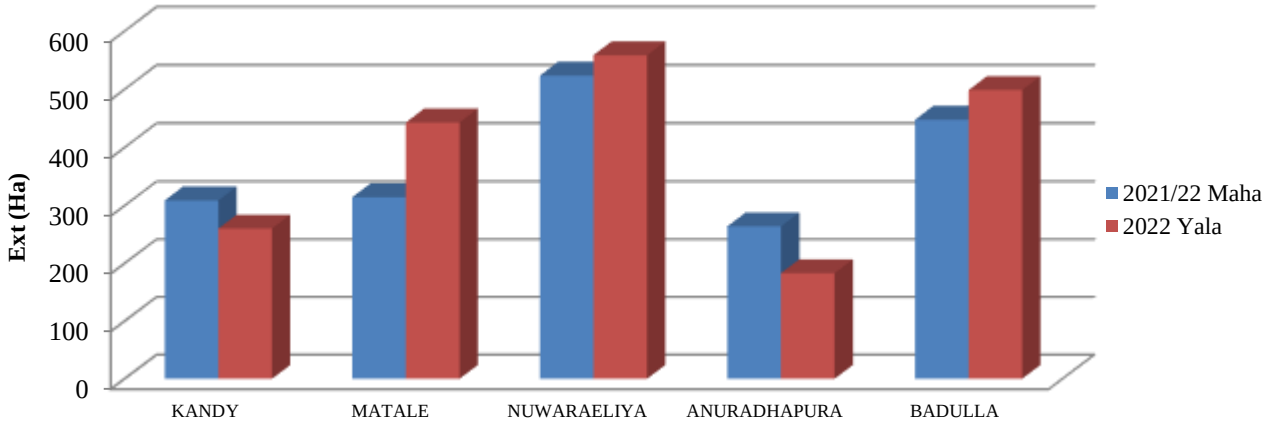

Figure 27: Major cultivating districts of Tomato – 2020

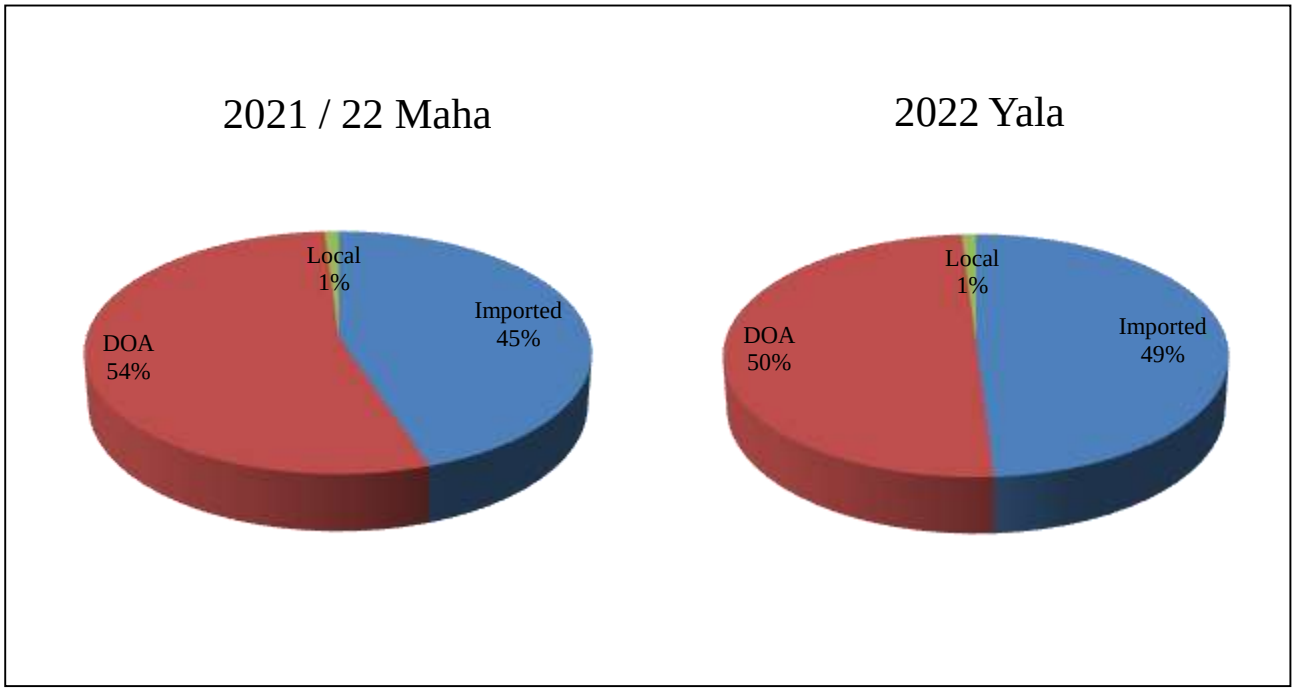

Figure 28: Percentage distribution of Tomato varieties

3. List of Vegetable Varieties Released

Table 15: Vegetable varieties released by HORDI since 1940

Crop	Year of release	Variety
Bitter Gourd	1940	MC 43
	1968	Tinnavely White
	2006	Matale Green
	2006	MG
	2015	Nirigi
Beans	2006	Sanjaya
	2012	HORDI Green
	2012	Bandarawela Green
Brinjal	1940	SM 164
	1968	Thinnavely purple
	1996	Padagoda
	2005	Amanda (F1)
	2005	Anjali (F1)
	2012	HORDI lenairi
Capsicum	1940	CA 8
	2006	Lanka Yellow Wax
	2015	Prarthana
Cucumber	2012	HORDI Green
	2013	Gannoruwa white
Long bean	2011	Gannoruwa Hawari
	2015	Gannoruwa A9
Luffa	2013	Gannoruwa Ari
Pumpkin	2016	Pathma
Tomato	1991	Ravi
	1999	Thilina
	1999	Tharindu
	2001	Rashmi
	2001	Rajitha
	2005	Maheshi (F1)
	2005	Lanka sour
	2008	KC 1
	2008	Bhathiya (F1)
	2010	Lanka Cherry
	2019	HORDI tomato
	2019	Tomato- HT 1

Source: Varietal Release Committee report, various year

For more information

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