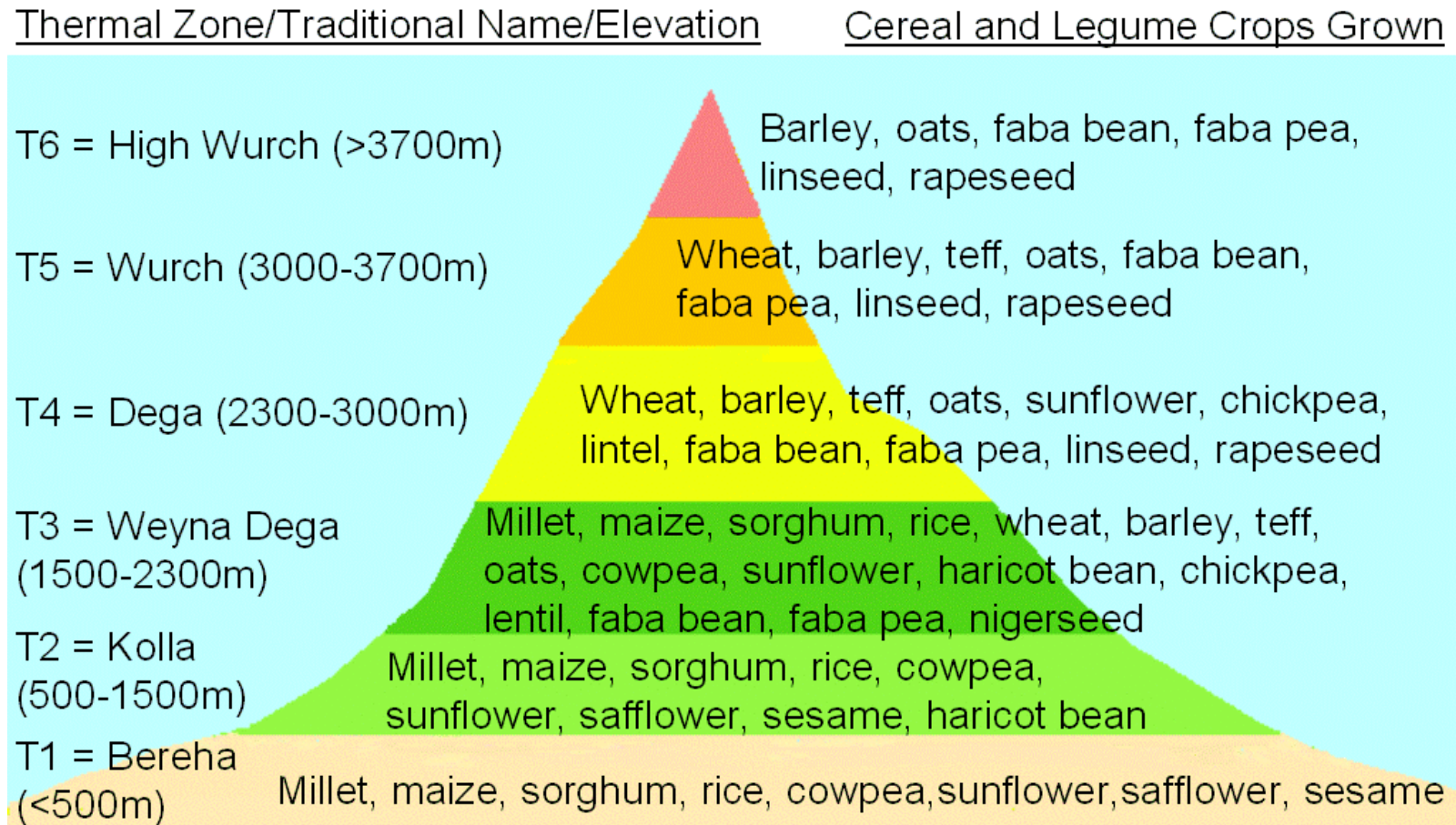


Crop Adaptation to Elevation in Ethiopia



Note: 1. Altitude ranges and thermal zones defined in Tables A1 and A2.
 2. Elevation increments (y-axis) not drawn to scale.

Table A1. Traditional Elevation Names and Approximate Altitude Ranges (from De Pauw & Bruggeman, 1988)

Map Symbol	Traditional Zone Name	FAO (1986)	Getahun (1978)	Gamachu (1977)	AACM (1987)	Hurni (1986)	Westphal (1975)	Huffnagel (1961)
T1	Bereha (when dry) Lower Kolla			<800	<500	<500		
T2	Kolla (Upper Kolla)	<1500	<1800	800-1500	500-1300	500-1500	<1800	<1800
T3	Weyna Dega	1500-2300	1800-2400	1500-2300	1300-2200	1500-2300	1800-2400	1800-2400
T4	Dega	>2300	>2400	2300-3000	2200-3000	2300-3200	>2400	2400-3800
T5	Wurch			>3000	>3000	>3200-3700		
T6	High Wurch					>3700		>3800

Table A2. Crop Adaptability to Elevation (from De Pauw & Bruggeman, 1988)

Map Symbol	Traditional Zone Names	Approx. Temp.(deg.C)	Altitude Range (m)	Cereals	Legumes and Oilseeds	Root crops and Industrials
T1	Bereha (when dry) Lower Kolla	>27.5/26	<500/800	Millet, Maize, Sorghum, Rice	Cowpea, Sunflower, Safflower, Sesame	Cotton, Sweet Potato, Cassava, Sugarcane
T2	Kolla (Upper Kolla)	21-26/27.5	500/800-1500/1600	Millet, Maize, Sorghum, Rice	Cowpea, Sunflower, Safflower, Sesame, Haricot Bean	Cotton, Sweet Potato, Cassava, Sugarcane, Citrus, Chili, Coffee
T3	Weyna Dega	16-21	1500/1600-2300/2400	Millet, Maize, Sorghum, Rice, Wheat, Barley, Teff, Oats	Cowpea, Sunflower, Haricot Bean, Chickpea, Lentil, Faba Bean, Faba Pea, Nigarseed	Sweet Potato, Citrus, Chili, Coffee, Tea, Potato, Enset
T4	Dega	11/12-16	2300/2400-3000/3200	Wheat, Barley, Teff, Oats	Sunflower, Chickpea, Lentil, Faba Bean, Faba Pea, Linseed, Rapeseed	Potato, Enset, Pyrethrum
T5	Wurch	7.5-11/12	3000/3200-3700/3800	Barley, Oats	Faba Bean, Faba Pea, Linseed, Rapeseed	Potato, Enset, Pyrethrum
T6	High Wurch	<7.5	>3700/3800			

1. Crop altitude and temperature ranges above can be extended by adoption of cold or heat-tolerant varieties.
2. T6 is unsuitable for crops due to very low temperature.

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