Supplemental Material A: 5 Tables and 1 Figure

Table S1. Study Characteristics

	End of Day				Momentary				
	NSDE	WFHS	ESCAPE	SAWM	SHADE	NTH	WDL	ESCAPE	SAWM
N									
Participants	845	313	240	170	117	300	115	241	172
Possible Obs./Person	8	8	14	10	7	2	3	14	10
Average Obs./Person	7.33	7.38	11.47	6.24	30.37	27.12	16.10	57.94	30.46
Compliance rate	91.7%	92.3%	81.9%	89.2%	86.8%	-	89.5%	82.8%	87.0%
Grand mean									
Negative Affect	0.21	1.34	26.52	2.15	1.07	1.45	0.73	23.48	1.97
Positive Affect	2.74	2.87	60.83	4.40	2.80	4.60	4.35	60.42	4.33

Note. Summary of sample, design, and descriptive statistics across all studies. Obs.=Observations. The protocol in NTH involved different start times, wake and sleep times, and blood pressure functions, thus average compliance is not interpretable in the same way as the other studies.

Table S2. Estimates for Between-Person (R_{BP}) and Within-Person (R_{WP}) Reliabilities for End of Day Assessments of Negative Affect.

| | End of Day NA R_{BP} Estimates | | | | | End of Day NA R_{WP} Estimates | | | | |
| | Study | | | | Median | Study | | | | Median |
# Items	NSDE	WFHS	ESCAPE	SAWM		NSDE	WFHS	ESCAPE	SAWM	
2	0.85	0.85	0.98	0.97	0.91	0.32	0.35	0.69	0.74	0.52
3	0.88	0.89	0.99	0.97	0.93	0.41	0.45	0.77	0.81	0.61
4	0.90	0.91	0.99	0.98	0.94	0.48	0.52	0.82	0.85	0.67
5	0.92	0.92	0.99	0.98	0.95	0.54	0.58	0.85	0.88	0.71
6	0.93	0.93	0.99	0.98	0.96	0.58	0.62	0.87	0.89	0.74
7	0.94	0.94	0.99	0.99	0.96	0.62	0.66	0.89	0.91	0.77
8	0.94	0.95	0.99	0.99	0.97	0.65	0.68	0.90	0.92	0.79
9	0.95	0.95	0.99	0.99	0.97	0.68	0.71	0.91	0.93	0.81

Note. Estimates for reliability of between-person (R_{BP}) and within-person (R_{WP}) assessments of negative affect (NA) based on coordinated analyses of End of Day datasets. The R_{WP} results are plotted in Figure 3.

Table S3. Estimates for Between-Person (R_{BP}) and Within-Person (R_{WP}) for End of Day Assessments of Positive Affect.

	End of Day PA R_{BP} Estimates					End of Day PA R_{WP} Estimates				
	Study				Median	Study				Median
# Items	NSDE	WFHS	ESCAPE	SAWM		NSDE	WFHS	ESCAPE	SAWM	
2	0.96	0.94	0.99	0.97	0.96	0.49	0.45	0.81	0.69	0.59
3	0.97	0.95	0.99	0.98	0.97	0.59	0.55	0.86	0.77	0.68
4	0.98	0.96	0.99	0.98	0.98	0.66	0.62	0.89	0.82	0.74
5	0.98	0.97	1.00	0.98	0.98	0.71	0.67	0.91	0.85	0.78
6	0.99	0.97	1.00	0.99	0.99	0.74	0.71	0.93	0.87	0.81
7	0.99	0.98	1.00	0.99	0.99	0.77	0.74	0.94	0.89	0.83
8	0.99	0.98	1.00	0.99	0.99	0.79	0.77	0.94	0.90	0.85
9	0.99	0.98	1.00	0.99	0.99	0.81	0.79	0.95	0.91	0.86

Note. Estimates for reliability of between-person (R_{BP}) and within-person (R_{WP}) assessments of positive affect (PA) based on coordinated analyses of End of Day datasets. The R_{WP} results are plotted in Figure 3.

Table S4. Estimates for Between-Person (R_{BP}) and Within-Person (R_{WP}) Reliabilities for Momentary Assessments of Negative Affect.

	Momentary NA R_{BP} Estimates					Momentary NA R_{WP} Estimates				
	Study				Median	Study				Median
# Items	SHADE	NTH	ESCAPE	SAWM		SHADE	NTH	ESCAPE	SAWM	
2	0.99	0.98	1.00	0.99	0.99	0.69	0.54	0.65	0.73	0.67
3	0.99	0.99	1.00	0.99	0.99	0.77	0.64	0.74	0.80	0.75
4	0.99	0.99	1.00	0.99	0.99	0.82	0.70	0.79	0.84	0.80
5	0.99	0.99	1.00	1.00	0.99	0.85	0.74	0.82	0.87	0.84
6	0.99	0.99	1.00	1.00	1.00	0.87	0.78	0.85	0.89	0.86
7	1.00	0.99	1.00	1.00	1.00	0.89	0.80	0.87	0.90	0.88
8	1.00	0.99	1.00	1.00	1.00	0.90	0.82	0.88	0.91	0.89
9	1.00	0.99	1.00	1.00	1.00	0.91	0.84	0.89	0.92	0.90

Note. Estimates for reliability of between-person (R_{BP}) and within-person (R_{WP}) assessments of negative affect (NA) based on coordinated analyses of momentary datasets. The R_{WP} results are plotted in Figure 3.

Table S5. Estimates for Between-Person (R_{BP}) and Within-Person (R_{WP}) for Momentary Assessments of Positive Affect.

# Items	Momentary PA R_{BP} Estimates					Momentary PA R_{WP} Estimates				
	Study				Median	Study				Median
	SHADE	NTH	ESCAPE	SAWM		SHADE	NTH	ESCAPE	SAWM	
2	1.00	0.99	1.00	0.99	0.99	0.83	0.54	0.80	0.69	0.74
3	1.00	0.99	1.00	0.99	0.99	0.88	0.64	0.86	0.77	0.81
4	1.00	0.99	1.00	0.99	1.00	0.91	0.70	0.89	0.82	0.85
5	1.00	0.99	1.00	1.00	1.00	0.93	0.75	0.91	0.85	0.88
6	1.00	1.00	1.00	1.00	1.00	0.94	0.78	0.92	0.87	0.90
7	1.00	1.00	1.00	1.00	1.00	0.95	0.80	0.93	0.89	0.91
8	1.00	1.00	1.00	1.00	1.00	0.95	0.82	0.94	0.90	0.92
9	1.00	1.00	1.00	1.00	1.00	0.96	0.84	0.95	0.91	0.93

Note. Estimates for reliability of between-person (R_{BP}) and within-person (R_{WP}) assessments of positive affect (PA) based on coordinated analyses of momentary datasets. The R_{WP} results are plotted in Figure 3.
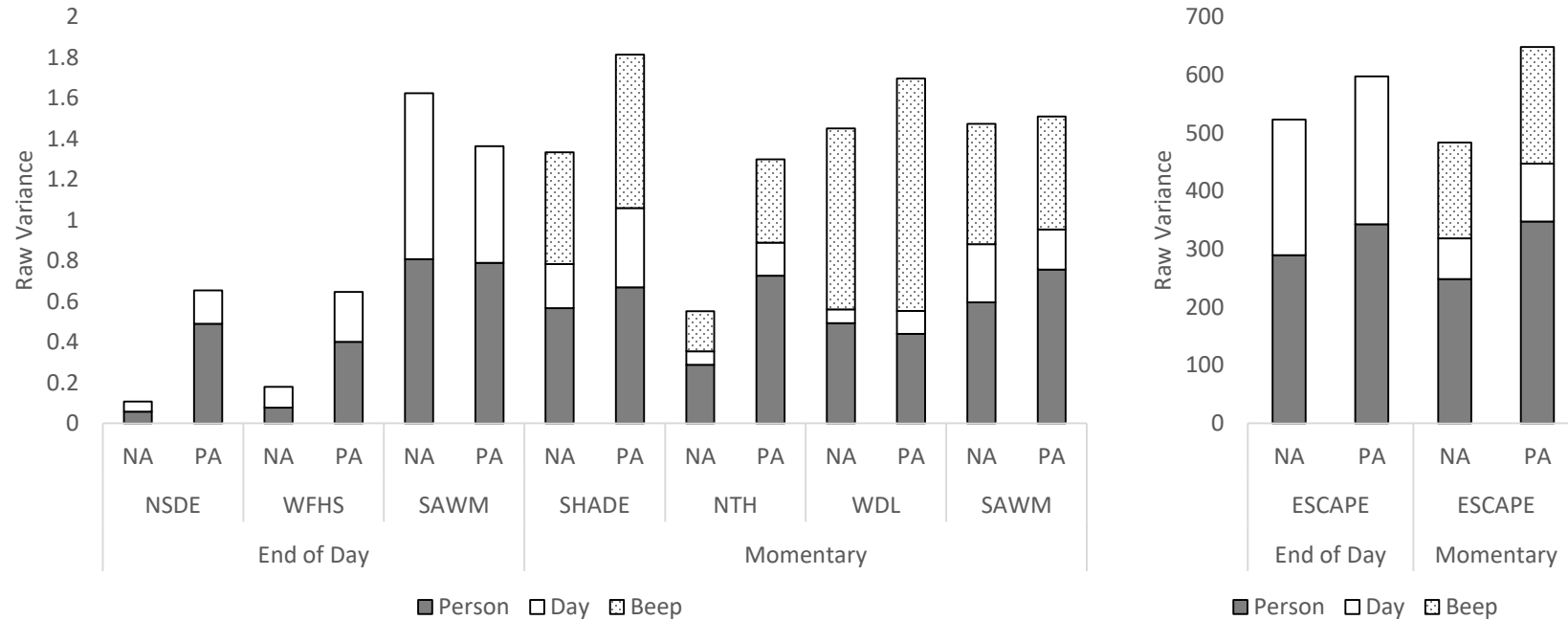
Figure S1. Raw Between- (Shaded) and Within- (Unshaded) Person Variance in Negative Affect (NA) and Positive Affect (PA) in End of Day (EOD) and Momentary (Ecological Momentary Assessment [EMA]) Reports. For each dataset, raw between-person variance is displayed in grey shaded portions of the bars and raw within-person variance is displayed in the unshaded portions. In momentary datasets, within-person variance can be decomposed into two sources, variation within-persons across days (the lower portion of the unshaded area) and variation within-persons within days (the upper portion of the unshaded area). ESCAPE and SAWM are hybrid designs containing both EOD and momentary reports, thus the EOD data from SAWM is presented with the diary studies and SAWM momentary data is presented with the EMA studies. ESCAPE EOD and momentary results are displayed in a separate panel because of differences in scale from the other datasets.