TrueScope Agri

TRUESCOPE NEUTRAL SYSTEM

SOUTH AFRICAN FIELD REFERENCE

VEGETABLE PRODUCTION MATRIX

58 crops | Dynamic irrigation | Regional sowing | Evidence status

EDITION 2026.2 | REVIEWED 22 AUGUST 2026 | A0 LANDSCAPE

2026 EVIDENCE REVIEW – ARC, FAO, SAWS and Kew sources

58 CROPS – Current names + planning norms

DYNAMIC WATER – ETc = Kc x local ETo

VERIFY LOCALLY – Cultivar, lab tests, forecast and label

IDENTITY - TAXONOMY UPDATED		ESTABLISHMENT - CULTIVAR DEPENDENT								CROP POTENTIAL - PLANNING RANGE						IRRIGATION - FAO-56 Kc				NUTRITION - LAB VERIFY							SOIL + RISK	
Crop	Accepted / current botanical name	Seed / kg*	Direct kg / ha*	Transplant kg / ha*	Germ. °C	Germ. days	Sow depth cm	In-row cm	Between rows cm	Opt. growth °C	Plants / ha	Yield t / ha*	Days to maturity*	Harvest window days	Root depth cm	Seasonal water mm*	Kc ini	Kc mid	Kc end	Removal N kg / t*	Removal P kg / t*	Removal K kg / t*	Leaf N %*	Leaf P %*	Leaf K %*	Micro sensitivity*	Soil pH (H2O)	Disease / disorder codes*
Artichoke (globe)	Cynara cardunculus (Scolymus Group)	19 000 - 20 000	-	0.3	18 - 22	17	1-1.5	100	200	15 - 25	5 000	5 - 8	11 m	30 - 60	+ 120	400	0.50	1.00	0.95	-	-	-	-	-	-	B	6.5	Ba
Asparagus	Asparagus officinalis	35 000 - 55 000	2.5 - 3	0.4 - 0.5	25	15 - 20	1 - 2	45 - 90	60 - 200	20 - 30	Green 18 000 - 37 000	3 - 6	2 yr	15 yr	+ 120	500	0.50	0.95	0.30	40	10	60	3	0.3	2	B, Fe, Mo	6 - 6.8	F, Ps
Beans - garden	Phaseolus vulgaris	4 500	50 - 110	-	28	7	1 - 2	5 - 10	40 - 60	15 - 20	150 000 - 500 000	12 - 20	60 - 80	10 - 20	60 - 100	320	0.50	1.05	0.90	8.5	0.85	5.8	5	0.5	4	Mo, Mn, Zn, Fe	5.5 - 6.8	BCMV, Cl, F, Psph, Scl, Ua
Beans - fine garden	Phaseolus vulgaris	6 000 - 10 000	40 - 50	-	28	7	1 - 2	5 - 7	30 - 60	15 - 20	300 000 - 500 000	15 - 20	60 - 70	15 - 30	45 - 60	320	0.50	1.05	0.90	8.5	0.85	5.8	5	0.5	4	Mo, Mn, Zn, Fe	5.5 - 6.8	BCMV, Cl, F, Psph, Scl, Ua
Beans - runner	Phaseolus coccineus	4 500	30 - 30	-	28	7	1 - 2	15 - 20	40 - 60	15 - 20	60 000 - 120 000	12 - 20	65 - 85	10 - 20	60	320	0.50	1.05	0.90	8.5	0.85	5.8	4	0.35	2.5	Mg	6 - 6.8	BCMV, Cl, F, Psph, Scl, Ua
Beetroot	Beta vulgaris (Conditiva Group)	50 000 - 60 000	4 - 8	-	20	7	1.5 - 2.5	5 - 10	30 - 40	15 - 20	170 000 - 350 000	25 - 40	55 - 60	30	45 - 60	340	0.50	1.05	0.95	2.9	0.5	6.9	4	0.35	4	Cu, Mo, Mg, B	6 - 6.8	BCTV, Cb, Fob, Pfb, BNYVV
Broccoli	Brassica oleracea (Italica Group)	220 000 - 350 000	-	0.2 - 0.6	22	5	1 - 1.5	25 - 50	45 - 60	15 - 25	20 000 - 40 000	8 - 15	65 - 120	14	45 - 60	440	0.70	1.05	0.95	8.5	1.7	9.22	4.8	1	4	Fe, Mo	6 - 6.8	Aca, Abe, Ec, Foco, Pe, Pb, Px, Psm, Xca, Xcc
Brussels sprouts	Brassica oleracea (Gemmifera Group)	200 000 - 300 000	-	0.2 - 0.4	22	9	1 - 1.5	40 - 50	65 - 75	15 - 25	27 000 - 40 000	14 - 17	120 - 150	14 - 20	45 - 60	440	0.70	1.05	0.95	8.5	1.9	9.22	4	0.5	3	B, Mo	6 - 6.8	Aca, Abe, Ec, Foco, Pe, Pb, Px, Psm, Xca, Xcc
Cabbage	Brassica oleracea (Capitata Group)	280 000 - 350 000	-	0.3	20 - 22	6 - 10	0.5 - 1.5	40 - 70	60 - 90	15 - 20	30 000 - 40 000	60 - 80	70 - 160	35	45 - 60	440	0.70	1.05	0.95	3.4	0.6	3.6	3.4	0.5	4	B, Mo	5.5 - 6.8	Aca, Abe, Ec, Foco, Pe, Pb, Px, Psm, Xca, Xcc
Cape gooseberry	Physalis peruviana	±1 000 000	-	0.5 - 0.6	20	8	0.6 - 1.3	50 - 100	150 - 200	22 - 24	5 000 - 13 000	5	7 m	21 - 60	45 - 60	410	0.60	1.05	0.90	3	0.35	4.67	5	0.6	4	Fe, B, Mo	6 - 6.8	For, ToMV
Carrot	Daucus carota subsp. sativus	1 000 000 - 1 200 000	2 - 3.5	-	25	6	1 - 1.5	3 - 8	20 - 30	15 - 20	1 500 000 - 25 00 000	25 - 50	70 - 120	90 - 120	30 - 40	200	0.70	1.05	0.95	4	0.75	4.8	3	0.35	5.5	-	5.5 - 6.8	Ad, Cc, Eh, Mi, Mj
Cauliflower	Brassica oleracea (Botrytis Group)	250 000 - 350 000	-	0.3	20 - 22	6 - 10	0.5 - 1.5	40 - 70	60 - 90	15 - 25	16 000 - 40 000	30 - 70	70 - 145	21	45 - 60	440	0.70	1.05	0.95	8.5	1.7	9.22	3.5	0.3	2	B, Fe, Mo	6 - 6.8	Aca, Abe, Ec, Foco, Pe, Pb, Px, Psm, Xca, Xcc
Celery	Apium graveolens (Dulce Group)	1 900 000 - 2 500 000	1 - 2	0.1	20 - 22	4	-	15 - 30	45 - 90	15 - 20	37 000 - 148 000	30	80 - 90	10	90	400	0.70	1.05	1.00	9.3	2.4	2.1	3	0.75	6	B	6 - 6.8	CeMV, F, Psa
Chinese cabbage	Brassica rapa (Pekinensis Group)	350 000 - 400 000	-	0.25	22	9	1	45 - 60	70	15 - 25	16 000 - 40 000	80	70 - 160	35	45 - 60	440	0.70	1.05	0.95	5	0.6	3	3.4	0.5	6.5	B, Mo	5.5 - 6.8	Aca, Abe, Ec, Foco, Pe, Pb, Px, Psm, Xca, Xcc
Chives	Allium schoenoprasum	280 000 - 300 000	3 - 4	-	20	7	1.5	2.25 - 5	25	12 - 24	600 000 - 800 000	60 (4 yr)	11m	4 Seasons	45 - 60	600	0.70	1.00	1.00	3.55	0.63	3.88	3	0.3	3.5	Mg, Cu, Zn	6 - 6.8	Pt, F, Ba
Cucumber - fresh	Cucumis sativus	35 000	1	0.5	25	4	3	45 - 60	120 - 150	20 - 34	12 000 - 16 000	25 - 35	55 - 70	30 - 60	45	420	0.60	1.00	0.75	6.11	1.12	6.89	3.25	0.45	2.5	-	5.5 - 6.8	BPYV, Cca, Ccu, CMV, CVYV, CYSDV, Db, F, For, Fsc, Pa, Pcu, Psl, Pss, Pu, Pxy
Cucumber - hothouse	Cucumis sativus	35 000	-	0.4	25	4	3	25 - 35	150	20 - 34	10 000 - 13 000	40 - 60	60	60 - 70	45	420	0.60	1.00	0.75	6.11	1.12	6.89	4	0.44	2.5	-	5.5 - 6.8	BPYV, Cca, Ccu, CMV, CVYV, CYSDV, Db, F, For, Fsc, Pa, Pcu, Psl, Pss, Pu, Pxy
Cucumber - pickle	Cucumis sativus	40 000	3 - 5	1.0	25	4	3	25	100	20 - 34	40 000	10 - 12	50 - 60	35	45	420	0.50	1.00	0.90	6.11	1.12	6.89	4	0.44	2.5	-	5.5 - 6.8	BPYV, Cca, Ccu, CMV, CVYV, CYSDV, Db, F, For, Fsc, Pa, Pcu, Psl, Pss, Pu, Pxy
Eggplant	Solanum melongena	210 000 - 250 000	-	0.25 - 0.3	29	10	1	46 - 60	60 - 75	22 - 30	22 000 - 35 000	25 - 30	70 - 90	30	75 - 120	600	0.60	1.05	0.90	6.2	0.5	6.2	3.5	0.55	5	-	5.5 - 63.8	F, Mi, Pv, Rs, ToMV, TSWV, Va, Vd
Endive	Cichorium endivia	700 000 - 1 000 000	1 - 1.5	0.4 - 1	15 - 20	8-12	1 - 2	15 - 25	45 - 60	15 - 25	70 000 - 90 000	15 - 20	70	10 - 14	45 - 60	450	0.70	1.00	0.95	2.7	0.34	4.86	4	0.5	4.5	B	5 - 6.8	Aci, Ca, Gc, Pc, Psa
Green mealie	Zea mays (Saccharata Group)	4 000 - 5 000	10 - 25	-	30	7	2	17 - 22	50 - 100	15 - 24	60 000 - 80 000	20 - 25	90 - 120	14	90 - 120	450	0.30	1.20	0.60	11.92	3	3.5	3.2	0.25	2.2	Zn	5.5 - 6.8	Sr, Pste
Kohlrabi	Brassica oleracea (Gongylodes Group)	280 000 - 350 000	-	0.25	20 - 22	6 - 10	1	30	50	15 - 20	60 000 - 100 000	30 - 35	60 -100	30	45 - 60	440	0.70	1.05	0.95	3.4	0.6	3.6	3.4	0.5	4	B, Mo	6 - 6.8	Pp, Gc
Leek	Allium ampeloprasum (Porrum Group)	350 000 - 400 000	2	0.5 - 0.6	24	10	2	15 - 20	40	12 - 24	150 000	15 - 25	130 - 150	14	45 - 60	350	0.70	1.05	0.75	3.55	0.63	3.88	3	0.3	2.6	Mo, Mg, Cu, Zn	6 - 6.8	Ap, Ba, Bs, Foc, IYSV, OMV, Pd, Ppo, Pt, Sv, Tt
Lettuce	Lactuca sativa	800 000 - 900 000	0.6 - 1.5	0.15 - 0.5	20	4	0.6 - 1.3	20 - 30	30 - 60	15 - 20	55 000 - 100 000	25 - 30	65 - 90	21	45 - 60	340	0.70	1.00	0.95	2.7	0.34	4.86	3.4	0.5	2.5	B, Cu, Mo	6 - 6.8	Bl, F, LMV, Mpa, MLBVV, Nr, Pc, Xcvi
Melon - cantaloupe	Cucumis melo (Cantalupensis Group)	35 000 - 40 000	1 - 2	0.2 - 0.4	20	8	2.5 - 5	25 - 40	150 - 250	20 - 24	10 000 26 000	25 - 35	80 - 120	28 -56	90 - 120	420	0.50	0.85	0.60	6.11	1.12	6.89	2.5	0.35	5	-	6 - 6.8	Ac, CMV, Cci, Db, F, Pcu, PRSV, Pxy, WMV, ZYMV
Okra	Abelmoschus esculentus	18 000 - 20 000	6 - 8	-	35	6	2 - 2.5	45	75	22 - 30	30 000	10 - 11	85 - 95	5 - 6 m	60	600	0.50	1.00	0.80	6.2	0.5	6.2	3.5	0.55	4.5	-	5.5 - 6.8	F, Cb, Va
Onion	Allium cepa	280 000 - 300 000	4 - 4.5	5.0	20	7	1.5	5 - 8	20 - 30	12 - 24	500 000 - 800 000	30 - 70	6 - 8 m	-	45 - 60	600	0.70	1.05	0.75	2.85	0.63	3.88	3	0.3	3.5	Mg, Cu, Zn	6 - 6.8	Ap, Ba, Bs, Foc, IYSV, OMV, Pd, Ppo, Pt, Sc, Sv, Tt
Onion - bunching	Allium fistulosum	280 000 - 300 000	17	-	20	7	1.5	2 - 4	45 - 60	12 - 24	1 000 000	10 - 25	8 m	-	45 - 60	600	0.70	1.00	1.00	3.55	0.63	3.88	3	0.3	3.5	Mg, Cu, Zn	6 - 6.8	Ap, Ba, Bs, Foc, IYSV, OMV, Pd, Ppo, Pt, Sc, Sv, Tt
Onion - pickle	Allium cepa	280 000 - 300 000	35	-	20	7	1.5	1 - 2	6 - 10	12 - 24	5 000 000	8 - 10	3 m	-	45 - 60	600	0.70	1.05	0.75	2.85	0.63	3.88	3	0.3	3.5	Mg, Cu, Zn	6 - 6.8	Ap, Ba, Bs, Foc, IYSV, OMV, Pd, Ppo, Pt, Sc, Sv, Tt
Onion - sets	Allium cepa	280 000 - 300 000	35	-	20	7	1.5	1 - 2	6 - 10	12 - 24	5 000 000	30 - 40	6 m	-	45 - 60	600	0.70	1.05	0.75	3.55	0.63	3.88	3	0.3	3.5	Mg, Cu, Zn	6 - 6.8	Ap, Ba, Bs, Foc, IYSV, OMV, Pd, Ppo, Pt, Sc, Sv, Tt
Paprika	Capsicum annuum	150 - 160 000	1.5	0.4 - 0.8	29	10	0.6 - 1.3	Double row 30 x 30	120 - 150	22 - 30	30 000 - 55 000	Dry 2 - 3.5	80	8 - 9 m	60 - 100	650	0.60	1.05	0.90	6.22	0.54	6.22	3.75	0.45	5.5	-	5.5 - 6.8	CMV, F, Fo, Lt, Ma, Mi, Mj, Pc, PMMoV, PVY, Rs, TEV, TMV, ToMV, TSWV, Tt, Xcv
Parsley	Petroselinum crispum	500 000 - 600 000	3 - 5	0.4	24	13	1	10 - 15	30 - 45	15 - 20	150 000 - 300 000	20 - 25	70 - 90	2 - 5 m	45 - 60	335	0.70	1.00	0.95	1.95	0.5	4.35	3.5	0.5	5.2	-	5.5 - 6.8	Psa, Sp
Parsnip	Pastinaca sativa	200 000	2.5 - 3	-	24 - 28	10 - 15	10	7 - 15	30 - 50	15 - 20	130 000 - 500 000	12 - 20	7 m	10	90 - 120	320	0.50	1.05	0.95	2.9	0.5	6.9	3	0.35	5.5	-	6 - 6.8	Aco, Sp
Peas - garden	Pisum sativum	3 000 - 4 000	100 - 120	-	23	8	3 - 5	2 - 7	60 - 90	15 - 20	100 000 - 160 000	3 - 5	60 - 120	10 - 20	60 - 100	320	0.50	1.15	1.10	10	1.5	7.1	4	0.35	2.5	Mg	6 - 6.8	BYMV, Ep, Mp, Pvi, Psp
Peas - snow / mange tout	Pisum sativum	3 000 - 4 000	100 - 120	-	23	8	3 - 5	2 - 7	60 - 90	15 - 20	100 000 - 160 000	5 - 10	60 - 80	10 - 20	60 - 100	340	0.50	1.15	1.10	10	1.5	7.1	4	0.35	2.5	Mg	6 - 6.8	BYMV, Ep, Mp, Pvi, Psp
Pepper - hot	Capsicum annuum	150 000 - 160 000	1.5	0.4 - 0.8	29	10	0.6 - 1.3	40 - 45	45 - 75	22 - 30	30 000 - 55 000	Dry 4 - 7	65 - 95	90	80 - 100	600	0.60	1.05	0.90	6.22	0.54	6.22	3.75	0.45	5.5	B, Ca	5.5 - 6.8	CMV, F, Fo, Lt, Ma, Mi, Mj, Pc, PMMoV, PVY, Rs, TEV, TMV, ToMV, TSWV, Tt, Xcv
Pepper - sweet	Capsicum annuum	150 000 - 160 000	2	0.4 - 0.8	29	10	0.6 - 1.3	40 - 45	45 - 75	22 - 30	20 000 - 55 000	25 - 35	65 - 95	45	70	600	0.60	1.05	0.90	6.22	0.54	6.22	3.75	0.45	5.5	B, Ca	5.5 - 6.8	CMV, F, Fo, Lt, Ma, Mi, Mj, Pc, PMMoV, PVY, Rs, TEV, TMV, ToMV, TSWV, Tt, Xcv
Pumpkin - bush	Cucurbita maxima	4 000 - 5 000	1.5 - 2	1.5 - 2	32	10	3 - 5	60 - 90	120 - 150	20 - 24	7 000 - 10 000	20 - 30	110 - 170	30 - 40	90	420	0.50	1.00	0.80	6.1	1.2	6.8	2.2	0.55	2.9	B, Mo	5.5 - 6.8	Ac, CMV, Db, F, Fsc, Pc, Pcu, PRSV, Pxy, WMV, ZYMV
Pumpkin - ceylon	Cucurbita moschata	4 000 - 5 000	3 - 4.5	-	32	10	3 - 5	50 - 120	200	20 - 24	3 000 - 10 000	20 - 30	110 - 170	30 - 40	90	420	0.50	1.00	0.80	6.1	1.2	6.8	2.2	0.55	2.9	B, Mo	5.5 - 6.8	Ac, CMV, Db, F, Fsc, Pc, Pcu, PRSV, Pxy, WMV, ZYMV
Pumpkin - hubbard	Cucurbita maxima	4 000 - 5 000	2	-	32	10	3 - 5	50 - 90	150 - 200	20 - 24	4 000 - 10 000	20 - 30	110 - 170	30 - 40	90	420	0.50	1.00	0.80	6.1	1.2	6.8	2.2	0.55	2.9	B, Mo	5.5 - 6.8	Ac, CMV, Db, F, Fsc, Pc, Pcu, PRSV, Pxy, WMV, ZYMV
Radicchio - chioggia	Cichorium intybus (Radicchio Group)	600 000 - 700 000	1	0.2	25	8	0.6 - 1.3	15 - 25	45 - 60	15 - 16	60 000 - 88 000	25 -30	65 - 90	21	45 - 60	340	0.70	1.00	0.95	6.0	4	11	3.4	0.5	2.5	B	5 - 6.5	Pa, Pc
Radish - garden	Raphanus sativus	80 000 - 100 000	10 - 12	-	18	6	1.3 - 2.5	2 - 5	20 - 30	15 - 20	500 000 - 1 500 000	10	25 - 35	21 - 30	45 - 60	150	0.70	0.90	0.85	2.9	0.5	6.9	4	0.35	4	Mg	5.5 - 6.8	Pp, Xcc
Rhubarb	Rheum x hybridum	250 000 - 300 000	0.5	0.4 - 0.5	22	8	0.2	90	120	15 - 20	9 000 - 10 000	10 - 12	90 120	10 m	45 - 60	350	0.50	1.00	0.80	11 - 17	0.7	6.2	-	-	-	-	-	Ar
Scorzonera / salsify	Tragopogon porrifolius	75 000 - 90 000	9 - 11	-	20	8	0.6 - 1.3	7	25	15 - 25	500 000 - 600 000	20 - 30	150 -160	-	40 - 60	-	0.50	1.05	0.95	-	-	-	-	-	-	-	-	At
Spinach - baby	Spinacia oleracea	100 000	10 - 14	-	20	8	3	7 - 15	30 - 45	15 - 24	150 000 - 340 000	15 - 20	4 - 5 m	4 - 5 m	45 - 60	375	0.70	1.00	0.95	5	0.6	5	5	0.4	4	Mg, Cu, Mo	6 - 6.8	Ao, CMV, Cv, F, Pfs
Squash - zucchini / patty pan	Cucurbita pepo	8 000	1.5 - 2	-	22	7	2-3	50 - 70	120 - 150	20 - 24	10 000 - 17 000	20 - 25	50	2 m	90	350	0.50	0.95	0.75	7.09	0.43	5.53	3.25	0.65	2.5	B, Mo	5.5 - 6.8	Ac, CMV, Db, F, Fsc, Pc, Pcu, PRSV, Pxy, WMV, ZYMV
Squash - butternut	Cucurbita moschata	9 000	1.5 - 2	-	22	7	2-3	50 - 70	150 - 200	20 - 24	5 000 - 10 000	20 - 30	85 - 90	21	90	350	0.50	1.00	0.80	7.09	0.43	5.53	3.25	0.65	2.5	B, Mo	5.5 - 6.8	Ac, CMV, Db, F, Fsc, Pc, Pcu, PRSV, Pxy, WMV, ZYMV
Sweetcorn Sh2 - super sweet	Zea mays (Saccharata Group)	7 000 - 10 000	8 - 10	-	30	7	2 - 2.5	10 - 20	45 -120	20 - 24	55 000 - 70 000	10 - 20	60 - 80	14	45 - 60	450	0.30	1.20	0.60	10	3	4.5	3.5	0.25	2.2	B, Zn	5.5 - 6.8	Bm, Et, MDMV, Ps, Pste
Swiss chard	Beta vulgaris (Cicla Group)	60 000 - 90 000	5	0.3 - 0.5	20	8	3	7 - 15	30 - 45	15 - 24	150 000 - 340 000	15 - 20	20 - 30	4 - 5 m	45 - 60	375	0.70	1.00	0.95	5	0.6	5	5	0.4	4	Mg, Cu, Mo	6 - 6.8	Cp, Pfb
True potato seed (TPS)	Solanum tuberosum	1 500 000	-	0.022	25	9 - 11	0.3 - 0.6	20 - 30	90 - 150	-	32 000 - 45 000	30 - 60	90 - 120	-	60	400 - 600	0.50	1.15	0.75	±2.68	±0.62	±3.93	-	-	-	Mn, Mo, B, Zn, Cu	4.5	As, MPV, Pi, PLRV, Rs, Sts, TSWV
Tomato - cherry	Solanum lycopersicum	300 000 - 400 000	0.3	0.05 - 0.1	20	8	0.6	30 - 40	150	20 - 30	16 000 - 22 000	15 - 20	65 - 90	60	120	620	0.60	1.15	0.70-0.90	3	0.35	4.67	5	0.6	4	Fe, B, Mo	5.5 - 6.5	Aal, As, Cmm, Ff, F, For, Lt, Ma, Mi, Mj, On, Psc, Pi, Pl, Pp, Pst, Rs, Sbl, Sl, Ss, TMV, ToMV, TSWV,...
Tomato - fresh market / open field	Solanum lycopersicum	300 000 - 400 000	0.3	0.05 - 0.1	20	8 - 14	0.6	27 - 33	150	20 - 30	10 000 - 20 000	60 - 100	75 - 100	±60 - 120	30 - 60	620	0.60	1.15	0.70-0.90	3	0.35	4.67	5	0.6	4	Fe, B, Mo	5.5 - 6.5	-
Tomato - fresh market / tunnel	Solanum lycopersicum	300 000 - 400 000	0.3	0.05 - 0.1	20	8 - 14	0.6	33 - 65	150	20 - 30	20 000 - 25 000	80 - 150	75 - 85	>90	depend on medium	average 5L / m2 per day	0.60	1.15	0.70-0.90	3	0.35	4.67	5	0.6	4	Fe, B, Mo	5.5 - 6.5	-
Tomato - processing	Solanum lycopersicum	300 000 - 400 000	0.3	0.05 - 0.15	20	8	0.6 - 1.3	25 - 30	100 - 150	22 - 24	22 000 - 40 000	60 - 100	90 - 120	14 - 30	45 - 60	620	0.60	1.15	0.70-0.90	3	0.35	4.67	5	0.6	4	Fe, B, Mo	5.5 - 6.5	-
Turnip - garden	Brassica rapa (Rapa Group)	400 000 - 500 000	2 - 3	-	18	8 - 10	1.5	5 - 10	30 - 40	15 - 20	200 000 - 400 000	30 - 35	60 - 100	30	60 - 100	340	0.50	1.10	0.95	2.9	0.5	6.9	4	0.35	4	B	5.5 - 6.8	Cbr, Pcc
Watermelon	Citrullus lanatus	14 000 - 20 000	1 - 2	0.2 - 0.4	30	5	2.5 - 5	90 - 150	180 - 200	22 - 30	6 000 - 35 000	30 - 60	80 - 90	20 - 30	90 - 120	420	0.40	1.00	0.75	6.11	1.12	6.89	3.25	0.45	5	Mo, B	6 - 6.8	Ac, Acu, CMV, Co, Db, F, PRSV, Pxy, Vd, WMV, ZYMV
Watermelon - triploid	Citrullus lanatus	14 000 - 20 000	1	0.5	30	5	2.5 - 5	60 - 90	150 - 250	22 - 30	8 000 - 9 000	30 - 60	70 - 95	20 - 30	90 - 120	420	0.40	1.00	0.75	6.11	1.12	6.89	3.25	0.45	5	Mo, B	6 - 6.8	Ac, Acu, CMV, Co, Db, F, PRSV, Pxy, Vd, WMV, ZYMV
Witloof / chicory	Cichorium intybus (Witloof Group)	600 000 - 700 000	-	1.5	25	8	0.6 - 1.3	12 - 15	15 - 18	15 - 20	400 000	12 - 15	4 m	7 m	30 - 60	320	0.70	1.00	0.95	2.7	0.34	4.86	3.4	0.5	2.5	B, Cu, Mo	6.68	-

INDICATIVE SOUTH AFRICAN SOWING WINDOWS - CHECK CURRENT LOCAL FORECAST

Crop group	Highveld	Middleveld	Lowveld	N. Cape + Karoo	KZN Midlands	E. Cape + Karoo	W. Cape + S. Coast	KZN Coast	Depth	In-row
Artichoke (globe) Asparagus Bean (broad)	Jan Oct-Dec Apr-May	Jan Oct-Dec Apr-May	Jan-Feb Aug-Sept Apr-May	Jan Oct-Dec April	Jan Oct-Dec Apr-May	Jan Oct-Dec Apr-May	Jan Oct-Dec Apr-Jun	Jan-Feb Aug-Sept Apr-May	2 1 5	100 30-45 20-30
Bean (dwarf) Bean (runner) Beetroot	Aug-Jan Aug-Dec Aug-Oct Jan-Mar	Aug-Feb Aug-Jan Aug-Apr	Feb-Sept Feb-Aug Feb-Jul	Aug-Jan Aug-Dec Aug-Oct Feb-Mar	Aug-Jan Aug-Dec Aug-Apr	Oct-Jan Oct-Dec Jul-Feb	Oct-Feb Sept-Jan Jul-Nov Feb-Apr	Feb-Sept Feb-Aug Feb-Jul	4 4 2	5 10 7
Brinjal or egg-fruit Broccoli Brussels sprouts Cabbage (Chinese)	Aug-Oct Dec-Feb Jan-Feb Feb-Mar	Aug-Nov Jan-Feb Jan-Feb Feb-Mar	Jan-Sept	Aug-Oct Dec-Feb Jan-Feb Feb-Mar	Aug-Oct Dec-Feb Jan-Feb Feb-Mar	Aug-Oct Dec-Jan Jan-Feb Feb-Mar	Aug-Oct Dec-Jan Jan-Feb Feb-Mar	Jan-Sept 2 cm	1 45 1 1	50 60 50 45-60
Cabbage Capsicum (sweet pepper and chilies)	Nov-Feb Jul-Aug Aug-Oct	Feb-Apr Aug-Sept Aug-Oct	Feb-Jun Jan-Apr Jul-Oct	Nov-Feb Aug-Oct	Aug-Feb Sept-Oct	Aug-Apr Aug-Oct	Nov-Apr Aug-Oct	Feb-Jun Jan-Apr Jul-Oct	2 1	35-50 40-60
Carrot Cauliflower (early) Cauliflower (main crop)	Aug-Oct Jan-Mar Nov-Dec Dec-Feb	Aug-Oct Jan-Mar Nov-Dec Feb	Feb-Aug Feb-Mar	Aug-Oct Jan-Mar Nov-Dec Nov-Feb	Aug-Apr Dec-Feb Dec-Mar	Jul-Apr Dec-Jan Dec-Mar	Aug-Nov Jan-Apr Nov-Dec Dec-Jan	Feb-Aug Feb-Mar	1 1 1	5 45 45
Cauliflower (late) Celery Cucumber (open culture)	Mar Sept-Dec Sept-Dec	Feb-Mar Aug-Sept Feb-Mar Aug-Jan	Feb-Mar Feb-Sept	Sept-Oct Sept-Dec	Feb-Mar Aug-Sept Sept-Dec	Mar-Apr Feb-Mar Aug-Sept Jul-Feb	Feb-Apr Feb-Oct Sept-Nov	Feb-Mar Feb-Sept	1 1 2	45 30 50-70
Kohlrabi Leeks Lettuce	Jan-Mar Jan-Mar Jan-Mar Aug-Sept	Feb-Apr Feb-Mar Jan-Sept	Mar-May Mar-Apr Mar-May	Jan-Mar Jan-Feb Jan-Mar Aug-Sept	Feb-May Feb-Mar Jan-Mar Aug-Sept	Jan-Mar Feb-Apr Jan-Apr Jul-Oct	Jan-Mar Mar-May Aug-May	Mar-May Mar-Apr Mar-May	1 1 1	30 10 10
Mealies (green and sweetcorn) Melons (sweet) Melon (water)	Sept-Nov Sept-Nov Sept-Nov	Aug-Dec Aug-Dec Aug-Sept	Jul-Nov Jun-Aug Jul-Aug	Aug-Nov Sept-Oct Sept-Oct	Sept-Nov Sept-Oct	Sept-Dec Sept-Oct Sept-Oct	Aug-Dec Sept-Dec Sept-Oct	Jul-Nov Jun-Aug Jul-Aug	5 2 5	90 20-30 45-60
Onion Onion (pickling) Parsley	Feb-Mar Aug-Sept Sept-Oct Feb-Apr	Feb-Mar Aug-Sept Aug-Oct Mar-Apr	Feb-Mar Aug-Sept Mar-May Aug-Sept	Mar-Jul Aug-Sept Feb-Mar Sept-Oct	Feb-Mar Aug-Sept Aug-Sept Dec-Jan	Mar-May Aug-Sept Aug-Dec	Apr-May Aug-Sept Mar-Nov	Feb-Mar Aug-Sept Mar-May Aug-Sept	1 1 1	7 2 10-12
Parsnip Pea	Aug-Oct Jan-Mar Jul-Sept	Jul-Oct Feb-Apr Apr-Jun	Mar-Apr Mar-Jun	Jan-Mar Jul-Aug	Jul-Sept Jan-Apr Jun-Jul	Aug-Oct Feb-Apr May-Jul	Mar-Apr Aug-Oct Apr-Aug	Mar-Apr Mar-Jun	1 3-7	15 5-7
Pumpkin and hubbard squash Radish Rhubarb Spinach Squash (bush types)...	Sept-Nov Aug-Nov Feb-Apr Aug-Sept Aug-Apr...	Aug-Dec Jul-Oct Feb-Mar Aug-Sept Aug-Apr...	Feb-Aug Feb-Sept Mar-Apr Feb-Jun Feb-Aug...	Sept-Dec Aug-Oct Jan-Apr Aug-Sept Aug-Sept	Sept-Dec Aug-Oct Jan-Apr Aug-Sept Aug-Apr...	Sept-Nov Aug-May Aug-Oct Aug-Sept Sept-Dec...	Sept-Nov Mar-Oct Aug-Sept Mar-May Aug-Jan...	Feb-Aug Feb-Sept Mar-Apr Feb-Jun Feb-Aug...	2 2 2 2 2...	50-100 5 90 20 50-70...
Swiss chard Tomato (open culture) Turnip	Aug-Oct Jan-Mar Aug-Nov Aug-Sept Jan-Apr	Jul-Oct Jan-Apr Jul-Dec Jul-Sept Jan-Apr	Feb-Aug Jan-Jul Feb-Jun	Jan-Mar Jul-Oct Aug-Nov Aug-Sept Jan-Apr	Aug-Oct Jan-Mar Aug-Nov Jan-Apr Aug-Sept	Aug-Oct Jan-Mar Aug-Oct Jul-Aug Feb-Mar	Mar-Apr Aug-Sept Jul-Sept Mar-Nov	Feb-Aug Jan-Jul Feb-Jun	2 1 1	20-30 40-50 8

DISEASE / DISORDER SHORTHAND - DIAGNOSE BEFORE TREATMENT

Aal Alternaria stem canker
Abe Black spot
Ac Bacterial fruit blotch
Aca White rust
Aci Alternaria leaf spot
Aco Alternaria
Acu Alternaria leaf blight
Ad Alternaria leaf blight
Ao White rust
Ap Purple blotch
Ar Rhubarb leaf spot
As Early blight
At White rust
Ba Botrytis neck rot
BCMV Bean common mosaic
BCTV Beet curly top
Bl Downy mildew
Bm Southern corn leaf blight
BNYVV Rhizomania
BPYV Beet pseudo yellows virus
Bs Botrytis leaf blight
BYMV Bean yellow mosaic
Ca Centrospora leaf spot
Cb Leaf spot
Cbr Cercospora leaf spot
Cc Cercospora leaf blight
Cca Corynespora blight and target spot
Cci Cercospora leaf spot
Ccu Scab and gummosis
CeMV Celery mosaic
Cl Anthracnose
Cmm Bacterial canker
CMV Cucumber mosaic
Co Anthracnose
Cv Leaf spot
CVYV Cucumber vein yellowing
CYSDV Cucurbit yellow stunting disorder
Db Gummy stem blight
Ec Powdery mildew
Eh Powdery mildew
Ep Powdery mildew
Et Northern corn leaf blight
F Fusarium wilt
Ff Leaf mold
Fo Western Flower Thrips
Fob Fusarium yellows
Foc Basal rot
Foco Fusarium yellows
For Fusarium crown and root rot
Fsc Crown and root rot
Gc Powdery mildew
IYSV Iris Yellow Spot Virus
LMV Lettuce mosaic
Lt Powdery mildew
Ma Root-knot nematode
MDMV Maize dwarf mosaic
Mi Root-knot nematode
Mj Root-knot nematode
MLBVV Lettuce big vein
Mp Ascochyta blight
Mpa Anthracnose
MPV Mosaic Potato Virus
Nr Lettuce leaf aphid
OMV Onion Mosaic Virus
On Powdery mildew
Pa Pythium rootrot
Pb Clubroot
Pc Fruit and root rot
Pcc White spot
Pcu Downy mildew
Pd Downy mildew
Pe Downy mildew
Pfb Downy mildew
Pfs Downy mildew
Pi Late blight
Pl Corky root rot
PLRV Potato leaf roll virus
PMMoV Pepper mild mottle
Pp Buckeye fruit and root rot
Ppo White tip of leek
PRSV Papaya ringspot
Ps Common rust
Psa Bacterial leaf spot
Psc Pith necrosis
Psl Angular leaf spot
Psm Bacterial leaf spot, Peppery leaf spot
Psp Bacterial blight
Psph Halo blight
Pss Angular leaf spot
Pst Bacterial speck
Pste Stewart's wilt
Pt Pink root
Pu Pythium rootrot
Pv Phomopsis rot
Pvi Downy mildew
PVY Potato Y
Px Diamond back moth
Pxy Powdery mildew
Rs Bacterial wilt
Sbl Gray leaf spot
Sc White rot
Scl White mold
Sl Gray leaf spot
Sp Septoria leaf spot
Sr Head smut
Ss Gray leaf spot
Sts Common scab
Sv Stemphylium leaf blight
TEV Tobacco etch
TMV Tobacco mosaic
ToMV Tomato mosaic
TSWV Tomato spotted wilt
Tt Thrips
TYLCV Tomato yellow leaf curl
Ua Rust
Va Verticillium wilt
Vd Verticillium wilt
WMV Watermelon mosaic
Xca Leaf spot
Xcc Black rot
Xcv Bacterial spot
Xcvi Bacterial spot
ZYMV Zucchini yellows

2026 UPDATE METHOD + EVIDENCE STATUS

1 PLANTING
Use the regional window as a starting point. Check the latest SAWS frost, heat, rainfall and seasonal outlook plus cultivar days-to-maturity.

2 WATER
Schedule with ETc = Kc x local ETo. Subtract effective rain, account for soil-water change, and divide net demand by measured system efficiency.

3 NUTRITION
NPK removal and leaf norms are screening values only. Base applications on accredited soil, irrigation-water and leaf analysis.

4 CROP HEALTH
Codes are rapid-reference shorthand, not a diagnosis. Confirm the organism and use only current registered products exactly as labelled.

EVIDENCE KEY

Updated: taxonomy + Kc irrigation method
Reviewed: SA crop and sowing guidance
Verify: cultivar seed counts, nutrient/leaf norms, disease codes

AUTHORITATIVE SOURCES CHECKED 22 AUG 2026

ARC Vegetable Production Guidelines - arc.agric.za/arc-vopi
ARC Climate-Smart Vegetable Production - arc.agric.za/arc-iscw
FAO-56 crop coefficients - fao.org/4/x0490e/x0490e0b.htm
SAWS agricultural services - weathersa.co.za/business
Kew Plants of the World Online - powo.science.kew.org

FIELD CONVERSIONS

1 ha = 10,000 m² = 2.471 ac | 1 mm/ha = 10 m³ | 1 t = 1,000 kg
1 in = 2.54 cm | 1 L = 1,000 ml | 1 imp gal = 4.546 L

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