

$$\text{VPD} = \text{es}(\text{T}_{\text{leaf}}) - (\text{RH}/100) \times \text{es}(\text{T}_{\text{air}})$$

$$\text{es}(\text{T}) = 0.6108 \times \exp((17.27 \times \text{T}) / (\text{T} + 237.3))$$
 — Tetens equation, kPa

$$\text{T}_{\text{leaf}} = \text{T}_{\text{air}} + 0$$

AIR TEMP °F / °C		RELATIVE HUMIDITY %												
		30	35	40	45	50	55	60	65	70	75	80	85	90
62	16.7	1.33	1.23	1.14	1.04	0.95	0.85	0.76	0.66	0.57	0.47	0.38	0.28	0.19
63	17.2	1.38	1.28	1.18	1.08	0.98	0.88	0.79	0.69	0.59	0.49	0.39	0.29	0.20
64	17.8	1.42	1.32	1.22	1.12	1.02	0.92	0.81	0.71	0.61	0.51	0.41	0.31	0.20
65	18.3	1.48	1.37	1.26	1.16	1.05	0.95	0.84	0.74	0.63	0.53	0.42	0.32	0.21
66	18.9	1.53	1.42	1.31	1.20	1.09	0.98	0.87	0.76	0.65	0.55	0.44	0.33	0.22
67	19.4	1.58	1.47	1.36	1.24	1.13	1.02	0.90	0.79	0.68	0.56	0.45	0.34	0.23
68	20.0	1.64	1.52	1.40	1.29	1.17	1.05	0.94	0.82	0.70	0.58	0.47	0.35	0.23
69	20.6	1.69	1.57	1.45	1.33	1.21	1.09	0.97	0.85	0.73	0.60	0.48	0.36	0.24
70	21.1	1.75	1.63	1.50	1.38	1.25	1.13	1.00	0.88	0.75	0.63	0.50	0.38	0.25
71	21.7	1.81	1.68	1.55	1.42	1.30	1.17	1.04	0.91	0.78	0.65	0.52	0.39	0.26
72	22.2	1.88	1.74	1.61	1.47	1.34	1.21	1.07	0.94	0.80	0.67	0.54	0.40	0.27
73	22.8	1.94	1.80	1.66	1.52	1.39	1.25	1.11	0.97	0.83	0.69	0.55	0.42	0.28
74	23.3	2.01	1.86	1.72	1.58	1.43	1.29	1.15	1.00	0.86	0.72	0.57	0.43	0.29
75	23.9	2.07	1.93	1.78	1.63	1.48	1.33	1.19	1.04	0.89	0.74	0.59	0.44	0.30
76	24.4	2.15	1.99	1.84	1.69	1.53	1.38	1.23	1.07	0.92	0.77	0.61	0.46	0.31
77	25.0	2.22	2.06	1.90	1.74	1.58	1.43	1.27	1.11	0.95	0.79	0.63	0.48	0.32
78	25.6	2.29	2.13	1.96	1.80	1.64	1.47	1.31	1.15	0.98	0.82	0.65	0.49	0.33
79	26.1	2.37	2.20	2.03	1.86	1.69	1.52	1.35	1.18	1.02	0.85	0.68	0.51	0.34
80	26.7	2.45	2.27	2.10	1.92	1.75	1.57	1.40	1.22	1.05	0.87	0.70	0.52	0.35
81	27.2	2.53	2.35	2.17	1.99	1.81	1.63	1.44	1.26	1.08	0.90	0.72	0.54	0.36
82	27.8	2.61	2.43	2.24	2.05	1.87	1.68	1.49	1.31	1.12	0.93	0.75	0.56	0.37
83	28.3	2.70	2.51	2.31	2.12	1.93	1.73	1.54	1.35	1.16	0.96	0.77	0.58	0.39
84	28.9	2.79	2.59	2.39	2.19	1.99	1.79	1.59	1.39	1.19	1.00	0.80	0.60	0.40
85	29.4	2.88	2.67	2.47	2.26	2.05	1.85	1.64	1.44	1.23	1.03	0.82	0.62	0.41
86	30.0	2.97	2.76	2.55	2.33	2.12	1.91	1.70	1.49	1.27	1.06	0.85	0.64	0.42
87	30.6	3.07	2.85	2.63	2.41	2.19	1.97	1.75	1.53	1.31	1.10	0.88	0.66	0.44
88	31.1	3.16	2.94	2.71	2.49	2.26	2.03	1.81	1.58	1.36	1.13	0.90	0.68	0.45

under 0.40

0.40 – 0.79

0.80 – 1.19

1.20 – 1.59

1.60 and up

TOO LOWAir near saturation. “dew” =
condensing on the leaf**CLONES & SEEDLINGS**Soft transpiration for un-rooted
stock**VEGETATIVE**

The working band for active growth

FLOWERDrier finish — tighter flower, less
botrytis**STRESS**Stomata close, photosynthesis
stops**HOW TO READ IT**Air temperature down the left, humidity across the top.
The number where they meet is your leaf VPD in kPa.
“dew” = water condensing on the leaf.**THIS SHEET'S OFFSET**Leaf at air temperature. Lights off, or a leaf that has
stopped transpiring. Sheet 5 shows how to measure your
own.**PRINT IT RIGHT**Print at 100% / Actual Size, not Fit to Page. Readable
laminated, and it survives a black-and-white photocopy.

$$\text{VPD} = \text{es}(\text{T}_{\text{leaf}}) - (\text{RH}/100) \times \text{es}(\text{T}_{\text{air}})$$

$$\text{es}(\text{T}) = 0.6108 \times \exp((17.27 \times \text{T}) / (\text{T} + 237.3)) \quad \text{— Tetens equation, kPa}$$

$$\text{T}_{\text{leaf}} = \text{T}_{\text{air}} - 1.8 \text{ °F}$$

AIR TEMP °F / °C		RELATIVE HUMIDITY %												
		30	35	40	45	50	55	60	65	70	75	80	85	90
62	16.7	1.21	1.12	1.02	0.93	0.83	0.74	0.64	0.55	0.45	0.36	0.26	0.17	0.07
63	17.2	1.25	1.16	1.06	0.96	0.86	0.76	0.67	0.57	0.47	0.37	0.27	0.17	0.08
64	17.8	1.30	1.20	1.10	0.99	0.89	0.79	0.69	0.59	0.49	0.38	0.28	0.18	0.08
65	18.3	1.35	1.24	1.14	1.03	0.93	0.82	0.71	0.61	0.50	0.40	0.29	0.19	0.08
66	18.9	1.39	1.29	1.18	1.07	0.96	0.85	0.74	0.63	0.52	0.41	0.30	0.19	0.09
67	19.4	1.44	1.33	1.22	1.11	0.99	0.88	0.77	0.65	0.54	0.43	0.32	0.20	0.09
68	20.0	1.50	1.38	1.26	1.15	1.03	0.91	0.79	0.68	0.56	0.44	0.33	0.21	0.09
69	20.6	1.55	1.43	1.31	1.19	1.06	0.94	0.82	0.70	0.58	0.46	0.34	0.22	0.10
70	21.1	1.60	1.48	1.35	1.23	1.10	0.98	0.85	0.73	0.60	0.48	0.35	0.23	0.10
71	21.7	1.66	1.53	1.40	1.27	1.14	1.01	0.88	0.75	0.62	0.49	0.36	0.23	0.10
72	22.2	1.72	1.58	1.45	1.32	1.18	1.05	0.91	0.78	0.65	0.51	0.38	0.24	0.11
73	22.8	1.78	1.64	1.50	1.36	1.22	1.08	0.95	0.81	0.67	0.53	0.39	0.25	0.11
74	23.3	1.84	1.69	1.55	1.41	1.26	1.12	0.98	0.83	0.69	0.55	0.40	0.26	0.12
75	23.9	1.90	1.75	1.60	1.46	1.31	1.16	1.01	0.86	0.72	0.57	0.42	0.27	0.12
76	24.4	1.97	1.81	1.66	1.51	1.35	1.20	1.05	0.89	0.74	0.59	0.43	0.28	0.13
77	25.0	2.03	1.88	1.72	1.56	1.40	1.24	1.08	0.92	0.77	0.61	0.45	0.29	0.13
78	25.6	2.10	1.94	1.78	1.61	1.45	1.28	1.12	0.96	0.79	0.63	0.47	0.30	0.14
79	26.1	2.17	2.00	1.84	1.67	1.50	1.33	1.16	0.99	0.82	0.65	0.48	0.31	0.14
80	26.7	2.25	2.07	1.90	1.72	1.55	1.37	1.20	1.02	0.85	0.67	0.50	0.32	0.15
81	27.2	2.32	2.14	1.96	1.78	1.60	1.42	1.24	1.06	0.88	0.70	0.52	0.34	0.15
82	27.8	2.40	2.21	2.03	1.84	1.65	1.47	1.28	1.09	0.91	0.72	0.53	0.35	0.16
83	28.3	2.48	2.29	2.09	1.90	1.71	1.52	1.32	1.13	0.94	0.75	0.55	0.36	0.17
84	28.9	2.56	2.36	2.16	1.96	1.77	1.57	1.37	1.17	0.97	0.77	0.57	0.37	0.17
85	29.4	2.65	2.44	2.23	2.03	1.82	1.62	1.41	1.21	1.00	0.80	0.59	0.39	0.18
86	30.0	2.73	2.52	2.31	2.10	1.88	1.67	1.46	1.25	1.04	0.82	0.61	0.40	0.19
87	30.6	2.82	2.60	2.38	2.17	1.95	1.73	1.51	1.29	1.07	0.85	0.63	0.41	0.19
88	31.1	2.91	2.69	2.46	2.24	2.01	1.78	1.56	1.33	1.11	0.88	0.65	0.43	0.20

under 0.40

0.40 – 0.79

0.80 – 1.19

1.20 – 1.59

1.60 and up

TOO LOWAir near saturation. “dew” =
condensing on the leaf**CLONES & SEEDLINGS**Soft transpiration for un-rooted
stock**VEGETATIVE**

The working band for active growth

FLOWERDrier finish — tighter flower, less
botrytis**STRESS**Stomata close, photosynthesis
stops**HOW TO READ IT**Air temperature down the left, humidity across the top.
The number where they meet is your leaf VPD in kPa.
“dew” = water condensing on the leaf.**THIS SHEET'S OFFSET**Light radiant load, modest airflow. Common under
low-intensity LED. Sheet 5 shows how to measure your
own.**PRINT IT RIGHT**Print at 100% / Actual Size, not Fit to Page. Readable
laminated, and it survives a black-and-white photocopy.

START HERE · MOST ROOMS

$$\text{VPD} = \text{es}(\text{T}_{\text{leaf}}) - (\text{RH}/100) \times \text{es}(\text{T}_{\text{air}})$$

$$\text{es}(\text{T}) = 0.6108 \times \exp((17.27 \times \text{T}) / (\text{T} + 237.3)) \quad \text{— Tetens equation, kPa}$$

$$\text{T}_{\text{leaf}} = \text{T}_{\text{air}} - 3.6 \text{ °F}$$

AIR TEMP °F / °C		RELATIVE HUMIDITY %												
		30	35	40	45	50	55	60	65	70	75	80	85	90
62	16.7	1.10	1.01	0.91	0.82	0.72	0.63	0.53	0.44	0.34	0.25	0.15	0.06	dew
63	17.2	1.14	1.04	0.94	0.85	0.75	0.65	0.55	0.45	0.35	0.26	0.16	0.06	dew
64	17.8	1.18	1.08	0.98	0.88	0.77	0.67	0.57	0.47	0.37	0.27	0.16	0.06	dew
65	18.3	1.23	1.12	1.01	0.91	0.80	0.70	0.59	0.49	0.38	0.28	0.17	0.07	dew
66	18.9	1.27	1.16	1.05	0.94	0.83	0.72	0.61	0.51	0.40	0.29	0.18	0.07	dew
67	19.4	1.32	1.20	1.09	0.98	0.86	0.75	0.64	0.52	0.41	0.30	0.19	0.07	dew
68	20.0	1.36	1.25	1.13	1.01	0.89	0.78	0.66	0.54	0.43	0.31	0.19	0.08	dew
69	20.6	1.41	1.29	1.17	1.05	0.93	0.81	0.69	0.56	0.44	0.32	0.20	0.08	dew
70	21.1	1.46	1.34	1.21	1.09	0.96	0.84	0.71	0.59	0.46	0.33	0.21	0.08	dew
71	21.7	1.51	1.38	1.25	1.12	1.00	0.87	0.74	0.61	0.48	0.35	0.22	0.09	dew
72	22.2	1.57	1.43	1.30	1.16	1.03	0.90	0.76	0.63	0.49	0.36	0.23	0.09	dew
73	22.8	1.62	1.48	1.34	1.21	1.07	0.93	0.79	0.65	0.51	0.37	0.24	0.10	dew
74	23.3	1.68	1.54	1.39	1.25	1.11	0.96	0.82	0.68	0.53	0.39	0.25	0.10	dew
75	23.9	1.74	1.59	1.44	1.29	1.14	1.00	0.85	0.70	0.55	0.40	0.25	0.11	dew
76	24.4	1.80	1.64	1.49	1.34	1.18	1.03	0.88	0.72	0.57	0.42	0.26	0.11	dew
77	25.0	1.86	1.70	1.54	1.38	1.23	1.07	0.91	0.75	0.59	0.43	0.28	0.12	dew
78	25.6	1.92	1.76	1.60	1.43	1.27	1.10	0.94	0.78	0.61	0.45	0.29	0.12	dew
79	26.1	1.99	1.82	1.65	1.48	1.31	1.14	0.97	0.80	0.64	0.47	0.30	0.13	dew
80	26.7	2.06	1.88	1.71	1.53	1.36	1.18	1.01	0.83	0.66	0.48	0.31	0.13	dew
81	27.2	2.13	1.95	1.77	1.58	1.40	1.22	1.04	0.86	0.68	0.50	0.32	0.14	dew
82	27.8	2.20	2.01	1.83	1.64	1.45	1.27	1.08	0.89	0.71	0.52	0.33	0.15	dew
83	28.3	2.27	2.08	1.89	1.69	1.50	1.31	1.12	0.92	0.73	0.54	0.35	0.15	dew
84	28.9	2.35	2.15	1.95	1.75	1.55	1.35	1.15	0.96	0.76	0.56	0.36	0.16	dew
85	29.4	2.43	2.22	2.02	1.81	1.60	1.40	1.19	0.99	0.78	0.58	0.37	0.17	dew
86	30.0	2.51	2.29	2.08	1.87	1.66	1.45	1.23	1.02	0.81	0.60	0.39	0.17	dew
87	30.6	2.59	2.37	2.15	1.93	1.71	1.49	1.28	1.06	0.84	0.62	0.40	0.18	dew
88	31.1	2.68	2.45	2.22	2.00	1.77	1.54	1.32	1.09	0.87	0.64	0.41	0.19	dew

under 0.40

0.40 – 0.79

0.80 – 1.19

1.20 – 1.59

1.60 and up

TOO LOW

Air near saturation. "dew" =
condensing on the leaf

CLONES & SEEDLINGS

Soft transpiration for un-rooted
stock

VEGETATIVE

The working band for active growth

FLOWER

Drier finish — tighter flower, less
botrytis

STRESS

Stomata close, photosynthesis
stops

HOW TO READ IT

Air temperature down the left, humidity across the top.
The number where they meet is your leaf VPD in kPa.
"dew" = water condensing on the leaf.

THIS SHEET'S OFFSET

The usual case: LED at full intensity, good airflow, healthy
transpiration. Sheet 5 shows how to measure your own.

PRINT IT RIGHT

Print at 100% / Actual Size, not Fit to Page. Readable
laminated, and it survives a black-and-white photocopy.

$$\text{VPD} = \text{es}(\text{T}_{\text{leaf}}) - (\text{RH}/100) \times \text{es}(\text{T}_{\text{air}})$$

$$\text{es}(\text{T}) = 0.6108 \times \exp((17.27 \times \text{T}) / (\text{T} + 237.3))$$
 — Tetens equation, kPa

$$\text{T}_{\text{leaf}} = \text{T}_{\text{air}} - 5.4 \text{ °F}$$

AIR TEMP °F / °C	RELATIVE HUMIDITY %												
	30	35	40	45	50	55	60	65	70	75	80	85	90
62 16.7	1.00	0.90	0.81	0.71	0.62	0.52	0.43	0.33	0.24	0.14	0.05	dew	dew
63 17.2	1.03	0.93	0.84	0.74	0.64	0.54	0.44	0.34	0.25	0.15	0.05	dew	dew
64 17.8	1.07	0.97	0.87	0.77	0.66	0.56	0.46	0.36	0.26	0.15	0.05	dew	dew
65 18.3	1.11	1.00	0.90	0.79	0.69	0.58	0.48	0.37	0.27	0.16	0.06	dew	dew
66 18.9	1.15	1.04	0.93	0.82	0.71	0.61	0.50	0.39	0.28	0.17	0.06	dew	dew
67 19.4	1.19	1.08	0.97	0.85	0.74	0.63	0.52	0.40	0.29	0.18	0.06	dew	dew
68 20.0	1.24	1.12	1.00	0.89	0.77	0.65	0.53	0.42	0.30	0.18	0.07	dew	dew
69 20.6	1.28	1.16	1.04	0.92	0.80	0.68	0.56	0.43	0.31	0.19	0.07	dew	dew
70 21.1	1.33	1.20	1.08	0.95	0.83	0.70	0.58	0.45	0.33	0.20	0.08	dew	dew
71 21.7	1.37	1.25	1.12	0.99	0.86	0.73	0.60	0.47	0.34	0.21	0.08	dew	dew
72 22.2	1.42	1.29	1.16	1.02	0.89	0.75	0.62	0.49	0.35	0.22	0.08	dew	dew
73 22.8	1.47	1.34	1.20	1.06	0.92	0.78	0.64	0.50	0.37	0.23	0.09	dew	dew
74 23.3	1.53	1.38	1.24	1.10	0.95	0.81	0.67	0.52	0.38	0.24	0.09	dew	dew
75 23.9	1.58	1.43	1.28	1.14	0.99	0.84	0.69	0.54	0.40	0.25	0.10	dew	dew
76 24.4	1.64	1.48	1.33	1.18	1.02	0.87	0.72	0.56	0.41	0.26	0.10	dew	dew
77 25.0	1.69	1.54	1.38	1.22	1.06	0.90	0.74	0.58	0.43	0.27	0.11	dew	dew
78 25.6	1.75	1.59	1.43	1.26	1.10	0.93	0.77	0.61	0.44	0.28	0.12	dew	dew
79 26.1	1.81	1.64	1.47	1.31	1.14	0.97	0.80	0.63	0.46	0.29	0.12	dew	dew
80 26.7	1.88	1.70	1.53	1.35	1.18	1.00	0.83	0.65	0.48	0.30	0.13	dew	dew
81 27.2	1.94	1.76	1.58	1.40	1.22	1.04	0.86	0.68	0.50	0.31	0.13	dew	dew
82 27.8	2.01	1.82	1.63	1.45	1.26	1.07	0.89	0.70	0.51	0.33	0.14	dew	dew
83 28.3	2.08	1.88	1.69	1.50	1.30	1.11	0.92	0.73	0.53	0.34	0.15	dew	dew
84 28.9	2.15	1.95	1.75	1.55	1.35	1.15	0.95	0.75	0.55	0.35	0.16	dew	dew
85 29.4	2.22	2.01	1.81	1.60	1.40	1.19	0.98	0.78	0.57	0.37	0.16	dew	dew
86 30.0	2.29	2.08	1.87	1.66	1.44	1.23	1.02	0.81	0.60	0.38	0.17	dew	dew
87 30.6	2.37	2.15	1.93	1.71	1.49	1.27	1.06	0.84	0.62	0.40	0.18	dew	dew
88 31.1	2.45	2.22	2.00	1.77	1.54	1.32	1.09	0.87	0.64	0.41	0.19	dew	dew

under 0.40

0.40 – 0.79

0.80 – 1.19

1.20 – 1.59

1.60 and up

TOO LOW

Air near saturation. "dew" =
condensing on the leaf

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Drier finish — tighter flower, less
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STRESS

Stomata close, photosynthesis
stops

HOW TO READ IT

Air temperature down the left, humidity across the top.
The number where they meet is your leaf VPD in kPa.
"dew" = water condensing on the leaf.

THIS SHEET'S OFFSET

Vigorous transpiration — high airflow, dry air, a fully open
canopy. Sheet 5 shows how to measure your own.

PRINT IT RIGHT

Print at 100% / Actual Size, not Fit to Page. Readable
laminated, and it survives a black-and-white photocopy.

01 • READING THE CHART

- 1 Measure air temperature and relative humidity where the canopy is, not at the controller.
- 2 Pick the sheet whose leaf-temperature offset matches your room. If you have never measured yours, use -2 °C.
- 3 Find the temperature down the left, the humidity across the top, and read the kPa where they meet. "dew" means the leaf is at or below the dew point and water is condensing on it.
- 4 Compare that number against the band your crop is in right now. The band legend at the foot of every sheet names them.

02 • WHY LEAF TEMPERATURE, NOT AIR

A plant does not transpire against the air's temperature. Water evaporates from inside the leaf, so the pressure pushing it out is the saturation pressure at LEAF temperature. The air only supplies the second half of the equation — how much vapor it is already carrying.

Transpiration cools a leaf, and light warms it. Under LED with real airflow the net is usually 1–3 °C below air. That gap is not a rounding error: at 25 °C and 60% RH, each 1 °C of leaf offset moves VPD by about 0.18 kPa. Guessing the offset wrong is a larger error than reading humidity wrong by 5 points.

A chart drawn at air temperature — which is most of them — overstates your VPD by roughly 0.2–0.5 kPa in a lit room.

03 • WHAT OFFSET TO SET

SITUATION	OFFSET °C	WHY
Lights off / dark period	0 to -0.5	No radiant load. The leaf sits at, or a little under, air temperature.
Low-intensity LED, gentle airflow	-0.5 to -1.5	Modest transpiration; the leaf runs slightly cool.
Full-intensity LED, good airflow	-1.5 to -2.5	The common case in a working indoor room. Start here.
High airflow, dry air, open canopy	-2.5 to -3.5	Vigorous transpiration pulls leaf temperature well below air.
HPS / high radiant load	-1.0 to +2.0	Radiant heat can push a leaf ABOVE air temperature. Measure, do not assume.
Water stress, closed stomata	0 to +3.0	A leaf that has stopped transpiring stops cooling itself. Offsets go positive.

04 • MEASURING YOUR OWN OFFSET

Use an infrared thermometer set to emissivity 0.95. Aim at a fully expanded, well-lit leaf from about 30 cm, slightly off perpendicular so you are not reading your own reflection. Average five leaves across the zone, mid-photoperiod, and subtract the air temperature at canopy height. Avoid the growing point and leaf edges — both run warm. Re-measure when you change light intensity, airflow, or crop stage.

05 • THE REST OF THE PACK

Sheets 1–4 are the same chart at leaf offsets of 0, -1, -2 and -3 °C. Editions exist for cannabis and general use, greenhouse produce, and leafy greens and herbs — each in °F and °C, for US Letter and A4. All of them are free and ungated at ageyetechnologies.com/vpd-chart, as is ageyetechnologies.com/vpd-calculator, the tool that generated them.

06 • TARGET VPD BY CROP AND STAGE

CROP	STAGE	TARGET VPD (kPa)
Cannabis	Clone / seedling	0.4 – 0.8
	Early veg	0.8 – 1.0
	Late veg	1.0 – 1.2
	Early flower	1.2 – 1.4
	Late flower	1.4 – 1.6
Basil (companion)	Propagation	0.4 – 0.8
	Vegetative	0.9 – 1.3
	Harvest	1.0 – 1.4

Cannabis stage bands follow the widely used 0.4 / 0.8 / 1.2 / 1.6 kPa spine. Basil is included because it shares a room with cannabis more often than any other crop.

07 • THE MATH ON THIS SHEET

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es(T)      = 0.6108 × exp( (17.27 × T) / (T + 237.3) )
T_leaf     = T_air + offset
VPD        = es(T_leaf) - (RH/100) × es(T_air)
  
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T is temperature in °C and es is saturation vapor pressure in kPa. The saturation term is the Tetens equation — the same one the AGEYE VPD calculator runs. °F values on these sheets are converted to °C before the equation is applied, never after.

Worked example — air 25.0 °C (77.0 °F), RH 60%, offset -2 °C. Leaf is 23.0 °C. $es(23.0) = 2.8094$ kPa. $es(25.0) = 3.1678$ kPa. $VPD = 2.8094 - 0.60 \times 3.1678 = 0.91$ kPa.

08 • WHICH LEVER MOVES VPD FASTEST

CHANGE	VPD MOVES	NOTE
Leaf offset, +1 °C	+0.17 kPa	Biggest lever, and the one nobody measures.
Relative humidity, +5 pts	-0.16 kPa	Dehumidify or humidify — the fastest control you own.
Air temperature, +1 °C	+0.06 kPa	Roughly a third of the humidity lever. Weaker than it feels.

Measured at 25 °C, 60% RH, -2 °C offset, from the same equation these charts are drawn with. Humidity is about three times the lever that air temperature is — and the leaf offset beats both.

09 • PRINTING AND LAMINATION

Print at 100% / Actual Size, not Fit to Page. Use the edition that matches your paper — the other will scale and lose contrast at the band edges.

Nothing here is thinner than 0.4 pt and no meaning rests on hue alone, so a black-and-white photocopy of a laminated sheet stays readable: danger bands print dark, working bands print light, every band boundary is a heavy stepped rule, and every cell carries its own number.