Supplemental information for

Comprehensive analysis of hyperspectral features for monitoring canopy maize leaf spot disease

Table S3.1 Vegetation indices derived from hyperspectral images

Name	Abbreviation	Equation	Equation
VIs for plant biophysical properties: structure, crop cover			
Structural			
Normalized Difference Vegetation Index	NDVI	$(R_{800}-R_{670})/(R_{800}+R_{670})$	Rouse et al. (1974)
Near−Infrared Reflectance of Vegetation	NIR_V	$R_{800}(R_{800}-R_{670})/(R_{800}+R_{670})$	Badgley et al. (2017)
Renormalized Difference Vegetation Index	RDVI	$(R_{800}-R_{670})/(R_{800}+R_{670})^{1/2}$	Roujean and Breon (1995)
Simple Ratio	SR	R_{800}/R_{670}	Carter (1994)
Modified Red−edge Ratio	mSR	$(R_{750}-R_{445})/(R_{705}-R_{445})$	Sims and Gamon (2002)
Optimized Soil−Adjusted Vegetation Index	OSAVI	$(1+0.6)(R_{800}-R_{670})/(R_{800}+R_{670}+0.16)$	Rondeaux et al. (1996)
Modified Triangular Vegetation Index 1	MTVI1	$1.2(1.2(R_{800}-R_{550})-2.5(R_{670}-R_{550}))$	Haboudane et al. (2004)
Modified Triangular Vegetation Index 2	MTVI2	$1.5\frac{2.5(R_{800}-R_{550})-1.3(R_{670}-R_{550})}{\sqrt{(2R_{800}+1)^2-(6R_{800}-5\sqrt{R_{670}})-0.5}}$	Haboudane et al. (2004)
Enhanced Vegetation Index	EVI	$2.5(R_{800}-R_{670})/(R_{800}+6R_{670}-7.5R_{400}+1)$	Huete et al. (2002)
Lichtenthaler Index	LIC_1	$(R_{800}-R_{680})/(R_{800}+R_{680})$	Lichtenthaler et al. (1996)
VIs for plant biochemical properties: pigments, water and nitrogen			
Chlorophyll			
Vogelmann Indices	VOG1	R_{740}/R_{720}	Vogelmann et al. (1993)
	VOG2	$(R_{734}-R_{747})/(R_{715}-R_{726})$	Vogelmann et al. (1993)
	VOG3	$(R_{734}-R_{747})/(R_{715}+R_{720})$	Vogelmann et al. (1993)

Gitelson and Merzlyak Indices	GM1	R_{750}/R_{550}	Gitelson and Merzlyak (1996)
	GM2	R_{750}/R_{700}	Gitelson and Merzlyak (1996)
Transformed Chlorophyll Absorption in Reflectance Index	TCARI	$3\times[(R_{700}-R_{670})-0.2\times(R_{700}-R_{550})\times(R_{700}/R_{670})]$	Haboudane et al. (2002)
TCARI/OSAVI	TCARI/OSAVI	TCARI/OSAVI	Haboudane et al. (2002)
Chlorophyll Index	CI	R_{750}/R_{710}	Zarco-Tejada et al. (2001)
Simple Ratio Pigment Index	SRPI	R_{430}/R_{680}	Penuelas et al. (1995)
Normalized Phaeophytinization Index	NPQI	$(R_{415}-R_{435})/(R_{415}+R_{435})$	Barnes et al. (1992)
Pigment Specific Simple Ratio for Chl a	PSSRa	R_{800}/R_{680}	Blackburn (1998)
Pigment Specific Simple Ratio for Chl b	PSSRb	R_{800}/R_{635}	Blackburn (1998)
Pigment Specific Normalized Difference	PSND	$(R_{800}-R_{675})/(R_{800}+R_{675})$	Blackburn (1998)
Carotenoid			
Carotenoid Reflectance Index	CRI_{550}	$(1/R_{510})-(1/R_{550})$	Gitelson et al. (2002)
Carotenoid Reflectance Index	CRI_{700}	$(1/R_{510})-(1/R_{700})$	Gitelson et al. (2003)
Modified Carotenoid Reflectance Index 550	CRI_{550m}	$(1/R_{515})-(1/R_{550})$	Gitelson et al. (2003)
Modified Carotenoid Reflectance Index 700	CRI_{700m}	$(1/R_{515})-(1/R_{700})$	Gitelson et al. (2003)
Near−Infrared Carotenoid Reflectance Index 550	$RCRI_{550}$	$(1/R_{510})-(1/R_{550})R_{770}$	Gitelson et al. (2006)
Near−Infrared Carotenoid Reflectance Index 700	$RCRI_{700}$	$(1/R_{510})-(1/R_{700})R_{770}$	Gitelson et al. (2006)
Simple Ratio Carotenoids	CAR	R_{695}/R_{760}	Hernández-Clemente et al. (2012)
Lichtenthaler Index	LIC_3	R_{440}/R_{740}	Lichtenthaler et al. (1996)
Anthocyanins			
Visible Atmospherically	VARI	$(R_{555}-R_{650})/(R_{555}+R_{650}-R_{475})$	Gitelson et al.

Resistant Index			(2001)
Visible Atmospherically Resistant Index 2	VARI2	$(R_{560}–R_{668})/(R_{560}+R_{668}−R_{475})$	Gitelson et al. (2001)
Anthocyanin Reflectance Index	ARI	$1/R_{550}−1/R_{700}$	Gitelson et al. (2001)
Modified Anthocyanin Reflectance Index	ARIm	$R_{800}(1/R_{550}−1/R_{700})$	Gitelson et al. (2006)
Pigments: Carotenoid and chlorophyll			
Normalized Pigments Index	NPCI	$(R_{680}−R_{430})/(R_{680}+R_{430})$	Penuelas et al. (1995)
Structure−Intensive Pigment Index	SIPI	$(R_{800}−R_{445})/(R_{800}+R_{680})$	Penuelas et al. (1995)
Plant Senescence Reflectance Index	PSRI	$(R_{680}−R_{500})/R_{750}$	Merzlyak et al. (1999)
Blue Index	B	R_{450}/R_{490}	Calderón et al. (2013)
Greenness Index	G	R_{570}/R_{670}	Calderón et al. (2013)
Redness Index	R	R_{700}/R_{670}	Gitelson et al. (2000)
Blue/green Indices	BGI1	R_{400}/R_{550}	Zarco-Tejada et al. (2005)
	BGI2	R_{450}/R_{550}	Zarco-Tejada et al. (2005)
Blue Fraction	BF1	R_{400}/R_{410}	Zarco-Tejada et al. (2018)
	BF2	R_{400}/R_{420}	Zarco-Tejada et al. (2018)
	BF3	R_{400}/R_{430}	Zarco-Tejada et al. (2018)
	BF4	R_{400}/R_{440}	Zarco-Tejada et al. (2018)
	BF5	R_{400}/R_{450}	Zarco-Tejada et al. (2018)
Blue/Red Indices	BRI1	R_{490}/R_{690}	Zarco-Tejada et al. (2012)
	BRI2	R_{450}/R_{690}	Zarco-Tejada et al. (2012)
Relative Greenness Index	RGI	R_{690}/R_{550}	Zarco-Tejada et al. (2005)
Ratio Analysis of Reflectance Spectra	RARS	R_{746}/R_{513}	Chappelle et al. (1992)
Pigment Specific Simple Ratio for Cars	PSSRc	R_{800}/R_{470}	Blackburn (1998)
Datt Cab Cx+c Index	DCabxc	$R_{672}/(R_{550}\times 3R_{708})$	Datt (1998)
Datt NIR Cab Cx+c	DNCabxc	$R_{860}/(R_{550}\times R_{708})$	Datt (1998)

Index			
Nitrogen			
Double−peak Canopy Nitrogen Index	DCNI	$(R_{720}-R_{700})/(R_{700}-R_{670})/(R_{720}-R_{670}+0.03)$	Chen et al. (2010)
Structure and chlorophyll			
Triangular Vegetation Index	TVI	$0.5(120(R_{750}-R_{550})-200(R_{670}-R_{550}))$	Broge and Leblanc (2001)
VIs for plant physiological properties			
Xanthophyll and photosynthetic efficiency			
Photochemical Reflectance Indices	PRI	$(R_{570}-R_{531})/(R_{570}+R_{531})$	Gamon et al. (1992)
Photochemical Reflectance Index (515)	PRI_{515}	$(R_{515}-R_{531})/(R_{515}+R_{531})$	Hernandez-Clemente et al. (2011)
Photochemical Reflectance Index (512)	PRI_{m1}	$(R_{512}-R_{531})/(R_{512}+R_{531})$	Hernandez-Clemente et al. (2011)
Photochemical Reflectance Index (600)	PRI_{m2}	$(R_{600}-R_{531})/(R_{600}+R_{531})$	Gamon et al. (1992)
Photochemical Reflectance Index (670)	PRI_{m3}	$(R_{670}-R_{531})/(R_{670}+R_{531})$	Gamon et al. (1992)
Photochemical Reflectance Index (670 and 570)	PRI_{m4}	$(R_{570}-R_{531}-R_{670})/(R_{570}+R_{531}+R_{670})$	Hernandez-Clemente et al. (2011)
Normalized Photosynthetic Reflectance Index	PRI_n	$PRI_{570}/[RDVI\times(R_{700}/R_{670})]$	Zarco-Tejada et al. (2013)
Carotenoid/Chlorophyll Ratio Index	PRI×CI	$(R_{570}-R_{530})/(R_{570}+R_{530})\times((R_{760}/R_{700})-1)$	Garrity et al. (2011)
Chlorophyll fluorescence			
Reflectance Curvature Index	CUR	$(R_{675}\times R_{690})/R_{683}^2$	Zarco-Tejada et al. (2000)
Stresses			
Health Index (534,698,704)	HI	$(R_{534}-R_{698})/(R_{534}+R_{698})-0.5\times R_{704}$	Mahlein et al. (2013)
Lichtenthaler	LIC_2	R_{440}/R_{690}	Lichtenthaler (1996)
Carter Indices	CTRI	R_{695}/R_{420}	Carter (1994)

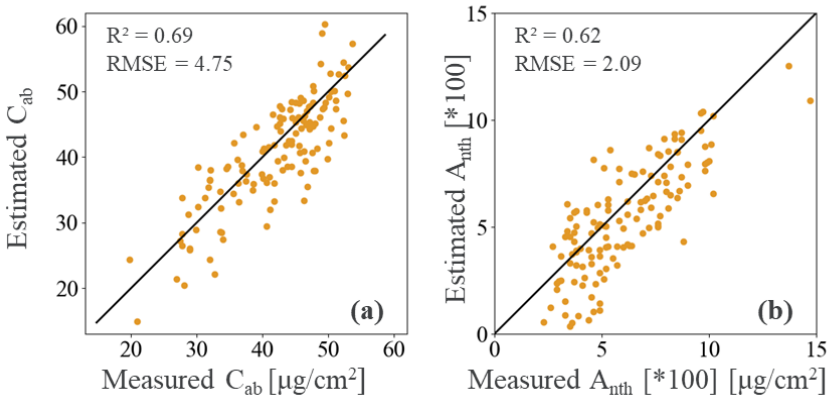

Fig. S3.1 Correlation of measured vs. PROSAIL estimated C_{ab} and A_{nth}. A total of 132 samples from site A (12 plots × 11 times) were evaluated.

Table S3.2 The performances of random forest (RF) models for calculating the SHAP values

Classification		
Models	**Overall accuracy**	**kappa**
Early stage	0.90	0.74
Mild stage	1.00	1.00
Serve stage	0.98	0.95
Regression		
	R²	**RMSE**
Regression	0.90	2.62

Table S3.3 Effect sizes of the normalized spectral reflectance

Wavelengths	**Response time**	**DAI 2**	**DAI 4**	**DAI 6**	**DAI 8**	**DAI 10**	**DAI 12**	**DAI 15**	**DAI 22**	**DAI 24**	**DAI 30**
404	0	0.3	0.52	−0.42	0.02	−0.74	1.99	0.88	−0.59	−0.52	−0.95
408	0	0.21	0.46	−0.46	−0.05	−0.8	1.91	0.83	−0.65	−0.55	−0.97
412	0	0.13	0.38	−0.5	−0.09	−0.87	1.85	0.8	−0.71	−0.57	−0.96
416	0	0.1	0.36	−0.5	−0.15	−0.88	1.8	0.78	−0.71	−0.53	−0.95
420	0	0.08	0.34	−0.53	−0.17	−0.9	1.8	0.8	−0.72	−0.54	−0.93
424	0	0.04	0.34	−0.55	−0.19	−0.92	1.8	0.78	−0.74	−0.55	−0.93
428	0	0.12	0.33	−0.49	−0.17	−0.85	1.8	0.84	−0.63	−0.41	−0.83
432	0	0.05	0.32	−0.55	−0.23	−0.93	1.78	0.81	−0.71	−0.48	−0.88
436	0	0.06	0.32	−0.55	−0.25	−0.93	1.77	0.83	−0.69	−0.43	−0.84
440	0	0.05	0.33	−0.56	−0.26	−0.95	1.77	0.86	−0.7	−0.44	−0.84
444	0	0.07	0.32	−0.56	−0.25	−0.93	1.78	0.9	−0.66	−0.37	−0.78
449	0	0.05	0.33	−0.58	−0.28	−0.96	1.76	0.89	−0.7	−0.41	−0.79

453	0	0.06	0.33	−0.56	−0.28	−0.95	1.77	0.92	−0.67	−0.34	−0.75
457	0	0.08	0.34	−0.56	−0.28	−0.94	1.77	0.92	−0.67	−0.33	−0.75
461	0	0.06	0.34	−0.58	−0.31	−0.96	1.77	0.94	−0.68	−0.33	−0.74
465	0	0.09	0.36	−0.55	−0.29	−0.94	1.79	0.98	−0.66	−0.29	−0.7
469	0	0.09	0.37	−0.54	−0.29	−0.94	1.79	0.99	−0.65	−0.26	−0.69
473	0	0.1	0.38	−0.54	−0.3	−0.94	1.8	1.01	−0.65	−0.25	−0.68
477	0	0.1	0.39	−0.54	−0.3	−0.95	1.79	1.01	−0.65	−0.24	−0.66
481	0	0.1	0.4	−0.55	−0.31	−0.95	1.79	1.06	−0.67	−0.26	−0.68
486	0	0.14	0.4	−0.5	−0.27	−0.92	1.83	1.07	−0.59	−0.15	−0.59
490	0	0.13	0.41	−0.53	−0.31	−0.93	1.82	1.06	−0.64	−0.21	−0.64
494	0	0.1	0.4	−0.55	−0.35	−0.96	1.79	1.06	−0.67	−0.23	−0.66
498	0	0.11	0.39	−0.56	−0.38	−0.95	1.8	1.06	−0.67	−0.23	−0.65
502	0	0.11	0.38	−0.56	−0.41	−0.95	1.79	1.02	−0.68	−0.25	−0.66
506	0	0.1	0.35	−0.59	−0.48	−0.95	1.76	0.96	−0.72	−0.3	−0.71
510	0	0.05	0.29	−0.64	−0.57	−0.97	1.7	0.87	−0.78	−0.38	−0.77
515	0	0.1	0.29	−0.61	−0.56	−0.9	1.7	0.83	−0.76	−0.4	−0.78
519	0	0.06	0.24	−0.63	−0.62	−0.89	1.61	0.68	−0.82	−0.5	−0.85
523	0	0.05	0.21	−0.64	−0.64	−0.88	1.52	0.61	−0.86	−0.57	−0.91
527	0	0.03	0.19	−0.63	−0.64	−0.86	1.44	0.54	−0.86	−0.6	−0.92
531	0	0.05	0.19	−0.62	−0.63	−0.83	1.41	0.51	−0.87	−0.63	−0.93
535	0	0.04	0.19	−0.63	−0.63	−0.83	1.37	0.49	−0.89	−0.66	−0.96
540	0	0.07	0.2	−0.59	−0.6	−0.79	1.41	0.5	−0.85	−0.62	−0.92
544	0	0.07	0.2	−0.6	−0.6	−0.79	1.39	0.5	−0.87	−0.64	−0.93
548	0	0.07	0.21	−0.6	−0.59	−0.79	1.39	0.51	−0.87	−0.63	−0.92
552	0	0.06	0.2	−0.6	−0.59	−0.8	1.38	0.51	−0.88	−0.64	−0.92
556	0	0.08	0.22	−0.59	−0.58	−0.79	1.41	0.54	−0.86	−0.61	−0.89
560	0	0.08	0.22	−0.6	−0.59	−0.81	1.42	0.56	−0.87	−0.6	−0.89
565	0	0.08	0.24	−0.6	−0.6	−0.83	1.42	0.6	−0.87	−0.57	−0.87
569	0	0.1	0.26	−0.58	−0.6	−0.84	1.46	0.66	−0.85	−0.52	−0.83
573	0	0.1	0.28	−0.59	−0.61	−0.87	1.46	0.72	−0.85	−0.49	−0.81
577	0	0.12	0.3	−0.58	−0.61	−0.88	1.48	0.77	−0.83	−0.44	−0.77
581	0	0.09	0.31	−0.6	−0.63	−0.92	1.46	0.8	−0.85	−0.44	−0.77
586	0	0.11	0.33	−0.58	−0.62	−0.92	1.47	0.86	−0.84	−0.4	−0.75
590	0	0.14	0.36	−0.53	−0.61	−0.91	1.52	0.9	−0.78	−0.34	−0.69
594	0	0.12	0.36	−0.55	−0.62	−0.93	1.5	0.89	−0.8	−0.35	−0.7
598	0	0.12	0.37	−0.55	−0.63	−0.94	1.5	0.91	−0.8	−0.33	−0.68
602	0	0.1	0.38	−0.55	−0.63	−0.96	1.49	0.94	−0.79	−0.32	−0.66
607	0	0.12	0.4	−0.53	−0.61	−0.96	1.51	1	−0.77	−0.28	−0.63
611	0	0.13	0.42	−0.51	−0.6	−0.97	1.53	1.05	−0.75	−0.24	−0.6
615	0	0.15	0.45	−0.49	−0.58	−0.96	1.56	1.11	−0.72	−0.2	−0.56
619	0	0.13	0.46	−0.49	−0.59	−0.99	1.55	1.13	−0.72	−0.19	−0.55
624	0	0.15	0.49	−0.47	−0.57	−0.98	1.59	1.17	−0.7	−0.15	−0.52
628	0	0.16	0.51	−0.45	−0.56	−0.98	1.6	1.18	−0.68	−0.13	−0.5
632	0	0.16	0.52	−0.44	−0.56	−0.98	1.6	1.2	−0.67	−0.11	−0.48
636	0	0.17	0.53	−0.43	−0.53	−0.99	1.61	1.24	−0.65	−0.08	−0.45
641	0	0.18	0.57	−0.4	−0.49	−0.99	1.63	1.3	−0.63	−0.03	−0.41

645	0	0.22	0.62	−0.37	−0.44	−0.97	1.68	1.37	−0.6	0.01	−0.38
649	0	0.23	0.65	−0.34	−0.42	−0.97	1.7	1.42	−0.58	0.06	−0.35
653	0	0.25	0.68	−0.33	−0.37	−0.96	1.72	1.47	−0.56	0.08	−0.33
658	0	0.24	0.71	−0.3	−0.33	−0.96	1.75	1.52	−0.53	0.14	−0.29
662	0	0.25	0.76	−0.28	−0.27	−0.95	1.78	1.61	−0.51	0.18	−0.27
666	0	0.27	0.8	−0.24	−0.2	−0.93	1.82	1.67	−0.48	0.22	−0.24
670	0	0.29	0.82	−0.22	−0.16	−0.91	1.86	1.71	−0.46	0.25	−0.22
675	0	0.28	0.83	−0.21	−0.14	−0.91	1.88	1.72	−0.46	0.26	−0.22
679	0	0.28	0.83	−0.21	−0.15	−0.9	1.89	1.72	−0.44	0.26	−0.22
683	0	0.26	0.8	−0.25	−0.19	−0.92	1.89	1.7	−0.47	0.21	−0.24
687	0	0.3	0.75	−0.25	−0.3	−0.88	1.92	1.57	−0.47	0.17	−0.26
692	0	0.28	0.65	−0.32	−0.43	−0.87	1.91	1.4	−0.55	0.03	−0.33
696	0	0.17	0.49	−0.39	−0.55	−0.87	1.86	1.16	−0.64	−0.14	−0.42
700	0	0.2	0.44	−0.38	−0.53	−0.77	1.94	0.98	−0.67	−0.25	−0.49
705	0	0.16	0.38	−0.39	−0.47	−0.71	2	0.88	−0.69	−0.35	−0.54
709	0	0.15	0.37	−0.37	−0.38	−0.64	2.09	0.82	−0.68	−0.4	−0.55
713	0	0.07	0.34	−0.41	−0.36	−0.64	2.03	0.77	−0.73	−0.5	−0.6
717	0	0.28	0.46	−0.15	−0.11	−0.38	2.23	0.76	−0.55	−0.37	−0.48
722	0	0.14	0.44	−0.25	−0.16	−0.48	1.97	0.7	−0.61	−0.48	−0.51
726	0	0.2	0.49	−0.16	−0.05	−0.37	1.88	0.65	−0.52	−0.42	−0.41
730	0	0.23	0.51	−0.13	0.02	−0.31	1.72	0.57	−0.45	−0.38	−0.31
735	0	0.22	0.55	−0.16	0.04	−0.32	1.54	0.54	−0.42	−0.4	−0.25
739	0	0.24	0.55	−0.12	0.08	−0.25	1.44	0.51	−0.35	−0.31	−0.13
743	0	0.25	0.55	−0.11	0.1	−0.22	1.34	0.5	−0.29	−0.25	−0.03
748	0	0.25	0.56	−0.1	0.11	−0.21	1.28	0.48	−0.27	−0.23	0.04
752	0	0.26	0.56	−0.1	0.1	−0.2	1.22	0.45	−0.26	−0.22	0.07
756	0	0.2	0.6	−0.16	0.05	−0.32	1.12	0.48	−0.3	−0.28	0.05
761	0	0.33	0.56	0.01	0.18	−0.08	1.29	0.35	−0.2	−0.2	0.09
765	0	0.28	0.57	−0.04	0.12	−0.16	1.21	0.37	−0.26	−0.21	0.12
769	0	0.26	0.59	−0.08	0.09	−0.2	1.16	0.4	−0.27	−0.25	0.1
774	0	0.27	0.6	−0.07	0.1	−0.19	1.17	0.41	−0.26	−0.23	0.11
778	0	0.27	0.59	−0.07	0.1	−0.19	1.18	0.41	−0.26	−0.23	0.11
782	0	0.27	0.59	−0.06	0.09	−0.2	1.18	0.41	−0.27	−0.23	0.1
787	0	0.28	0.6	−0.05	0.09	−0.19	1.19	0.41	−0.27	−0.24	0.09
791	0	0.28	0.6	−0.04	0.1	−0.19	1.2	0.42	−0.27	−0.24	0.1
795	0	0.27	0.6	−0.04	0.09	−0.2	1.21	0.41	−0.28	−0.25	0.08
800	0	0.28	0.61	−0.02	0.1	−0.18	1.23	0.41	−0.28	−0.25	0.08
804	0	0.27	0.59	−0.03	0.09	−0.19	1.22	0.42	−0.28	−0.25	0.07
808	0	0.26	0.59	−0.04	0.07	−0.23	1.22	0.43	−0.3	−0.28	0.05
813	0	0.28	0.63	0.01	0.08	−0.2	1.29	0.42	−0.3	−0.3	0.03
817	0	0.28	0.58	0.03	0.08	−0.19	1.29	0.4	−0.29	−0.25	0.05
821	0	0.31	0.64	0.04	0.1	−0.16	1.33	0.43	−0.28	−0.28	0.05
826	0	0.28	0.63	0.02	0.08	−0.2	1.31	0.44	−0.3	−0.28	0.03
830	0	0.3	0.62	0.04	0.09	−0.17	1.34	0.44	−0.28	−0.26	0.05
835	0	0.29	0.61	0.02	0.09	−0.17	1.32	0.45	−0.29	−0.27	0.04
839	0	0.29	0.62	0.01	0.09	−0.17	1.32	0.44	−0.29	−0.27	0.03

843	0	0.29	0.62	0.01	0.09	−0.17	1.33	0.44	−0.28	−0.26	0.03
848	0	0.29	0.63	0.01	0.09	−0.16	1.34	0.45	−0.29	−0.26	0.03
852	0	0.31	0.64	0.02	0.1	−0.15	1.37	0.45	−0.27	−0.27	0.03
857	0	0.3	0.63	0.02	0.1	−0.15	1.38	0.47	−0.27	−0.24	0.04
861	0	0.3	0.63	0.02	0.09	−0.17	1.37	0.47	−0.29	−0.25	0.04
865	0	0.32	0.65	0.04	0.11	−0.13	1.42	0.47	−0.26	−0.25	0.04
870	0	0.3	0.63	0.03	0.1	−0.15	1.4	0.47	−0.28	−0.26	0.02
874	0	0.3	0.63	0.04	0.1	−0.15	1.4	0.48	−0.28	−0.27	0.03
879	0	0.3	0.64	0.04	0.1	−0.15	1.43	0.47	−0.29	−0.27	0.01
883	0	0.31	0.65	0.06	0.11	−0.15	1.45	0.49	−0.28	−0.26	0.01
887	0	0.29	0.62	0.04	0.1	−0.17	1.45	0.48	−0.3	−0.27	−0.01
892	0	0.27	0.64	0.03	0.07	−0.21	1.47	0.48	−0.33	−0.31	−0.05
896	0	0.3	0.66	0.1	0.08	−0.17	1.58	0.45	−0.31	−0.32	−0.05

Table S3.4 Effect sizes of the normalized vegetation indices

Feature name	**Response time**	**DAI 2**	**DAI 4**	**DAI 6**	**DAI 8**	**DAI 10**	**DAI 12**	**DAI 15**	**DAI 22**	**DAI 24**	**DAI 30**
NDVI	15	−0.46	−0.47	−0.44	−0.07	0.12	−0.75	−1.08	−1.51	−2.26	−2.19
NIR_V	0	0.28	0.55	0.06	0.12	−0.08	0.84	0.27	−0.19	−0.32	0.23
RDVI	0	0.1	0.36	−0.15	0.03	−0.33	0.6	0.05	−0.63	−0.85	−0.59
SR	0	−0.34	−0.18	1.53	0.31	0.42	−1.02	−0.34	1.07	0.26	1.32
mSR	0	−0.38	−0.26	0.84	0.2	0.33	−0.95	−0.59	0.1	−0.82	−0.24
OSAVI	22	−0.07	0.17	−0.31	−0.06	−0.58	0.32	−0.14	−0.89	−1.12	−0.95
MTVI1	0	0.24	0.49	−0.1	0.03	−0.18	0.89	0.25	−0.35	−0.49	−0.07
MTVI2	0	0.04	0.25	−0.11	−0.05	−0.32	0.24	0	−0.47	−0.71	−0.28
EVI	0	0.11	0.32	−0.35	−0.14	−0.37	0.79	0.12	−0.59	−0.73	−0.45
LIC_1	15	−0.45	−0.48	−0.45	−0.07	0.12	−0.76	−1.09	−1.53	−2.28	−2.18
VOG1	0	−0.14	−0.05	0.39	0.4	−0.01	−0.92	−1.06	−0.26	−0.76	−0.39
VOG2	0	0.18	0.21	−0.34	−0.22	0.07	1.12	1.03	−0.04	0.03	−0.61
VOG3	0	0.21	0.29	−0.41	−0.24	−0.01	1.19	1.15	−0.07	−0.01	−0.74
GM1	0	−0.31	0.21	1.33	0.72	0.15	−0.96	−0.37	−0.01	−0.4	0.57
GM2	0	−0.37	−0.13	1.49	0.5	0.17	−1.25	−0.77	0.61	0.02	0.9
TCARI	22	0.01	−0.06	−0.71	−0.76	−0.66	0.65	−0.08	−1.03	−1.13	−1.08
TCARI/OSAVI	0	0.08	−0.29	−0.61	−1.31	−0.8	−0.03	−0.25	−0.93	−0.78	−0.65
CI	0	−0.38	−0.11	1.05	0.39	−0.04	−1.31	−1.06	0.07	−0.4	0.29
TVI	0	0.23	0.47	−0.14	0.06	−0.17	0.9	0.3	−0.29	−0.41	−0.01
SRPI	24	−1.02	−1.88	−0.42	−0.21	−0.26	−2.35	−1.9	−0.17	−2.11	−2.6
NPQI	24	0.87	0.47	0.68	1.06	0.55	0.29	−0.5	−0.01	−1.44	−1.69
NPCI	24	0.65	1.49	0.27	0.09	−0.1	1.85	1.79	0.35	2.23	2.52
CTRI	24	−0.3	−0.05	−0.52	−0.93	−0.17	−0.49	0.42	0.18	1.28	1.73
CAR	0	−0.32	−0.13	−0.3	0.31	−0.8	−0.07	−0.28	0.82	1.28	−0.03

DCabxc	0	0.01	−0.01	0.48	0.53	0.66	−0.61	−0.24	0.86	0.85	0.56
DNCabxc	0	0.01	−0.01	0.48	0.53	0.66	−0.61	−0.24	0.86	0.85	0.56
SIPI	15	−0.44	−0.29	−0.26	−0.02	0.07	−0.76	−0.92	−1.3	−2.01	−1.79
CRI_{550}	0	−0.07	−0.22	0.64	0.5	1	−1.74	−1.44	0.72	0.24	0.52
CRI_{700}	0	0.12	0.02	0.67	0.61	1.06	−0.95	−0.02	0.83	0.53	0.57
CRI_{550m}	0	−0.17	−0.24	0.61	0.5	0.98	−1.82	−1.44	0.69	0.24	0.52
CRI_{700m}	0	0.06	0.06	0.65	0.63	1.06	−0.71	0.23	0.83	0.56	0.58
$RCRI_{550}$	0	−0.09	−0.23	0.54	0.44	0.9	−2.16	−0.84	0.76	0.49	0.52
$RCRI_{700}$	0	−0.09	−0.22	0.53	0.45	0.9	−2.05	−0.73	0.74	0.48	0.51
PSRI	12	0.86	1.42	1.38	1.04	0.51	1.3	1.33	2.31	2.91	2.9
LIC_3	0	0.23	0.02	−0.26	−0.06	−0.27	0.69	0.59	0.71	1.3	0.76
PRI	24	0.95	0.76	0.01	0.39	0.69	1.45	1.29	0.65	2.03	2.37
PRI_{515}	12	0.34	0.36	−0.28	0.41	−0.41	1.03	0.86	1.14	2.16	1.61
PRI_{M1}	24	−0.06	0.28	−0.48	0.31	−0.62	0.92	0.75	0.77	1.9	1.39
PRI_{M2}	24	0.62	0.75	−0.27	0.17	−0.17	1.26	1.09	0.53	1.84	2.11
PRI_{M3}	12	0.57	1.07	0.37	0.92	−0.09	1.51	1.5	1.24	2.51	2.43
PRI_{M4}	12	−0.11	−1.11	−0.6	−1.02	0.45	−1.47	−1.44	−1.53	−2.73	−2.02
PRI_n	8	1.12	1.03	0.79	1.05	1.27	1.88	1.29	1.84	1.92	1.51
PRI×CI	0	1.16	0.64	−0.36	−0.02	0.7	1.03	0.39	−0.69	−0.51	1.02
B	12	−1.08	−1.19	−0.6	0.26	−0.48	−1.64	−1.47	−0.88	−2.73	−3.17
G	12	−0.48	−1	−0.2	−0.76	0.26	−1.35	−1.29	−0.88	−2.21	−2.05
R	12	−0.2	−0.78	−0.19	−0.77	0.5	−0.89	−1.07	−1.01	−2.31	−1.51
BGI1	0	0.16	0.27	0.05	0.88	0.06	0.74	0.07	0.51	0.08	−0.81
BGI2	0	−0.39	−0.09	−0.35	0.55	−0.57	0.47	0.19	0.27	0.6	−0.1
BF1	0	2.78	1.61	1.69	1.82	1.65	2.25	1.06	1.43	1.18	0.45
BF2	0	2.19	1.32	1.21	1.66	1.36	2.39	0.55	1.09	0.6	0.1
BF3	0	1.23	1	0.5	1.2	0.79	1.55	0.19	0.47	−0.59	−1.02
BF4	0	1.89	1.09	1.09	1.54	1.25	1.66	0.15	0.78	−0.25	−0.75
BF5	0	1.84	1.03	1.13	1.46	1.21	1.51	−0.02	0.74	−0.45	−1.07
BRI1	24	−1.15	−1.45	−0.43	0.19	−0.78	−2.66	−1.62	−0.06	−1.37	−2.06
BRI2	24	−1.15	−1.45	−0.43	0.19	−0.78	−2.66	−1.62	−0.06	−1.37	−2.06
RGI	12	0.82	1.12	0.32	0.6	0	1.66	1.37	1.43	2.34	2.25
RARS	0	−0.31	0.19	1.41	0.58	0.51	−0.6	0.18	0.16	−0.39	0.74
LIC_2	24	−1.15	−1.49	−0.43	0.19	−0.74	−2.67	−1.53	−0.09	−1.52	−2.2
HI	24	−0.88	−1.29	−0.07	−0.42	0.09	−1.9	−1.64	−0.73	−2.08	−2.21
CUR	12	0.32	−0.71	−0.09	−0.97	0.63	−0.93	−1.76	−1.15	−2.29	−1.18
PSSRa	0	−0.33	−0.19	1.52	0.29	0.44	−1.03	−0.37	1.02	0.22	1.29
PSSRb	0	−0.25	0.05	1.91	0.62	0.51	−1.02	−0.33	1.04	0.34	1.47
PSSRc	0	0.13	0.36	1.43	0.33	0.66	−0.31	0.3	0.16	−0.29	1.02
PSND	15	−0.22	0.08	0.09	0.18	0.17	−0.66	−0.91	−0.91	−1.56	−1.24
VARI	12	−0.66	−1.14	−0.31	−0.74	0.09	−1.68	−1.68	−0.97	−2.3	−2.14
VARI2	12	−0.66	−1.14	−0.31	−0.74	0.09	−1.68	−1.68	−0.97	−2.3	−2.14
ARI	0	0.98	1.24	0.24	0.82	1.09	1.84	1.96	1.06	0.89	0.62
ARIm	12	0.33	1.05	−0.9	0.52	−0.21	1.84	1.7	−2.13	−1.37	−0.97
DCNI	0	−0.45	−0.4	0.74	0.69	0.52	−2.5	−1.17	0.35	0.22	0.06

Table S3.5 Effect sizes of the normalized wavelet features

Feature name	Response time	DAI 2	DAI 4	DAI 6	DAI 8	DAI 10	DAI 12	DAI 15	DAI 22	DAI 24	DAI 30
$WF_{404,3}$	0	0.86	0.43	0.94	0.84	1.3	−0.32	−0.43	0.85	0.26	0.38
$WF_{408,3}$	0	0.6	0.76	−0.23	0.57	−0.34	2.13	0.78	−0.35	−0.8	−1.22
$WF_{412,3}$	0	0.31	0.54	−0.38	0.19	−0.67	1.98	0.76	−0.63	−0.72	−1.12
$WF_{416,3}$	0	0.2	0.45	−0.43	0.07	−0.76	1.9	0.71	−0.71	−0.72	−1.11
$WF_{420,3}$	0	0.12	0.38	−0.47	0	−0.82	1.83	0.65	−0.76	−0.74	−1.11
$WF_{424,3}$	0	0.04	0.29	−0.49	−0.06	−0.86	1.75	0.53	−0.79	−0.76	−1.11
$WF_{428,3}$	0	−0.05	0.2	−0.53	−0.14	−0.9	1.64	0.24	−0.81	−0.78	−1.12
$WF_{432,3}$	0	−0.16	0.07	−0.58	−0.24	−0.94	1.45	−0.97	−0.8	−0.78	−1.11
$WF_{436,3}$	0	−0.31	−0.09	−0.67	−0.4	−1.01	1.14	−1.82	−0.77	−0.77	−1.09
$WF_{440,3}$	0	−0.55	−0.27	−0.86	−0.62	−1.13	0.74	−1.44	−0.76	−0.78	−1.03
$WF_{444,3}$	0	−0.83	−0.43	−1.15	−0.82	−1.26	0.5	−1.36	−0.79	−0.78	−0.9
$WF_{449,3}$	0	−1.11	−0.53	−1.51	−0.95	−1.36	0.45	−1.45	−0.85	−0.78	−0.76
$WF_{453,3}$	0	−1.24	−0.6	−1.8	−0.97	−1.36	0.51	−1.78	−0.88	−0.7	−0.58
$WF_{457,3}$	0	−1.31	−0.66	−1.95	−0.96	−1.34	0.56	−0.18	−0.91	−0.59	−0.42
$WF_{461,3}$	0	−1.3	−0.76	−1.86	−0.88	−1.29	0.68	0.5	−0.82	−0.26	−0.05
$WF_{465,3}$	0	−1.01	−0.77	−1.36	−0.62	−1.26	0.84	0.74	−0.51	0.54	0.86
$WF_{469,3}$	12	−0.12	−0.17	0.14	0.71	−0.74	0.99	0.95	1.35	2.75	2.54
$WF_{473,3}$	12	0.18	0.11	0.95	1.33	0.52	0.98	1.22	1.82	2.34	2.36
$WF_{477,3}$	15	0.24	0.19	1.1	1.3	0.79	0.8	1.56	1.63	1.93	2.06
$WF_{481,3}$	15	0.23	0.2	1.09	1.24	0.84	0.64	1.48	1.55	1.77	1.91
$WF_{486,3}$	15	0.18	0.18	1.02	1.15	0.83	0.48	1.02	1.46	1.65	1.79
$WF_{490,3}$	22	0.13	0.14	0.93	1.05	0.8	0.35	0.69	1.37	1.56	1.69
$WF_{494,3}$	22	0.09	0.11	0.84	0.95	0.76	0.26	0.5	1.3	1.5	1.62
$WF_{498,3}$	22	0.06	0.08	0.75	0.85	0.71	0.17	0.39	1.23	1.44	1.54
$WF_{502,3}$	22	0.03	0.04	0.67	0.75	0.67	0.09	0.32	1.17	1.39	1.47
$WF_{506,3}$	22	0.01	0.01	0.59	0.65	0.63	0.02	0.26	1.12	1.33	1.4
$WF_{510,3}$	22	−0.01	−0.04	0.51	0.53	0.58	−0.07	0.22	1.06	1.26	1.32
$WF_{515,3}$	22	−0.06	−0.12	0.38	0.37	0.49	−0.22	0.16	0.96	1.14	1.19
$WF_{519,3}$	24	−0.18	−0.32	0.09	0.02	0.25	−0.7	−0.02	0.72	0.82	0.84
$WF_{523,3}$	22	−0.87	−1.47	−1.91	−2.3	−1.78	−1.16	−0.49	−1.41	−2.17	−3.14
$WF_{527,3}$	22	−0.35	−0.36	−1.1	−1.58	−0.95	−0.42	−0.31	−1.66	−2.09	−2.27
$WF_{531,3}$	22	−0.18	−0.17	−0.81	−1.01	−0.77	−0.2	−0.24	−1.34	−1.69	−1.82
$WF_{535,3}$	22	−0.1	−0.09	−0.68	−0.8	−0.68	−0.06	−0.2	−1.19	−1.51	−1.63
$WF_{540,3}$	22	−0.04	−0.03	−0.61	−0.67	−0.6	0.07	−0.15	−1.09	−1.38	−1.5
$WF_{544,3}$	22	0	0.01	−0.55	−0.57	−0.54	0.18	−0.11	−1.02	−1.29	−1.4
$WF_{548,3}$	22	0.03	0.04	−0.53	−0.5	−0.5	0.27	−0.07	−0.97	−1.22	−1.33
$WF_{552,3}$	22	0.05	0.05	−0.52	−0.46	−0.48	0.33	−0.04	−0.95	−1.19	−1.28
$WF_{556,3}$	22	0.06	0.06	−0.53	−0.43	−0.48	0.36	−0.03	−0.95	−1.17	−1.26
$WF_{560,3}$	22	0.07	0.05	−0.56	−0.43	−0.49	0.37	−0.03	−0.97	−1.17	−1.26

$WF_{565,3}$	22	0.09	0.04	−0.58	−0.43	−0.5	0.35	−0.04	−1.01	−1.16	−1.26
$WF_{569,3}$	22	0.14	0.01	−0.66	−0.46	−0.52	0.2	−0.09	−1.11	−1.17	−1.3
$WF_{573,3}$	22	0.42	−0.09	−0.91	−0.51	−0.61	−0.58	−0.22	−1.44	−1.14	−1.39
$WF_{577,3}$	0	0.16	−0.1	0.06	0.2	0.3	−0.54	−0.07	−0.21	0.71	0.34
$WF_{581,3}$	24	0.06	−0.06	0.3	0.34	0.39	−0.49	−0.05	0.45	0.97	0.89
$WF_{586,3}$	24	0.04	−0.04	0.37	0.36	0.39	−0.45	−0.06	0.56	1.01	0.97
$WF_{590,3}$	24	0.02	−0.03	0.38	0.34	0.36	−0.43	−0.1	0.54	0.97	0.95
$WF_{594,3}$	24	0	−0.04	0.35	0.27	0.27	−0.46	−0.17	0.42	0.89	0.88
$WF_{598,3}$	0	−0.07	−0.08	0.21	0.12	0.04	−0.6	−0.28	0.08	0.64	0.69
$WF_{602,3}$	0	−0.24	−0.2	−0.19	−0.17	−0.48	−0.97	−0.42	−0.72	−0.01	0.16
$WF_{607,3}$	0	−0.54	−0.41	−0.85	−0.59	−1.18	−1.63	−0.48	−1.6	−0.86	−0.56
$WF_{611,3}$	0	−0.68	−0.52	−1.15	−0.78	−1.01	−2.07	−0.31	−1.47	−0.96	−0.59
$WF_{615,3}$	0	−0.6	−0.46	−0.82	−0.61	−0.44	−1.89	−0.07	−0.47	−0.19	0.04
$WF_{619,3}$	0	−0.53	−0.41	−0.52	−0.55	−0.24	−1.64	0.02	−0.06	0.22	0.23
$WF_{624,3}$	0	−0.59	−0.47	−0.59	−0.88	−0.49	−1.58	−0.08	−0.49	−0.19	−0.22
$WF_{628,3}$	0	−0.86	−0.73	−1.02	−1.87	−1.76	−1.62	−0.37	−0.89	−0.62	−0.49
$WF_{632,3}$	0	−0.49	−0.52	−1.11	−2.43	−1.82	−1.38	−0.58	−0.92	−0.7	−0.51
$WF_{636,3}$	0	−0.19	−0.26	−1.05	−2.07	−1.48	−0.98	−0.64	−0.9	−0.69	−0.45
$WF_{641,3}$	0	0	−0.11	−0.98	−1.83	−1.36	−0.63	−0.66	−0.85	−0.6	−0.3
$WF_{645,3}$	0	0.22	0.04	−0.78	−1.74	−1.34	−0.31	−0.69	−0.7	−0.32	0.03
$WF_{649,3}$	0	0.37	0.29	0.15	−0.99	−0.41	−0.1	−0.44	0.11	0.66	0.91
$WF_{653,3}$	22	0.15	0.22	0.63	0.48	0.58	−0.16	−0.07	1.1	1.38	1.79
$WF_{658,3}$	22	0.03	0.11	0.74	0.88	0.73	−0.42	0.1	1.09	1.23	1.32
$WF_{662,3}$	22	−0.03	0.06	0.76	0.98	0.76	−0.64	0.15	1.05	1.13	1.07
$WF_{666,3}$	22	−0.05	0.03	0.75	0.98	0.75	−0.79	0.15	1.02	1.07	0.95
$WF_{670,3}$	22	−0.07	0	0.71	0.92	0.72	−0.93	0.1	0.99	1.02	0.88
$WF_{675,3}$	22	−0.07	−0.03	0.65	0.8	0.67	−1.04	0.01	0.96	1	0.84
$WF_{679,3}$	22	−0.08	−0.07	0.57	0.65	0.6	−1.16	−0.09	0.92	0.97	0.81
$WF_{683,3}$	0	−0.09	−0.13	0.47	0.47	0.52	−1.26	−0.21	0.86	0.93	0.78
$WF_{687,3}$	0	−0.11	−0.22	0.34	0.27	0.42	−1.34	−0.33	0.77	0.86	0.72
$WF_{692,3}$	0	−0.14	−0.32	0.2	0.07	0.31	−1.38	−0.43	0.64	0.76	0.61
$WF_{696,3}$	0	−0.18	−0.44	0.05	−0.13	0.19	−1.37	−0.5	0.46	0.61	0.43
$WF_{700,3}$	0	−0.23	−0.56	−0.11	−0.3	0.06	−1.29	−0.53	0.23	0.41	0.14
$WF_{705,3}$	0	−0.29	−0.67	−0.24	−0.43	−0.06	−1.13	−0.51	−0.01	0.18	−0.27
$WF_{709,3}$	0	−0.34	−0.76	−0.33	−0.51	−0.18	−0.91	−0.46	−0.25	−0.07	−0.8
$WF_{713,3}$	0	−0.38	−0.81	−0.36	−0.54	−0.27	−0.63	−0.39	−0.48	−0.34	−1.44
$WF_{717,3}$	0	−0.42	−0.83	−0.33	−0.55	−0.38	−0.31	−0.29	−0.74	−0.67	−2.27
$WF_{722,3}$	22	−0.46	−0.82	−0.28	−0.55	−0.51	0.07	−0.17	−1.08	−1.18	−3.42
$WF_{726,3}$	22	−0.45	−0.72	−0.19	−0.52	−0.66	0.6	0.04	−1.59	−1.95	−4.2
$WF_{730,3}$	22	−0.25	−0.3	−0.13	−0.39	−0.64	1.4	0.54	−1.71	−1.95	−2.87
$WF_{735,3}$	12	0.05	0.28	−0.09	0.06	−0.38	1.94	0.95	−0.92	−1.14	−1.44
$WF_{739,3}$	0	0.15	0.49	−0.11	0.24	−0.23	1.47	0.73	−0.41	−0.62	−0.57
$WF_{743,3}$	0	0.19	0.55	−0.13	0.28	−0.15	1.04	0.6	−0.13	−0.3	0.01
$WF_{748,3}$	0	0.21	0.57	−0.13	0.3	−0.09	0.78	0.51	0.06	−0.07	0.43

$WF_{752,3}$	0	0.24	0.58	−0.1	0.31	−0.04	0.6	0.42	0.2	0.1	0.78
$WF_{756,3}$	0	0.28	0.58	−0.03	0.34	0.05	0.5	0.29	0.31	0.24	1.11
$WF_{761,3}$	0	0.34	0.58	0.05	0.36	0.16	0.43	0.13	0.38	0.32	1.38
$WF_{765,3}$	0	0.39	0.59	0.12	0.36	0.27	0.39	−0.02	0.39	0.35	1.58
$WF_{769,3}$	0	0.46	0.6	0.16	0.36	0.39	0.37	−0.14	0.37	0.35	1.66
$WF_{774,3}$	0	0.48	0.63	0.07	0.3	0.38	0.32	−0.15	0.27	0.31	1.6
$WF_{778,3}$	0	0.45	0.66	−0.11	0.21	0.26	0.25	−0.05	0.17	0.28	1.5
$WF_{782,3}$	0	0.35	0.68	−0.34	0.1	0.05	0.16	0.13	0.06	0.25	1.39
$WF_{787,3}$	0	0.26	0.69	−0.49	0.04	−0.1	0.09	0.28	−0.03	0.23	1.32
$WF_{791,3}$	0	0.15	0.64	−0.57	0.02	−0.22	0.03	0.36	−0.17	0.18	1.2
$WF_{795,3}$	0	−0.05	0.52	−0.64	−0.02	−0.4	−0.06	0.37	−0.37	0.01	0.99
$WF_{800,3}$	0	−0.41	0.29	−0.78	−0.19	−0.76	−0.31	0.32	−0.7	−0.35	0.62
$WF_{804,3}$	0	−0.92	−0.12	−0.97	−0.69	−1.34	−0.98	0.13	−1.4	−1.13	−0.26
$WF_{808,3}$	22	−1.5	−0.6	−0.13	−1.3	−2.35	−2.02	−0.31	−5.02	−4.58	−2
$WF_{813,3}$	22	−1.52	−0.77	0.6	−0.85	−4.83	−0.99	−0.69	−1.28	−2.02	−1.25
$WF_{817,3}$	24	−0.52	−0.41	0.86	−0.52	−2.53	−0.51	−0.67	−0.44	−1	−0.89
$WF_{821,3}$	0	0.08	−0.15	1.03	−0.32	−0.72	−0.28	−0.61	−0.18	−0.64	−0.72
$WF_{826,3}$	0	0.41	0.01	1.17	−0.19	−0.04	−0.13	−0.55	−0.1	−0.46	−0.62
$WF_{830,3}$	0	0.6	0.12	1.29	−0.09	0.3	−0.02	−0.47	−0.16	−0.46	−0.66
$WF_{835,3}$	0	0.67	0.05	1.41	−0.15	0.45	0	−0.4	−0.78	−0.76	−1.18
$WF_{839,3}$	22	0.67	−0.14	1.11	−0.23	0.88	0.07	−0.3	−1.34	−0.96	−0.83
$WF_{843,3}$	0	−0.19	−0.13	−0.87	−0.27	0.97	0.13	0.01	−0.53	−0.35	−0.42
$WF_{848,3}$	0	−0.06	0.24	−1.02	−0.17	0.55	0.31	0.2	−0.04	−0.06	−0.14
$WF_{852,3}$	0	0.29	0.62	−0.88	0.01	0.58	0.6	0.37	0.3	0.22	0.19
$WF_{857,3}$	0	0.56	0.79	−0.54	0.17	0.53	0.95	0.51	0.34	0.3	0.46
$WF_{861,3}$	0	0.57	0.75	−0.2	0.22	0.36	1.23	0.58	0.16	0.17	0.47
$WF_{865,3}$	0	0.48	0.69	−0.03	0.2	0.16	1.34	0.59	−0.04	−0.01	0.32
$WF_{870,3}$	0	0.4	0.66	0.04	0.17	0.02	1.4	0.56	−0.16	−0.14	0.17
$WF_{874,3}$	0	0.35	0.65	0.05	0.15	−0.06	1.43	0.53	−0.23	−0.21	0.08
$WF_{879,3}$	0	0.32	0.64	0.06	0.13	−0.12	1.46	0.52	−0.27	−0.25	0.02
$WF_{883,3}$	0	0.3	0.64	0.06	0.11	−0.15	1.49	0.5	−0.3	−0.28	−0.02
$WF_{887,3}$	0	0.28	0.64	0.07	0.09	−0.18	1.53	0.49	−0.32	−0.3	−0.05
$WF_{892,3}$	0	0.27	0.65	0.08	0.08	−0.2	1.59	0.48	−0.34	−0.33	−0.09
$WF_{896,3}$	0	0.25	0.66	0.11	0.05	−0.25	1.72	0.47	−0.39	−0.38	−0.16
$WF_{404,4}$	0	0.82	0.35	0.93	0.83	1.23	−0.6	−0.68	0.74	0.07	0.17
$WF_{408,4}$	24	0.63	0.77	−0.13	0.93	0.01	2.06	0.4	−0.08	−1.25	−1.53
$WF_{412,4}$	24	0.32	0.55	−0.34	0.31	−0.58	1.98	0.6	−0.61	−0.89	−1.24
$WF_{416,4}$	24	0.22	0.46	−0.41	0.14	−0.71	1.92	0.61	−0.69	−0.81	−1.17
$WF_{420,4}$	0	0.15	0.39	−0.44	0.05	−0.77	1.86	0.57	−0.73	−0.78	−1.14
$WF_{424,4}$	0	0.09	0.34	−0.47	−0.01	−0.81	1.81	0.5	−0.75	−0.77	−1.13
$WF_{428,4}$	0	0.04	0.28	−0.51	−0.07	−0.86	1.75	0.36	−0.77	−0.77	−1.12
$WF_{432,4}$	0	−0.03	0.22	−0.55	−0.14	−0.9	1.68	0.09	−0.79	−0.77	−1.11
$WF_{436,4}$	0	−0.11	0.14	−0.6	−0.23	−0.95	1.57	−0.53	−0.8	−0.77	−1.1
$WF_{440,4}$	0	−0.21	0.04	−0.69	−0.34	−1.02	1.43	−1.67	−0.81	−0.77	−1.07

$WF_{444,4}$	0	−0.34	−0.08	−0.83	−0.46	−1.1	1.25	−2.08	−0.81	−0.75	−1.02
$WF_{449,4}$	0	−0.51	−0.21	−1.01	−0.59	−1.18	1.06	−1.95	−0.81	−0.7	−0.91
$WF_{453,4}$	0	−0.73	−0.35	−1.23	−0.67	−1.24	0.92	−1.32	−0.78	−0.59	−0.7
$WF_{457,4}$	0	−1.05	−0.51	−1.38	−0.65	−1.29	0.86	−0.09	−0.68	−0.33	−0.26
$WF_{461,4}$	0	−1.19	−0.63	−1.05	−0.31	−1.24	0.9	0.62	−0.35	0.39	0.93
$WF_{465,4}$	12	−0.39	−0.26	0.04	0.74	−0.56	0.94	1.01	1.28	2.59	2.85
$WF_{469,4}$	12	−0.04	−0.01	0.63	1.12	0.34	0.86	1.3	1.9	2.5	2.44
$WF_{473,4}$	15	0.08	0.08	0.83	1.12	0.63	0.69	1.46	1.61	2.01	2.08
$WF_{477,4}$	15	0.11	0.11	0.88	1.07	0.72	0.54	1.36	1.48	1.78	1.88
$WF_{481,4}$	15	0.12	0.12	0.88	1.02	0.74	0.42	1.07	1.4	1.65	1.76
$WF_{486,4}$	15	0.1	0.11	0.85	0.96	0.74	0.33	0.81	1.34	1.57	1.68
$WF_{490,4}$	22	0.09	0.09	0.8	0.9	0.73	0.25	0.63	1.29	1.51	1.61
$WF_{494,4}$	22	0.07	0.07	0.75	0.83	0.71	0.19	0.51	1.24	1.46	1.55
$WF_{498,4}$	22	0.04	0.05	0.7	0.76	0.68	0.13	0.42	1.2	1.41	1.49
$WF_{502,4}$	22	0.02	0.02	0.64	0.69	0.65	0.06	0.36	1.15	1.36	1.44
$WF_{506,4}$	22	0	−0.02	0.58	0.61	0.61	−0.01	0.31	1.1	1.3	1.37
$WF_{510,4}$	22	−0.04	−0.07	0.5	0.5	0.56	−0.1	0.27	1.04	1.22	1.28
$WF_{515,4}$	22	−0.1	−0.15	0.37	0.33	0.47	−0.28	0.22	0.94	1.08	1.12
$WF_{519,4}$	0	−0.26	−0.41	0.03	−0.09	0.19	−0.92	0.04	0.69	0.71	0.72
$WF_{523,4}$	22	−0.86	−1.08	−1.82	−3.65	−1.37	−0.63	−0.26	−2.05	−2.91	−4.14
$WF_{527,4}$	22	−0.25	−0.28	−1	−1.3	−0.83	−0.24	−0.22	−1.46	−1.9	−2.13
$WF_{531,4}$	22	−0.13	−0.14	−0.78	−0.92	−0.71	−0.09	−0.19	−1.25	−1.6	−1.75
$WF_{535,4}$	22	−0.07	−0.08	−0.69	−0.77	−0.65	0.01	−0.16	−1.16	−1.47	−1.59
$WF_{540,4}$	22	−0.04	−0.04	−0.64	−0.67	−0.6	0.08	−0.14	−1.1	−1.38	−1.5
$WF_{544,4}$	22	−0.01	−0.01	−0.6	−0.61	−0.57	0.14	−0.12	−1.05	−1.32	−1.44
$WF_{548,4}$	22	0.01	0.01	−0.58	−0.56	−0.54	0.19	−0.1	−1.03	−1.28	−1.39
$WF_{552,4}$	22	0.03	0.02	−0.57	−0.52	−0.53	0.23	−0.08	−1.01	−1.24	−1.35
$WF_{556,4}$	22	0.05	0.03	−0.57	−0.49	−0.51	0.26	−0.07	−1.01	−1.22	−1.33
$WF_{560,4}$	22	0.06	0.03	−0.57	−0.48	−0.51	0.28	−0.07	−1.02	−1.21	−1.31
$WF_{565,4}$	22	0.08	0.03	−0.59	−0.47	−0.51	0.27	−0.07	−1.05	−1.2	−1.32
$WF_{569,4}$	22	0.12	0.03	−0.64	−0.48	−0.53	0.2	−0.11	−1.11	−1.21	−1.34
$WF_{573,4}$	22	0.19	0.02	−0.75	−0.51	−0.57	−0.13	−0.31	−1.26	−1.23	−1.41
$WF_{577,4}$	22	0.47	−0.06	−0.99	−0.59	−0.76	−0.61	−0.28	−1.66	−1.21	−1.52
$WF_{581,4}$	0	0.21	−0.08	−0.13	0.07	0.03	−0.56	−0.15	−1.06	0.1	−0.37
$WF_{586,4}$	0	0.08	−0.07	0.15	0.21	0.22	−0.54	−0.14	−0.03	0.7	0.55
$WF_{590,4}$	0	0.02	−0.07	0.22	0.22	0.23	−0.56	−0.14	0.19	0.79	0.73
$WF_{594,4}$	0	−0.02	−0.08	0.21	0.19	0.19	−0.6	−0.16	0.23	0.78	0.76
$WF_{598,4}$	0	−0.07	−0.11	0.16	0.13	0.12	−0.69	−0.19	0.17	0.72	0.74
$WF_{602,4}$	0	−0.14	−0.15	0.06	0.04	0.01	−0.83	−0.21	0.05	0.61	0.67
$WF_{607,4}$	0	−0.23	−0.21	−0.1	−0.11	−0.15	−1.04	−0.24	−0.16	0.44	0.56
$WF_{611,4}$	0	−0.35	−0.29	−0.32	−0.32	−0.36	−1.3	−0.26	−0.5	0.15	0.32
$WF_{615,4}$	0	−0.47	−0.39	−0.6	−0.61	−0.64	−1.58	−0.29	−1.02	−0.31	−0.13
$WF_{619,4}$	0	−0.59	−0.49	−0.91	−1.01	−1.04	−1.81	−0.33	−1.3	−0.65	−0.35
$WF_{624,4}$	0	−0.69	−0.58	−1.14	−1.5	−1.57	−1.92	−0.4	−1.15	−0.66	−0.36

$WF_{628,4}$	0	−0.69	−0.58	−1.21	−1.9	−1.97	−1.88	−0.48	−0.99	−0.58	−0.31
$WF_{632,4}$	0	−0.54	−0.47	−1.13	−2.04	−1.97	−1.74	−0.55	−0.86	−0.47	−0.2
$WF_{636,4}$	0	−0.33	−0.32	−0.84	−1.87	−1.64	−1.62	−0.59	−0.69	−0.24	0.02
$WF_{641,4}$	0	−0.12	−0.15	−0.16	−1.22	−0.66	−1.59	−0.51	−0.19	0.39	0.53
$WF_{645,4}$	22	−0.02	0	0.4	−0.18	0.2	−1.39	−0.29	0.87	1.33	1.63
$WF_{649,4}$	22	−0.01	0.04	0.59	0.45	0.52	−1.09	−0.11	1.04	1.29	1.53
$WF_{653,4}$	22	−0.02	0.03	0.65	0.68	0.62	−0.96	−0.02	1.03	1.17	1.21
$WF_{658,4}$	22	−0.04	0	0.65	0.75	0.65	−0.96	0	1	1.09	1.04
$WF_{662,4}$	22	−0.06	−0.03	0.63	0.73	0.65	−1.01	−0.02	0.97	1.04	0.94
$WF_{666,4}$	22	−0.07	−0.06	0.59	0.67	0.62	−1.08	−0.07	0.93	1	0.88
$WF_{670,4}$	22	−0.08	−0.1	0.54	0.59	0.58	−1.16	−0.13	0.89	0.96	0.82
$WF_{675,4}$	0	−0.1	−0.15	0.47	0.48	0.52	−1.23	−0.2	0.84	0.91	0.77
$WF_{679,4}$	0	−0.12	−0.21	0.39	0.35	0.46	−1.28	−0.27	0.78	0.86	0.71
$WF_{683,4}$	0	−0.14	−0.28	0.31	0.22	0.39	−1.31	−0.33	0.69	0.79	0.63
$WF_{687,4}$	0	−0.16	−0.35	0.21	0.08	0.31	−1.3	−0.38	0.59	0.71	0.52
$WF_{692,4}$	0	−0.19	−0.43	0.12	−0.05	0.23	−1.26	−0.42	0.47	0.6	0.37
$WF_{696,4}$	0	−0.22	−0.51	0.02	−0.17	0.14	−1.18	−0.44	0.32	0.47	0.17
$WF_{700,4}$	0	−0.25	−0.58	−0.07	−0.27	0.05	−1.07	−0.44	0.16	0.32	−0.09
$WF_{705,4}$	0	−0.29	−0.65	−0.15	−0.36	−0.04	−0.93	−0.42	−0.02	0.14	−0.43
$WF_{709,4}$	0	−0.33	−0.71	−0.22	−0.43	−0.14	−0.75	−0.39	−0.22	−0.08	−0.88
$WF_{713,4}$	0	−0.37	−0.76	−0.28	−0.48	−0.25	−0.55	−0.34	−0.45	−0.34	−1.48
$WF_{717,4}$	0	−0.41	−0.8	−0.33	−0.52	−0.38	−0.3	−0.27	−0.73	−0.7	−2.33
$WF_{722,4}$	22	−0.47	−0.82	−0.4	−0.56	−0.58	0.03	−0.15	−1.12	−1.26	−3.46
$WF_{726,4}$	22	−0.51	−0.76	−0.46	−0.6	−0.8	0.52	0.06	−1.63	−1.96	−3.68
$WF_{730,4}$	22	−0.27	−0.37	−0.38	−0.51	−0.7	1.3	0.58	−1.56	−1.74	−2.42
$WF_{735,4}$	12	0	0.17	−0.24	−0.08	−0.45	1.81	0.95	−0.91	−1.1	−1.35
$WF_{739,4}$	0	0.12	0.41	−0.16	0.16	−0.28	1.53	0.74	−0.48	−0.68	−0.67
$WF_{743,4}$	0	0.18	0.5	−0.12	0.25	−0.17	1.19	0.58	−0.23	−0.41	−0.19
$WF_{748,4}$	0	0.22	0.54	−0.09	0.29	−0.1	0.95	0.48	−0.06	−0.21	0.18
$WF_{752,4}$	0	0.25	0.56	−0.06	0.31	−0.03	0.78	0.39	0.07	−0.07	0.48
$WF_{756,4}$	0	0.28	0.58	−0.04	0.32	0.02	0.66	0.31	0.16	0.05	0.74
$WF_{761,4}$	0	0.31	0.59	−0.02	0.33	0.08	0.56	0.23	0.22	0.14	0.96
$WF_{765,4}$	0	0.34	0.59	0	0.33	0.13	0.49	0.16	0.25	0.2	1.14
$WF_{769,4}$	0	0.36	0.6	0	0.32	0.17	0.42	0.1	0.26	0.25	1.29
$WF_{774,4}$	0	0.38	0.61	−0.02	0.3	0.19	0.36	0.06	0.25	0.27	1.38
$WF_{778,4}$	0	0.38	0.62	−0.07	0.27	0.17	0.31	0.05	0.2	0.27	1.42
$WF_{782,4}$	0	0.36	0.63	−0.15	0.22	0.12	0.24	0.07	0.13	0.24	1.41
$WF_{787,4}$	0	0.31	0.62	−0.24	0.16	0.02	0.17	0.1	0.03	0.19	1.36
$WF_{791,4}$	0	0.22	0.6	−0.34	0.08	−0.14	0.08	0.14	−0.1	0.1	1.28
$WF_{795,4}$	0	0.07	0.55	−0.42	−0.03	−0.35	−0.05	0.16	−0.27	−0.06	1.17
$WF_{800,4}$	0	−0.14	0.46	−0.43	−0.2	−0.64	−0.26	0.13	−0.54	−0.34	1.02
$WF_{804,4}$	0	−0.44	0.31	−0.17	−0.48	−1.05	−0.71	0	−1.07	−0.99	0.66
$WF_{808,4}$	22	−0.88	0.06	0.65	−0.93	−1.74	−1.42	−0.33	−2.77	−3.18	−0.85
$WF_{813,4}$	22	−1.14	−0.21	0.89	−1	−3.25	−0.99	−0.66	−2.14	−2.64	−1.07

$WF_{817,4}$	22	−0.6	−0.27	0.98	−0.78	−4.02	−0.64	−0.7	−1.03	−1.54	−1.02
$WF_{821,4}$	24	−0.18	−0.22	1.04	−0.63	−1.85	−0.46	−0.67	−0.68	−1.16	−1
$WF_{826,4}$	24	0.09	−0.15	1.11	−0.57	−0.89	−0.33	−0.65	−0.55	−1.03	−1.07
$WF_{830,4}$	24	0.33	−0.04	1.2	−0.59	−0.39	−0.2	−0.63	−0.56	−1.08	−1.32
$WF_{835,4}$	22	0.72	0.28	1.38	−0.8	0.07	0.09	−0.63	−0.84	−1.57	−2.23
$WF_{839,4}$	22	1.05	1.11	1.75	−0.4	0.8	1.46	−0.43	−0.87	−1.03	−0.83
$WF_{843,3}$	0	0.64	0.8	0.22	−0.01	0.44	1.32	0.35	−0.2	−0.25	−0.12
$WF_{848,3}$	0	0.48	0.7	−0.12	0.09	0.23	1.21	0.48	−0.11	−0.11	0.08
$WF_{852,4}$	0	0.42	0.68	−0.13	0.13	0.12	1.25	0.51	−0.11	−0.09	0.14
$WF_{857,4}$	0	0.39	0.67	−0.08	0.14	0.04	1.32	0.53	−0.14	−0.12	0.14
$WF_{861,4}$	0	0.37	0.66	−0.03	0.14	−0.01	1.37	0.53	−0.18	−0.15	0.12
$WF_{865,4}$	0	0.35	0.66	0.01	0.14	−0.05	1.42	0.53	−0.21	−0.19	0.08
$WF_{870,4}$	0	0.34	0.65	0.03	0.13	−0.09	1.45	0.52	−0.24	−0.22	0.05
$WF_{874,4}$	0	0.32	0.65	0.05	0.12	−0.11	1.48	0.52	−0.27	−0.24	0.02
$WF_{879,4}$	0	0.31	0.65	0.06	0.11	−0.14	1.5	0.51	−0.29	−0.26	0
$WF_{883,4}$	0	0.3	0.65	0.07	0.1	−0.15	1.53	0.5	−0.3	−0.28	−0.03
$WF_{887,4}$	0	0.29	0.65	0.08	0.1	−0.17	1.57	0.5	−0.32	−0.3	−0.05
$WF_{892,4}$	0	0.28	0.65	0.09	0.09	−0.19	1.63	0.5	−0.34	−0.33	−0.09
$WF_{896,4}$	0	0.25	0.67	0.14	0.06	−0.24	1.81	0.49	−0.39	−0.39	−0.19
$WF_{404,5}$	0	0.77	0.27	0.92	0.82	1.2	−0.79	−0.89	0.68	−0.07	0.02
$WF_{408,5}$	24	0.62	0.73	−0.02	1.18	0.43	1.84	−0.48	0.23	−1.76	−2.04
$WF_{412,5}$	24	0.32	0.53	−0.31	0.45	−0.47	1.95	0.21	−0.58	−1.14	−1.41
$WF_{416,5}$	24	0.21	0.44	−0.39	0.21	−0.66	1.9	0.36	−0.69	−0.94	−1.27
$WF_{420,5}$	24	0.15	0.39	−0.44	0.09	−0.74	1.86	0.39	−0.73	−0.86	−1.2
$WF_{424,5}$	24	0.11	0.35	−0.47	0.02	−0.79	1.82	0.36	−0.74	−0.82	−1.17
$WF_{428,5}$	0	0.06	0.3	−0.5	−0.04	−0.84	1.78	0.3	−0.76	−0.8	−1.14
$WF_{432,5}$	0	0.02	0.26	−0.53	−0.1	−0.87	1.73	0.2	−0.77	−0.78	−1.12
$WF_{436,5}$	0	−0.03	0.22	−0.57	−0.15	−0.91	1.68	0.07	−0.77	−0.76	−1.1
$WF_{440,5}$	0	−0.08	0.17	−0.61	−0.2	−0.96	1.62	−0.1	−0.78	−0.74	−1.07
$WF_{444,5}$	0	−0.14	0.11	−0.67	−0.24	−1	1.55	−0.24	−0.77	−0.7	−1.02
$WF_{449,5}$	0	−0.23	0.05	−0.73	−0.26	−1.06	1.47	−0.24	−0.74	−0.63	−0.93
$WF_{453,5}$	0	−0.32	−0.01	−0.78	−0.2	−1.1	1.41	0.04	−0.65	−0.47	−0.75
$WF_{457,5}$	0	−0.49	−0.1	−0.77	0.04	−1.1	1.33	0.46	−0.42	−0.07	−0.28
$WF_{461,5}$	24	−0.52	−0.14	−0.25	0.71	−0.67	1.22	0.86	0.51	1.3	1.52
$WF_{465,5}$	12	−0.2	−0.04	0.43	1	0.12	1	1.09	1.99	2.69	2.57
$WF_{469,5}$	15	−0.04	0.03	0.66	1	0.47	0.75	1.16	1.65	2.12	2.12
$WF_{473,5}$	15	0.03	0.06	0.74	0.96	0.61	0.56	1.09	1.48	1.84	1.9
$WF_{477,5}$	15	0.05	0.07	0.76	0.92	0.66	0.43	0.96	1.38	1.68	1.76
$WF_{481,5}$	15	0.06	0.07	0.76	0.88	0.68	0.33	0.83	1.33	1.59	1.68
$WF_{486,5}$	22	0.06	0.06	0.75	0.85	0.69	0.27	0.71	1.28	1.52	1.62
$WF_{490,5}$	22	0.05	0.05	0.73	0.8	0.68	0.21	0.62	1.25	1.47	1.56
$WF_{494,5}$	22	0.04	0.04	0.7	0.76	0.67	0.16	0.54	1.21	1.42	1.51
$WF_{498,5}$	22	0.02	0.02	0.66	0.7	0.65	0.11	0.49	1.17	1.38	1.46
$WF_{502,5}$	22	0.01	−0.01	0.62	0.65	0.63	0.06	0.44	1.14	1.33	1.41

$WF_{506,5}$	22	−0.02	−0.04	0.57	0.58	0.6	0	0.42	1.1	1.27	1.34
$WF_{510,5}$	22	−0.05	−0.09	0.49	0.48	0.56	−0.08	0.42	1.04	1.19	1.24
$WF_{515,5}$	22	−0.13	−0.19	0.35	0.29	0.47	−0.26	0.5	0.95	1.03	1.07
$WF_{519,5}$	0	−0.38	−0.65	−0.15	−0.39	0.02	−0.69	0.31	0.63	0.48	0.49
$WF_{523,5}$	22	−0.45	−0.52	−1.28	−1.9	−0.91	−0.21	−0.08	−1.62	−2.34	−3.02
$WF_{527,5}$	22	−0.17	−0.21	−0.88	−1.04	−0.73	−0.08	−0.13	−1.29	−1.7	−1.92
$WF_{531,5}$	22	−0.1	−0.12	−0.76	−0.84	−0.66	−0.01	−0.14	−1.19	−1.53	−1.69
$WF_{535,5}$	22	−0.06	−0.08	−0.7	−0.74	−0.63	0.05	−0.14	−1.14	−1.44	−1.57
$WF_{540,5}$	22	−0.03	−0.05	−0.66	−0.68	−0.6	0.09	−0.13	−1.1	−1.38	−1.51
$WF_{544,5}$	22	−0.01	−0.03	−0.63	−0.63	−0.58	0.12	−0.12	−1.08	−1.34	−1.46
$WF_{548,5}$	22	0	−0.01	−0.62	−0.59	−0.57	0.15	−0.11	−1.06	−1.31	−1.43
$WF_{552,5}$	22	0.02	0	−0.61	−0.57	−0.55	0.17	−0.11	−1.06	−1.29	−1.4
$WF_{556,5}$	22	0.03	0.01	−0.6	−0.55	−0.55	0.19	−0.1	−1.06	−1.27	−1.39
$WF_{560,5}$	22	0.05	0.01	−0.61	−0.53	−0.54	0.19	−0.11	−1.07	−1.26	−1.38
$WF_{565,5}$	22	0.06	0.02	−0.62	−0.53	−0.54	0.18	−0.12	−1.09	−1.25	−1.38
$WF_{569,5}$	22	0.08	0.02	−0.65	−0.54	−0.56	0.13	−0.15	−1.13	−1.26	−1.4
$WF_{573,5}$	22	0.12	0.01	−0.71	−0.56	−0.59	0	−0.23	−1.21	−1.27	−1.43
$WF_{577,5}$	22	0.17	−0.01	−0.83	−0.64	−0.66	−0.46	−0.58	−1.36	−1.3	−1.49
$WF_{581,5}$	22	0.27	−0.08	−1.09	−0.85	−0.89	−0.87	−0.54	−1.68	−1.34	−1.6
$WF_{586,5}$	22	0.21	−0.16	−0.78	−0.51	−0.96	−0.77	−0.29	−2.03	−1.05	−1.46
$WF_{590,5}$	0	0.05	−0.14	−0.23	−0.1	−0.22	−0.74	−0.22	−1.18	−0.09	−0.4
$WF_{594,5}$	0	−0.02	−0.14	−0.06	−0.01	−0.05	−0.75	−0.2	−0.5	0.36	0.23
$WF_{598,5}$	0	−0.08	−0.15	−0.02	−0.01	−0.03	−0.79	−0.2	−0.26	0.49	0.45
$WF_{602,5}$	0	−0.13	−0.17	−0.04	−0.06	−0.07	−0.88	−0.21	−0.21	0.51	0.53
$WF_{607,5}$	0	−0.18	−0.2	−0.1	−0.15	−0.15	−0.99	−0.23	−0.26	0.47	0.55
$WF_{611,5}$	0	−0.24	−0.24	−0.19	−0.27	−0.26	−1.12	−0.25	−0.4	0.38	0.49
$WF_{615,5}$	0	−0.3	−0.28	−0.31	−0.44	−0.41	−1.29	−0.28	−0.61	0.21	0.34
$WF_{619,5}$	0	−0.34	−0.31	−0.4	−0.62	−0.55	−1.46	−0.32	−0.73	0.08	0.23
$WF_{624,5}$	0	−0.36	−0.33	−0.41	−0.75	−0.6	−1.61	−0.34	−0.64	0.12	0.28
$WF_{628,5}$	0	−0.32	−0.3	−0.28	−0.73	−0.46	−1.72	−0.36	−0.31	0.4	0.53
$WF_{632,5}$	24	−0.24	−0.23	−0.01	−0.51	−0.15	−1.76	−0.33	0.27	0.89	1.05
$WF_{636,5}$	24	−0.17	−0.15	0.25	−0.15	0.15	−1.66	−0.27	0.72	1.17	1.48
$WF_{641,5}$	22	−0.11	−0.1	0.42	0.18	0.36	−1.46	−0.2	0.9	1.18	1.38
$WF_{645,5}$	22	−0.08	−0.08	0.5	0.38	0.47	−1.3	−0.15	0.93	1.12	1.19
$WF_{649,5}$	22	−0.08	−0.08	0.53	0.48	0.53	−1.21	−0.14	0.93	1.07	1.05
$WF_{653,5}$	22	−0.08	−0.09	0.53	0.51	0.54	−1.18	−0.14	0.9	1.02	0.95
$WF_{658,5}$	22	−0.09	−0.12	0.51	0.5	0.54	−1.18	−0.16	0.88	0.98	0.88
$WF_{662,5}$	22	−0.1	−0.15	0.48	0.46	0.52	−1.2	−0.19	0.84	0.93	0.82
$WF_{666,5}$	0	−0.11	−0.19	0.43	0.4	0.48	−1.23	−0.22	0.8	0.89	0.75
$WF_{670,5}$	0	−0.12	−0.23	0.39	0.32	0.45	−1.24	−0.26	0.75	0.84	0.69
$WF_{675,5}$	0	−0.14	−0.28	0.33	0.24	0.4	−1.25	−0.3	0.69	0.79	0.62
$WF_{679,5}$	0	−0.16	−0.33	0.27	0.15	0.35	−1.24	−0.33	0.62	0.73	0.54
$WF_{683,5}$	0	−0.18	−0.38	0.21	0.06	0.3	−1.22	−0.36	0.54	0.66	0.43
$WF_{687,5}$	0	−0.19	−0.43	0.15	−0.02	0.24	−1.17	−0.38	0.45	0.58	0.31

$WF_{692,5}$	0	−0.22	−0.49	0.08	−0.11	0.18	−1.11	−0.39	0.34	0.48	0.16
$WF_{696,5}$	0	−0.24	−0.54	0.02	−0.18	0.11	−1.03	−0.39	0.23	0.37	−0.02
$WF_{700,5}$	0	−0.27	−0.59	−0.04	−0.25	0.04	−0.93	−0.38	0.11	0.25	−0.25
$WF_{705,5}$	0	−0.29	−0.64	−0.11	−0.32	−0.03	−0.81	−0.36	−0.04	0.1	−0.54
$WF_{709,5}$	0	−0.33	−0.69	−0.17	−0.38	−0.12	−0.67	−0.34	−0.2	−0.08	−0.92
$WF_{713,5}$	0	−0.36	−0.73	−0.24	−0.43	−0.22	−0.51	−0.3	−0.39	−0.31	−1.45
$WF_{717,5}$	0	−0.41	−0.78	−0.34	−0.48	−0.37	−0.29	−0.23	−0.66	−0.65	−2.26
$WF_{722,5}$	22	−0.49	−0.82	−0.48	−0.54	−0.6	0	−0.13	−1.05	−1.19	−3.35
$WF_{726,5}$	22	−0.54	−0.79	−0.62	−0.62	−0.86	0.46	0.07	−1.56	−1.84	−3.41
$WF_{730,5}$	22	−0.28	−0.43	−0.52	−0.58	−0.74	1.18	0.53	−1.47	−1.62	−2.23
$WF_{735,5}$	12	−0.01	0.09	−0.33	−0.18	−0.48	1.7	0.86	−0.91	−1.07	−1.31
$WF_{739,5}$	0	0.11	0.34	−0.22	0.08	−0.31	1.53	0.68	−0.54	−0.71	−0.72
$WF_{743,5}$	0	0.17	0.45	−0.15	0.19	−0.2	1.26	0.55	−0.31	−0.48	−0.31
$WF_{748,5}$	0	0.22	0.5	−0.11	0.25	−0.12	1.05	0.46	−0.15	−0.3	0.01
$WF_{752,5}$	0	0.24	0.54	−0.09	0.27	−0.07	0.89	0.39	−0.04	−0.18	0.27
$WF_{756,5}$	0	0.27	0.56	−0.07	0.29	−0.02	0.77	0.33	0.04	−0.08	0.49
$WF_{761,5}$	0	0.29	0.57	−0.05	0.3	0.02	0.67	0.28	0.1	0	0.68
$WF_{765,5}$	0	0.3	0.58	−0.05	0.3	0.05	0.59	0.23	0.14	0.07	0.84
$WF_{769,5}$	0	0.32	0.59	−0.04	0.3	0.08	0.52	0.19	0.16	0.12	0.98
$WF_{774,5}$	0	0.32	0.6	−0.06	0.28	0.08	0.45	0.17	0.16	0.15	1.08
$WF_{778,5}$	0	0.33	0.6	−0.07	0.27	0.08	0.39	0.14	0.15	0.17	1.17
$WF_{782,5}$	0	0.32	0.6	−0.09	0.24	0.06	0.33	0.12	0.12	0.17	1.24
$WF_{787,5}$	0	0.3	0.6	−0.12	0.2	0.01	0.26	0.1	0.07	0.14	1.27
$WF_{791,5}$	0	0.27	0.6	−0.14	0.15	−0.08	0.19	0.09	0	0.08	1.28
$WF_{795,5}$	0	0.23	0.59	−0.12	0.08	−0.18	0.1	0.06	−0.1	−0.01	1.28
$WF_{800,5}$	0	0.16	0.57	−0.05	−0.01	−0.33	−0.02	0.02	−0.25	−0.16	1.25
$WF_{804,5}$	0	0.05	0.55	0.18	−0.15	−0.56	−0.21	−0.06	−0.49	−0.45	1.16
$WF_{808,5}$	22	−0.07	0.53	0.73	−0.36	−0.87	−0.54	−0.2	−0.93	−1.06	0.89
$WF_{813,5}$	0	−0.2	0.45	1.19	−0.62	−1.27	−0.91	−0.52	−1.8	−2.31	−0.18
$WF_{817,5}$	22	−0.23	0.41	1.24	−0.85	−1.79	−0.77	−0.78	−2.71	−3.38	−1.13
$WF_{821,5}$	15	−0.01	0.43	1.27	−0.92	−2.02	−0.46	−0.82	−2.49	−3.22	−1.68
$WF_{826,5}$	22	0.37	0.69	1.4	−0.82	−1.41	0	−0.78	−2.57	−3.04	−2.27
$WF_{830,5}$	22	0.55	0.94	1.56	−0.51	−0.65	0.92	−0.52	−1.57	−1.85	−1.38
$WF_{835,5}$	0	0.52	0.83	1.19	−0.15	−0.19	1.84	0.15	−0.62	−0.78	−0.46
$WF_{839,5}$	0	0.46	0.74	0.5	0.01	−0.04	1.65	0.41	−0.34	−0.41	−0.14
$WF_{843,5}$	0	0.42	0.7	0.19	0.07	−0.02	1.5	0.48	−0.26	−0.27	−0.02
$WF_{848,5}$	0	0.39	0.68	0.08	0.1	−0.02	1.45	0.5	−0.23	−0.23	0.03
$WF_{852,5}$	0	0.37	0.67	0.04	0.12	−0.04	1.43	0.51	−0.22	−0.21	0.05
$WF_{857,5}$	0	0.35	0.66	0.03	0.12	−0.06	1.43	0.52	−0.23	−0.21	0.05
$WF_{861,5}$	0	0.34	0.66	0.03	0.12	−0.08	1.45	0.52	−0.24	−0.22	0.04
$WF_{865,5}$	0	0.33	0.65	0.04	0.12	−0.1	1.47	0.52	−0.25	−0.23	0.03
$WF_{870,5}$	0	0.32	0.65	0.04	0.12	−0.11	1.48	0.51	−0.26	−0.24	0.02
$WF_{874,5}$	0	0.32	0.65	0.05	0.11	−0.12	1.5	0.51	−0.28	−0.25	0
$WF_{879,5}$	0	0.31	0.65	0.06	0.11	−0.14	1.53	0.51	−0.29	−0.27	−0.01

$WF_{883,5}$	0	0.3	0.65	0.07	0.11	−0.15	1.56	0.51	−0.3	−0.28	−0.03
$WF_{887,5}$	0	0.3	0.66	0.08	0.1	−0.16	1.6	0.51	−0.31	−0.3	−0.06
$WF_{892,5}$	0	0.29	0.66	0.11	0.09	−0.18	1.67	0.51	−0.33	−0.32	−0.09
$WF_{896,5}$	0	0.26	0.68	0.17	0.07	−0.22	1.91	0.53	−0.39	−0.38	−0.2
$WF_{404,6}$	0	0.7	0.18	0.88	0.81	1.18	−0.93	−1.02	0.64	−0.18	−0.09
$WF_{408,6}$	24	0.57	0.64	0.07	1.22	0.74	1.42	−1.06	0.36	−1.76	−2.7
$WF_{412,6}$	24	0.29	0.49	−0.29	0.62	−0.32	1.87	−0.65	−0.48	−1.56	−1.67
$WF_{416,6}$	24	0.2	0.42	−0.39	0.29	−0.61	1.87	−0.13	−0.69	−1.12	−1.39
$WF_{420,6}$	24	0.15	0.37	−0.44	0.15	−0.72	1.84	0.09	−0.73	−0.97	−1.28
$WF_{424,6}$	24	0.1	0.34	−0.47	0.06	−0.78	1.81	0.16	−0.75	−0.89	−1.22
$WF_{428,6}$	24	0.07	0.31	−0.5	0.01	−0.82	1.78	0.19	−0.75	−0.84	−1.17
$WF_{432,6}$	0	0.04	0.28	−0.52	−0.03	−0.85	1.75	0.19	−0.75	−0.8	−1.14
$WF_{436,6}$	0	0.01	0.26	−0.54	−0.06	−0.89	1.72	0.2	−0.74	−0.76	−1.1
$WF_{440,6}$	0	−0.02	0.23	−0.56	−0.07	−0.92	1.69	0.21	−0.73	−0.71	−1.06
$WF_{444,6}$	0	−0.06	0.21	−0.58	−0.04	−0.95	1.66	0.26	−0.69	−0.64	−0.99
$WF_{449,6}$	0	−0.1	0.19	−0.59	0.03	−0.97	1.63	0.39	−0.62	−0.53	−0.9
$WF_{453,6}$	0	−0.16	0.18	−0.57	0.21	−0.97	1.58	0.58	−0.48	−0.31	−0.7
$WF_{457,6}$	0	−0.23	0.18	−0.44	0.6	−0.82	1.51	0.78	−0.08	0.23	−0.21
$WF_{461,6}$	12	−0.21	0.16	0.04	0.96	−0.28	1.37	0.92	1.16	1.63	1.34
$WF_{465,6}$	12	−0.11	0.09	0.5	0.99	0.22	1.12	0.94	1.82	2.44	2.38
$WF_{469,6}$	12	−0.04	0.06	0.64	0.94	0.45	0.86	0.91	1.57	2.04	2.04
$WF_{473,6}$	15	0	0.05	0.68	0.89	0.56	0.63	0.86	1.44	1.8	1.84
$WF_{477,6}$	22	0.02	0.04	0.7	0.85	0.61	0.46	0.79	1.35	1.66	1.72
$WF_{481,6}$	22	0.02	0.04	0.7	0.81	0.63	0.35	0.74	1.3	1.57	1.64
$WF_{486,6}$	22	0.03	0.03	0.69	0.78	0.64	0.28	0.69	1.26	1.51	1.58
$WF_{490,6}$	22	0.02	0.02	0.68	0.75	0.65	0.22	0.64	1.23	1.46	1.54
$WF_{494,6}$	22	0.02	0.01	0.66	0.71	0.64	0.17	0.61	1.2	1.41	1.49
$WF_{498,6}$	22	0.01	−0.01	0.63	0.67	0.63	0.13	0.59	1.17	1.37	1.44
$WF_{502,6}$	22	−0.01	−0.03	0.6	0.62	0.62	0.1	0.59	1.15	1.32	1.39
$WF_{506,6}$	22	−0.03	−0.06	0.55	0.56	0.6	0.07	0.64	1.11	1.26	1.32
$WF_{510,6}$	15	−0.07	−0.12	0.47	0.45	0.56	0.03	0.81	1.06	1.17	1.21
$WF_{515,6}$	15	−0.17	−0.28	0.29	0.2	0.47	−0.04	1.29	0.96	0.96	0.98
$WF_{519,6}$	0	−0.62	−1.01	−0.71	−1.73	−0.81	−0.03	0.29	0.23	−0.27	−0.22
$WF_{523,6}$	22	−0.24	−0.31	−0.98	−1.16	−0.72	0	0.02	−1.27	−1.82	−2.21
$WF_{527,6}$	22	−0.12	−0.16	−0.81	−0.89	−0.66	0.03	−0.06	−1.19	−1.58	−1.79
$WF_{531,6}$	22	−0.07	−0.11	−0.74	−0.78	−0.63	0.05	−0.09	−1.15	−1.48	−1.64
$WF_{535,6}$	22	−0.05	−0.07	−0.7	−0.72	−0.61	0.07	−0.11	−1.13	−1.42	−1.57
$WF_{540,6}$	22	−0.03	−0.05	−0.67	−0.68	−0.6	0.09	−0.11	−1.11	−1.39	−1.52
$WF_{544,6}$	22	−0.01	−0.04	−0.66	−0.65	−0.59	0.11	−0.12	−1.1	−1.36	−1.49
$WF_{548,6}$	22	0	−0.03	−0.65	−0.62	−0.58	0.12	−0.12	−1.09	−1.34	−1.46
$WF_{552,6}$	22	0.01	−0.02	−0.64	−0.61	−0.57	0.13	−0.12	−1.09	−1.32	−1.45
$WF_{556,6}$	22	0.02	−0.01	−0.64	−0.59	−0.57	0.13	−0.12	−1.1	−1.31	−1.43
$WF_{560,6}$	22	0.03	−0.01	−0.64	−0.58	−0.57	0.13	−0.13	−1.11	−1.3	−1.43
$WF_{565,6}$	22	0.04	0	−0.65	−0.58	−0.58	0.11	−0.15	−1.13	−1.3	−1.43

$WF_{569,6}$	22	0.06	0	−0.68	−0.59	−0.59	0.06	−0.17	−1.16	−1.3	−1.44
$WF_{573,6}$	22	0.07	−0.01	−0.71	−0.62	−0.61	−0.03	−0.23	−1.21	−1.31	−1.46
$WF_{577,6}$	22	0.08	−0.02	−0.78	−0.67	−0.66	−0.25	−0.35	−1.29	−1.33	−1.49
$WF_{581,6}$	22	0.1	−0.05	−0.9	−0.78	−0.75	−0.76	−0.7	−1.42	−1.36	−1.53
$WF_{586,6}$	6	0.12	−0.12	−1.12	−1.04	−0.95	−1.29	−0.89	−1.63	−1.4	−1.59
$WF_{590,6}$	22	0.09	−0.24	−1.3	−1.26	−1.38	−1.16	−0.5	−1.92	−1.39	−1.6
$WF_{594,6}$	22	−0.04	−0.26	−0.9	−0.74	−1.26	−1.05	−0.35	−2.11	−1.13	−1.39
$WF_{598,6}$	0	−0.1	−0.23	−0.51	−0.43	−0.63	−1.02	−0.3	−1.7	−0.56	−0.8
$WF_{602,6}$	0	−0.13	−0.22	−0.31	−0.31	−0.38	−1.02	−0.27	−1.09	−0.06	−0.17
$WF_{607,6}$	0	−0.16	−0.22	−0.22	−0.28	−0.28	−1.07	−0.26	−0.7	0.23	0.23
$WF_{611,6}$	0	−0.19	−0.22	−0.16	−0.28	−0.23	−1.14	−0.26	−0.42	0.41	0.5
$WF_{615,6}$	0	−0.2	−0.22	−0.1	−0.27	−0.16	−1.22	−0.26	−0.16	0.59	0.75
$WF_{619,6}$	0	−0.21	−0.21	−0.02	−0.23	−0.08	−1.32	−0.26	0.11	0.76	0.96
$WF_{624,6}$	24	−0.19	−0.2	0.09	−0.15	0.04	−1.39	−0.26	0.38	0.91	1.13
$WF_{628,6}$	24	−0.17	−0.18	0.21	−0.03	0.17	−1.42	−0.25	0.6	1	1.18
$WF_{632,6}$	24	−0.15	−0.16	0.31	0.1	0.28	−1.41	−0.23	0.73	1.03	1.13
$WF_{636,6}$	24	−0.13	−0.15	0.38	0.21	0.37	−1.37	−0.22	0.79	1.02	1.05
$WF_{641,6}$	22	−0.12	−0.15	0.41	0.29	0.42	−1.32	−0.21	0.82	0.99	0.97
$WF_{645,6}$	22	−0.11	−0.16	0.43	0.33	0.44	−1.28	−0.21	0.81	0.96	0.9
$WF_{649,6}$	24	−0.11	−0.18	0.43	0.34	0.46	−1.25	−0.22	0.8	0.93	0.84
$WF_{653,6}$	0	−0.12	−0.2	0.41	0.33	0.45	−1.24	−0.24	0.77	0.89	0.78
$WF_{658,6}$	0	−0.13	−0.23	0.38	0.3	0.43	−1.24	−0.26	0.74	0.85	0.72
$WF_{662,6}$	0	−0.13	−0.26	0.36	0.26	0.41	−1.23	−0.28	0.7	0.82	0.66
$WF_{666,6}$	0	−0.15	−0.29	0.32	0.21	0.38	−1.22	−0.3	0.66	0.77	0.6
$WF_{670,6}$	0	−0.16	−0.33	0.28	0.15	0.35	−1.2	−0.31	0.61	0.72	0.53
$WF_{675,6}$	0	−0.17	−0.36	0.24	0.1	0.32	−1.18	−0.33	0.55	0.67	0.45
$WF_{679,6}$	0	−0.19	−0.4	0.2	0.04	0.28	−1.15	−0.34	0.49	0.61	0.36
$WF_{683,6}$	0	−0.2	−0.44	0.15	−0.02	0.24	−1.11	−0.35	0.42	0.55	0.26
$WF_{687,6}$	0	−0.22	−0.48	0.11	−0.08	0.19	−1.05	−0.36	0.35	0.48	0.14
$WF_{692,6}$	0	−0.24	−0.52	0.06	−0.13	0.14	−0.99	−0.36	0.27	0.4	0.01
$WF_{696,6}$	0	−0.26	−0.56	0.02	−0.19	0.09	−0.92	−0.35	0.18	0.31	−0.16
$WF_{700,6}$	0	−0.28	−0.59	−0.04	−0.24	0.03	−0.84	−0.34	0.08	0.21	−0.35
$WF_{705,6}$	0	−0.3	−0.63	−0.09	−0.29	−0.02	−0.74	−0.32	−0.03	0.09	−0.6
$WF_{709,6}$	0	−0.33	−0.67	−0.15	−0.33	−0.1	−0.62	−0.3	−0.16	−0.06	−0.93
$WF_{713,6}$	0	−0.37	−0.72	−0.23	−0.39	−0.21	−0.49	−0.26	−0.34	−0.26	−1.4
$WF_{717,6}$	0	−0.41	−0.77	−0.34	−0.43	−0.34	−0.3	−0.21	−0.56	−0.55	−2.12
$WF_{722,6}$	22	−0.49	−0.82	−0.52	−0.5	−0.57	−0.03	−0.12	−0.93	−1.06	−3.18
$WF_{726,6}$	22	−0.57	−0.82	−0.74	−0.6	−0.88	0.4	0.06	−1.45	−1.72	−3.28
$WF_{730,6}$	22	−0.26	−0.46	−0.61	−0.59	−0.75	1.1	0.47	−1.39	−1.52	−2.11
$WF_{735,6}$	22	−0.01	0.05	−0.4	−0.24	−0.5	1.61	0.78	−0.9	−1.03	−1.26
$WF_{739,6}$	0	0.1	0.29	−0.28	0.03	−0.33	1.5	0.63	−0.57	−0.72	−0.73
$WF_{743,6}$	0	0.17	0.4	−0.2	0.14	−0.23	1.27	0.52	−0.36	−0.51	−0.36
$WF_{748,6}$	0	0.2	0.47	−0.16	0.2	−0.16	1.09	0.44	−0.22	−0.37	−0.09
$WF_{752,6}$	0	0.23	0.51	−0.12	0.24	−0.1	0.95	0.38	−0.13	−0.25	0.13

$WF_{756,6}$	0	0.25	0.53	−0.11	0.25	−0.07	0.84	0.34	−0.06	−0.17	0.32
$WF_{761,6}$	0	0.27	0.55	−0.09	0.27	−0.04	0.75	0.31	0	−0.1	0.48
$WF_{765,6}$	0	0.28	0.56	−0.07	0.28	0	0.68	0.27	0.04	−0.04	0.62
$WF_{769,6}$	0	0.29	0.57	−0.08	0.27	0	0.6	0.24	0.06	0	0.74
$WF_{774,6}$	0	0.29	0.58	−0.07	0.27	0.01	0.54	0.21	0.08	0.04	0.85
$WF_{778,6}$	0	0.3	0.59	−0.07	0.26	0.02	0.49	0.19	0.09	0.07	0.94
$WF_{782,6}$	0	0.29	0.59	−0.07	0.24	0	0.42	0.16	0.08	0.07	1.01
$WF_{787,6}$	0	0.29	0.59	−0.06	0.22	−0.02	0.37	0.14	0.06	0.07	1.08
$WF_{791,6}$	0	0.28	0.6	−0.05	0.18	−0.06	0.31	0.12	0.02	0.04	1.12
$WF_{795,6}$	0	0.27	0.59	−0.02	0.15	−0.11	0.26	0.09	−0.03	0	1.14
$WF_{800,6}$	0	0.25	0.6	0.04	0.09	−0.18	0.2	0.05	−0.11	−0.08	1.14
$WF_{804,6}$	0	0.23	0.61	0.15	0.03	−0.28	0.14	0.02	−0.21	−0.21	1.08
$WF_{808,6}$	0	0.22	0.61	0.36	−0.04	−0.36	0.11	−0.04	−0.33	−0.36	0.96
$WF_{813,6}$	0	0.22	0.64	0.61	−0.12	−0.46	0.15	−0.07	−0.49	−0.57	0.68
$WF_{817,6}$	0	0.24	0.66	0.81	−0.18	−0.5	0.33	−0.06	−0.61	−0.73	0.31
$WF_{821,6}$	0	0.31	0.69	0.89	−0.16	−0.43	0.73	0.01	−0.62	−0.74	0.03
$WF_{826,6}$	0	0.34	0.72	0.74	−0.11	−0.35	1.13	0.18	−0.55	−0.65	−0.09
$WF_{830,6}$	0	0.37	0.71	0.54	−0.04	−0.23	1.37	0.31	−0.44	−0.51	−0.1
$WF_{835,6}$	0	0.37	0.7	0.36	0.02	−0.15	1.47	0.4	−0.36	−0.39	−0.07
$WF_{839,6}$	0	0.37	0.69	0.23	0.06	−0.12	1.49	0.46	−0.31	−0.33	−0.03
$WF_{843,6}$	0	0.36	0.68	0.15	0.08	−0.09	1.49	0.48	−0.28	−0.28	−0.01
$WF_{848,6}$	0	0.35	0.67	0.1	0.1	−0.09	1.48	0.5	−0.27	−0.26	0
$WF_{852,6}$	0	0.35	0.67	0.08	0.11	−0.09	1.48	0.5	−0.26	−0.25	0.01
$WF_{857,6}$	0	0.34	0.66	0.06	0.11	−0.09	1.48	0.51	−0.26	−0.24	0.01
$WF_{861,6}$	0	0.33	0.66	0.06	0.11	−0.1	1.49	0.51	−0.26	−0.25	0.01
$WF_{865,6}$	0	0.33	0.66	0.06	0.11	−0.11	1.5	0.51	−0.27	−0.25	0.01
$WF_{870,6}$	0	0.32	0.66	0.06	0.11	−0.12	1.51	0.51	−0.27	−0.25	0
$WF_{874,6}$	0	0.32	0.66	0.06	0.11	−0.13	1.53	0.51	−0.28	−0.26	−0.01
$WF_{879,6}$	0	0.31	0.66	0.07	0.11	−0.13	1.55	0.52	−0.29	−0.27	−0.02
$WF_{883,6}$	0	0.31	0.66	0.08	0.11	−0.14	1.59	0.52	−0.3	−0.28	−0.04
$WF_{887,6}$	0	0.3	0.66	0.09	0.1	−0.15	1.63	0.52	−0.31	−0.29	−0.06
$WF_{892,6}$	0	0.3	0.67	0.11	0.1	−0.16	1.73	0.54	−0.33	−0.31	−0.1
$WF_{896,6}$	0	0.28	0.7	0.19	0.09	−0.18	2.02	0.57	−0.38	−0.37	−0.21
$WF_{404,7}$	0	0.58	0.08	0.84	0.8	1.15	−1.04	−1.1	0.62	−0.26	−0.16
$WF_{408,7}$	24	0.5	0.51	0.2	1.18	0.94	0.76	−1.22	0.44	−1.37	−2.93
$WF_{412,7}$	24	0.26	0.44	−0.26	0.82	−0.13	1.72	−1.21	−0.22	−2.04	−1.99
$WF_{416,7}$	24	0.18	0.39	−0.37	0.44	−0.53	1.82	−0.83	−0.63	−1.37	−1.54
$WF_{420,7}$	24	0.14	0.36	−0.43	0.25	−0.68	1.82	−0.34	−0.7	−1.09	−1.36
$WF_{424,7}$	24	0.1	0.34	−0.46	0.16	−0.75	1.8	−0.09	−0.71	−0.96	−1.27
$WF_{428,7}$	24	0.08	0.32	−0.48	0.11	−0.8	1.78	0.06	−0.71	−0.87	−1.2
$WF_{432,7}$	0	0.05	0.3	−0.49	0.09	−0.83	1.76	0.17	−0.7	−0.8	−1.14
$WF_{436,7}$	0	0.03	0.29	−0.51	0.1	−0.86	1.75	0.27	−0.67	−0.73	−1.09
$WF_{440,7}$	0	0.01	0.29	−0.51	0.13	−0.88	1.73	0.38	−0.63	−0.65	−1.03
$WF_{444,7}$	0	−0.01	0.28	−0.5	0.21	−0.89	1.71	0.51	−0.56	−0.54	−0.94

$WF_{449,7}$	0	−0.04	0.29	−0.48	0.36	−0.88	1.68	0.65	−0.44	−0.37	−0.82
$WF_{453,7}$	0	−0.07	0.31	−0.41	0.6	−0.79	1.63	0.78	−0.19	−0.06	−0.58
$WF_{457,7}$	0	−0.1	0.32	−0.22	0.87	−0.51	1.55	0.87	0.39	0.58	−0.06
$WF_{461,7}$	12	−0.09	0.26	0.16	0.99	−0.08	1.41	0.89	1.43	1.75	1.25
$WF_{465,7}$	12	−0.06	0.17	0.48	0.97	0.23	1.22	0.87	1.69	2.25	2.17
$WF_{469,7}$	12	−0.04	0.1	0.6	0.91	0.4	1	0.84	1.55	2.02	2
$WF_{473,7}$	22	−0.02	0.07	0.64	0.86	0.5	0.8	0.8	1.44	1.82	1.83
$WF_{477,7}$	22	−0.01	0.04	0.65	0.82	0.55	0.62	0.77	1.36	1.68	1.72
$WF_{481,7}$	22	0	0.03	0.65	0.78	0.58	0.49	0.74	1.3	1.59	1.64
$WF_{486,7}$	22	0	0.01	0.65	0.75	0.6	0.39	0.73	1.27	1.52	1.58
$WF_{490,7}$	22	0	0	0.64	0.72	0.61	0.33	0.72	1.24	1.47	1.53
$WF_{494,7}$	22	−0.01	−0.01	0.62	0.69	0.61	0.28	0.73	1.21	1.42	1.48
$WF_{498,7}$	22	−0.02	−0.03	0.6	0.65	0.61	0.25	0.77	1.19	1.38	1.43
$WF_{502,7}$	15	−0.03	−0.05	0.57	0.61	0.61	0.24	0.87	1.17	1.33	1.38
$WF_{506,7}$	15	−0.05	−0.1	0.52	0.54	0.59	0.27	1.1	1.14	1.26	1.3
$WF_{510,7}$	15	−0.11	−0.19	0.42	0.41	0.56	0.42	1.53	1.09	1.14	1.16
$WF_{515,7}$	0	−0.29	−0.54	0.05	−0.15	0.36	0.5	0.79	0.93	0.75	0.76
$WF_{519,7}$	22	−0.34	−0.47	−0.95	−1.24	−0.67	0.19	0.28	−0.82	−1.39	−1.69
$WF_{523,7}$	22	−0.14	−0.21	−0.85	−0.91	−0.64	0.12	0.08	−1.14	−1.59	−1.89
$WF_{527,7}$	22	−0.08	−0.14	−0.77	−0.8	−0.62	0.1	0	−1.14	−1.5	−1.71
$WF_{531,7}$	22	−0.05	−0.1	−0.73	−0.74	−0.61	0.09	−0.05	−1.13	−1.45	−1.62
$WF_{535,7}$	22	−0.04	−0.07	−0.71	−0.71	−0.61	0.09	−0.08	−1.13	−1.41	−1.57
$WF_{540,7}$	22	−0.02	−0.06	−0.69	−0.68	−0.6	0.1	−0.1	−1.12	−1.39	−1.54
$WF_{544,7}$	22	−0.01	−0.05	−0.68	−0.66	−0.6	0.1	−0.11	−1.12	−1.37	−1.51
$WF_{548,7}$	22	0	−0.04	−0.67	−0.65	−0.59	0.1	−0.12	−1.12	−1.36	−1.49
$WF_{552,7}$	22	0.01	−0.03	−0.67	−0.64	−0.59	0.09	−0.13	−1.13	−1.35	−1.48
$WF_{556,7}$	22	0.01	−0.03	−0.67	−0.63	−0.59	0.09	−0.14	−1.13	−1.34	−1.47
$WF_{560,7}$	22	0.02	−0.02	−0.68	−0.63	−0.59	0.07	−0.15	−1.14	−1.33	−1.47
$WF_{565,7}$	22	0.03	−0.02	−0.69	−0.63	−0.6	0.05	−0.17	−1.16	−1.33	−1.47
$WF_{569,7}$	22	0.03	−0.02	−0.71	−0.64	−0.62	0	−0.19	−1.19	−1.33	−1.47
$WF_{573,7}$	22	0.04	−0.03	−0.73	−0.67	−0.64	−0.08	−0.23	−1.22	−1.34	−1.48
$WF_{577,7}$	22	0.05	−0.04	−0.78	−0.71	−0.67	−0.21	−0.3	−1.27	−1.35	−1.49
$WF_{581,7}$	22	0.05	−0.05	−0.85	−0.78	−0.73	−0.49	−0.44	−1.35	−1.37	−1.51
$WF_{586,7}$	22	0.05	−0.09	−0.96	−0.92	−0.82	−1.04	−0.74	−1.45	−1.39	−1.53
$WF_{590,7}$	6	0.02	−0.15	−1.15	−1.17	−1	−1.73	−1.1	−1.6	−1.42	−1.55
$WF_{594,7}$	22	−0.04	−0.28	−1.4	−1.53	−1.37	−1.7	−0.75	−1.81	−1.43	−1.55
$WF_{598,7}$	22	−0.15	−0.36	−1.31	−1.31	−1.8	−1.49	−0.51	−2.08	−1.36	−1.46
$WF_{602,7}$	22	−0.17	−0.31	−0.74	−0.74	−0.95	−1.36	−0.39	−1.97	−0.88	−1.03
$WF_{607,7}$	0	−0.17	−0.26	−0.34	−0.42	−0.38	−1.3	−0.33	−1.02	−0.03	−0.13
$WF_{611,7}$	0	−0.16	−0.23	−0.11	−0.24	−0.11	−1.29	−0.29	−0.23	0.5	0.53
$WF_{615,7}$	0	−0.16	−0.21	0.05	−0.11	0.05	−1.3	−0.27	0.2	0.75	0.81
$WF_{619,7}$	24	−0.16	−0.2	0.15	−0.02	0.16	−1.31	−0.26	0.44	0.86	0.91
$WF_{624,7}$	24	−0.15	−0.2	0.23	0.07	0.24	−1.32	−0.25	0.58	0.9	0.92
$WF_{628,7}$	24	−0.14	−0.2	0.29	0.13	0.3	−1.31	−0.25	0.66	0.92	0.9

$WF_{632,7}$	24	−0.14	−0.2	0.33	0.18	0.35	−1.3	−0.25	0.7	0.91	0.86
$WF_{636,7}$	24	−0.13	−0.21	0.34	0.21	0.37	−1.28	−0.25	0.72	0.89	0.82
$WF_{641,7}$	0	−0.14	−0.23	0.35	0.22	0.38	−1.27	−0.26	0.71	0.87	0.77
$WF_{645,7}$	0	−0.14	−0.25	0.34	0.22	0.39	−1.25	−0.27	0.7	0.84	0.72
$WF_{649,7}$	0	−0.14	−0.27	0.33	0.21	0.38	−1.24	−0.28	0.68	0.81	0.67
$WF_{653,7}$	0	−0.15	−0.29	0.32	0.19	0.37	−1.22	−0.29	0.65	0.78	0.62
$WF_{658,7}$	0	−0.16	−0.31	0.29	0.16	0.35	−1.2	−0.3	0.62	0.75	0.56
$WF_{662,7}$	0	−0.16	−0.34	0.27	0.13	0.33	−1.18	−0.31	0.58	0.71	0.5
$WF_{666,7}$	0	−0.17	−0.36	0.24	0.09	0.31	−1.16	−0.32	0.54	0.67	0.44
$WF_{670,7}$	0	−0.19	−0.39	0.21	0.05	0.28	−1.13	−0.33	0.5	0.62	0.37
$WF_{675,7}$	0	−0.2	−0.42	0.18	0.01	0.26	−1.1	−0.33	0.45	0.58	0.3
$WF_{679,7}$	0	−0.21	−0.45	0.15	−0.03	0.23	−1.06	−0.34	0.4	0.53	0.22
$WF_{683,7}$	0	−0.22	−0.48	0.12	−0.07	0.19	−1.02	−0.34	0.34	0.47	0.12
$WF_{687,7}$	0	−0.24	−0.51	0.08	−0.11	0.16	−0.97	−0.33	0.28	0.41	0.02
$WF_{692,7}$	0	−0.25	−0.54	0.05	−0.15	0.12	−0.91	−0.33	0.22	0.35	−0.1
$WF_{696,7}$	0	−0.27	−0.56	0.01	−0.18	0.08	−0.85	−0.32	0.15	0.27	−0.24
$WF_{700,7}$	0	−0.29	−0.6	−0.03	−0.22	0.03	−0.78	−0.31	0.07	0.19	−0.41
$WF_{705,7}$	0	−0.3	−0.63	−0.08	−0.26	−0.02	−0.7	−0.29	−0.02	0.09	−0.62
$WF_{709,7}$	0	−0.33	−0.66	−0.14	−0.3	−0.08	−0.6	−0.27	−0.13	−0.03	−0.9
$WF_{713,7}$	0	−0.37	−0.71	−0.22	−0.34	−0.18	−0.48	−0.24	−0.27	−0.2	−1.31
$WF_{717,7}$	0	−0.41	−0.76	−0.35	−0.39	−0.31	−0.31	−0.19	−0.47	−0.46	−1.95
$WF_{722,7}$	24	−0.49	−0.82	−0.56	−0.45	−0.53	−0.06	−0.11	−0.8	−0.9	−2.96
$WF_{726,7}$	22	−0.56	−0.85	−0.82	−0.55	−0.84	0.35	0.04	−1.31	−1.54	−3.16
$WF_{730,7}$	22	−0.28	−0.5	−0.69	−0.59	−0.76	1.03	0.41	−1.32	−1.43	−2.02
$WF_{735,7}$	22	−0.01	0.01	−0.46	−0.26	−0.5	1.53	0.71	−0.87	−0.98	−1.2
$WF_{739,7}$	0	0.1	0.25	−0.33	−0.01	−0.35	1.45	0.58	−0.57	−0.7	−0.71
$WF_{743,7}$	0	0.15	0.37	−0.25	0.1	−0.26	1.26	0.49	−0.4	−0.53	−0.39
$WF_{748,7}$	0	0.19	0.44	−0.2	0.16	−0.19	1.1	0.42	−0.27	−0.4	−0.15
$WF_{752,7}$	0	0.22	0.48	−0.16	0.2	−0.14	0.98	0.38	−0.19	−0.31	0.04
$WF_{756,7}$	0	0.23	0.51	−0.14	0.22	−0.11	0.88	0.35	−0.13	−0.24	0.2
$WF_{761,7}$	0	0.25	0.53	−0.12	0.23	−0.08	0.8	0.32	−0.08	−0.17	0.34
$WF_{765,7}$	0	0.26	0.54	−0.1	0.24	−0.06	0.73	0.29	−0.04	−0.12	0.46
$WF_{769,7}$	0	0.27	0.55	−0.09	0.24	−0.05	0.67	0.27	−0.01	−0.09	0.56
$WF_{774,7}$	0	0.27	0.56	−0.08	0.24	−0.04	0.61	0.24	0.01	−0.05	0.66
$WF_{778,7}$	0	0.28	0.57	−0.07	0.24	−0.03	0.57	0.22	0.02	−0.03	0.74
$WF_{782,7}$	0	0.28	0.58	−0.06	0.23	−0.04	0.52	0.2	0.02	−0.02	0.81
$WF_{787,7}$	0	0.28	0.58	−0.05	0.21	−0.05	0.47	0.18	0.01	−0.01	0.87
$WF_{791,7}$	0	0.28	0.59	−0.02	0.19	−0.06	0.44	0.16	0	−0.02	0.91
$WF_{795,7}$	0	0.28	0.6	0	0.17	−0.09	0.41	0.14	−0.03	−0.04	0.92
$WF_{800,7}$	0	0.28	0.6	0.05	0.14	−0.12	0.39	0.12	−0.07	−0.09	0.91
$WF_{804,7}$	0	0.28	0.61	0.1	0.11	−0.15	0.4	0.11	−0.12	−0.13	0.85
$WF_{808,7}$	0	0.29	0.63	0.17	0.08	−0.18	0.45	0.11	−0.18	−0.2	0.74
$WF_{813,7}$	0	0.29	0.64	0.23	0.04	−0.21	0.55	0.14	−0.24	−0.27	0.57
$WF_{817,7}$	0	0.3	0.66	0.28	0.03	−0.22	0.72	0.19	−0.29	−0.32	0.39

$WF_{821,7}$	0	0.32	0.67	0.29	0.02	−0.21	0.93	0.25	−0.32	−0.35	0.23
$WF_{826,7}$	0	0.33	0.67	0.27	0.03	−0.19	1.12	0.32	−0.33	−0.35	0.12
$WF_{830,7}$	0	0.34	0.68	0.24	0.04	−0.17	1.27	0.38	−0.32	−0.34	0.05
$WF_{835,7}$	0	0.34	0.67	0.2	0.06	−0.14	1.37	0.42	−0.31	−0.32	0.02
$WF_{839,7}$	0	0.35	0.67	0.16	0.08	−0.13	1.43	0.46	−0.3	−0.3	0.01
$WF_{843,7}$	0	0.34	0.67	0.13	0.09	−0.12	1.46	0.48	−0.29	−0.28	0
$WF_{848,7}$	0	0.34	0.67	0.11	0.09	−0.11	1.48	0.49	−0.28	−0.27	0
$WF_{852,7}$	0	0.34	0.66	0.09	0.1	−0.11	1.5	0.5	−0.28	−0.27	0
$WF_{857,7}$	0	0.33	0.66	0.08	0.1	−0.11	1.51	0.5	−0.28	−0.26	0
$WF_{861,7}$	0	0.33	0.66	0.08	0.11	−0.11	1.52	0.51	−0.28	−0.26	−0.01
$WF_{865,7}$	0	0.33	0.66	0.07	0.11	−0.12	1.53	0.51	−0.28	−0.26	−0.01
$WF_{870,7}$	0	0.32	0.66	0.07	0.11	−0.12	1.54	0.51	−0.28	−0.26	−0.02
$WF_{874,7}$	0	0.32	0.66	0.07	0.11	−0.12	1.56	0.52	−0.29	−0.27	−0.02
$WF_{879,7}$	0	0.32	0.66	0.08	0.11	−0.13	1.58	0.52	−0.29	−0.27	−0.03
$WF_{883,7}$	0	0.31	0.67	0.09	0.11	−0.13	1.62	0.53	−0.3	−0.28	−0.05
$WF_{887,7}$	0	0.31	0.67	0.1	0.11	−0.13	1.68	0.54	−0.31	−0.29	−0.07
$WF_{892,7}$	0	0.31	0.69	0.13	0.1	−0.14	1.8	0.56	−0.32	−0.31	−0.11
$WF_{896,7}$	0	0.3	0.73	0.22	0.1	−0.14	2.17	0.62	−0.36	−0.36	−0.23
$WF_{404,8}$	0	0.42	−0.01	0.79	0.81	1.11	−1.11	−1.13	0.61	−0.28	−0.15
$WF_{408,8}$	24	0.42	0.38	0.36	1.14	0.98	0.31	−1.22	0.51	−1.03	−2.11
$WF_{412,8}$	24	0.24	0.41	−0.18	1.07	0.16	1.53	−1.27	0.15	−2.16	−2.38
$WF_{416,8}$	24	0.17	0.38	−0.33	0.7	−0.39	1.74	−1.15	−0.38	−1.62	−1.72
$WF_{420,8}$	24	0.13	0.36	−0.39	0.48	−0.6	1.78	−0.77	−0.57	−1.22	−1.46
$WF_{424,8}$	24	0.1	0.35	−0.42	0.38	−0.69	1.78	−0.37	−0.6	−1.01	−1.31
$WF_{428,8}$	24	0.08	0.34	−0.44	0.33	−0.74	1.78	−0.07	−0.6	−0.87	−1.22
$WF_{432,8}$	0	0.06	0.33	−0.45	0.32	−0.78	1.77	0.15	−0.57	−0.76	−1.14
$WF_{436,8}$	0	0.05	0.33	−0.45	0.35	−0.8	1.75	0.33	−0.53	−0.66	−1.06
$WF_{440,8}$	0	0.03	0.34	−0.44	0.42	−0.8	1.74	0.49	−0.45	−0.53	−0.97
$WF_{444,8}$	0	0.02	0.35	−0.41	0.54	−0.77	1.71	0.63	−0.33	−0.37	−0.86
$WF_{449,8}$	0	0	0.37	−0.36	0.69	−0.7	1.68	0.74	−0.12	−0.13	−0.69
$WF_{453,8}$	0	−0.02	0.38	−0.26	0.86	−0.53	1.62	0.82	0.25	0.27	−0.41
$WF_{457,8}$	0	−0.03	0.37	−0.06	0.96	−0.26	1.55	0.86	0.87	0.93	0.15
$WF_{461,8}$	12	−0.04	0.3	0.21	0.98	0.01	1.44	0.87	1.47	1.74	1.2
$WF_{465,8}$	12	−0.04	0.21	0.44	0.95	0.22	1.3	0.86	1.61	2.09	1.94
$WF_{469,8}$	12	−0.03	0.14	0.55	0.9	0.35	1.15	0.85	1.54	2	1.96
$WF_{473,8}$	12	−0.03	0.09	0.59	0.85	0.44	0.99	0.83	1.46	1.86	1.84
$WF_{477,8}$	12	−0.02	0.06	0.61	0.82	0.49	0.85	0.83	1.39	1.74	1.74
$WF_{481,8}$	15	−0.02	0.03	0.62	0.78	0.53	0.73	0.83	1.34	1.65	1.66
$WF_{486,8}$	15	−0.02	0.01	0.61	0.75	0.55	0.64	0.84	1.3	1.58	1.6
$WF_{490,8}$	15	−0.02	0	0.6	0.72	0.57	0.57	0.88	1.28	1.52	1.55
$WF_{494,8}$	15	−0.03	−0.02	0.59	0.69	0.58	0.54	0.95	1.25	1.47	1.5
$WF_{498,8}$	15	−0.04	−0.05	0.57	0.66	0.58	0.54	1.08	1.23	1.42	1.44
$WF_{502,8}$	15	−0.06	−0.09	0.53	0.61	0.58	0.62	1.32	1.22	1.36	1.38
$WF_{506,8}$	12	−0.09	−0.15	0.45	0.53	0.57	0.9	1.56	1.19	1.28	1.27

$WF_{510,8}$	12	−0.19	−0.35	0.24	0.28	0.5	1.55	1.11	1.13	1.07	1.04
$WF_{515,8}$	0	−0.44	−0.66	−0.57	−1.04	−0.54	0.62	0.55	0.32	−0.05	0.02
$WF_{519,8}$	22	−0.17	−0.29	−0.87	−0.89	−0.62	0.31	0.27	−0.97	−1.41	−1.81
$WF_{523,8}$	22	−0.09	−0.17	−0.8	−0.8	−0.62	0.2	0.13	−1.1	−1.46	−1.74
$WF_{527,8}$	22	−0.06	−0.12	−0.76	−0.75	−0.61	0.15	0.04	−1.12	−1.44	−1.65
$WF_{531,8}$	22	−0.04	−0.1	−0.74	−0.72	−0.61	0.12	−0.01	−1.13	−1.42	−1.6
$WF_{535,8}$	22	−0.03	−0.08	−0.72	−0.7	−0.61	0.11	−0.05	−1.13	−1.41	−1.57
$WF_{540,8}$	22	−0.02	−0.07	−0.71	−0.69	−0.6	0.1	−0.07	−1.14	−1.39	−1.55
$WF_{544,8}$	22	−0.01	−0.06	−0.7	−0.68	−0.6	0.09	−0.09	−1.14	−1.38	−1.53
$WF_{548,8}$	22	0	−0.05	−0.7	−0.67	−0.6	0.08	−0.11	−1.14	−1.37	−1.52
$WF_{552,8}$	22	0	−0.04	−0.7	−0.66	−0.61	0.07	−0.12	−1.15	−1.36	−1.51
$WF_{556,8}$	22	0.01	−0.04	−0.7	−0.66	−0.61	0.05	−0.14	−1.16	−1.36	−1.5
$WF_{560,8}$	22	0.01	−0.04	−0.71	−0.67	−0.62	0.03	−0.16	−1.17	−1.36	−1.5
$WF_{565,8}$	22	0.02	−0.04	−0.72	−0.67	−0.63	−0.01	−0.17	−1.19	−1.36	−1.49
$WF_{569,8}$	22	0.02	−0.04	−0.73	−0.69	−0.64	−0.06	−0.2	−1.21	−1.36	−1.5
$WF_{573,8}$	22	0.02	−0.04	−0.76	−0.71	−0.66	−0.13	−0.24	−1.24	−1.36	−1.5
$WF_{577,8}$	22	0.02	−0.05	−0.8	−0.75	−0.69	−0.26	−0.29	−1.28	−1.37	−1.51
$WF_{581,8}$	22	0.02	−0.07	−0.85	−0.81	−0.73	−0.48	−0.39	−1.33	−1.39	−1.52
$WF_{586,8}$	22	0.01	−0.1	−0.93	−0.91	−0.8	−0.89	−0.56	−1.41	−1.41	−1.55
$WF_{590,8}$	6	−0.01	−0.15	−1.07	−1.09	−0.93	−1.73	−0.95	−1.53	−1.45	−1.59
$WF_{594,8}$	6	−0.07	−0.26	−1.32	−1.42	−1.18	−2.62	−1.27	−1.72	−1.51	−1.65
$WF_{598,8}$	6	−0.22	−0.46	−1.63	−1.74	−1.78	−2.29	−0.82	−2.08	−1.6	−1.77
$WF_{602,8}$	22	−0.23	−0.46	−1.01	−1.05	−1.14	−1.85	−0.55	−2.25	−1.27	−1.6
$WF_{607,8}$	0	−0.19	−0.35	−0.34	−0.47	−0.27	−1.6	−0.42	−0.75	0.02	−0.21
$WF_{611,8}$	0	−0.17	−0.29	−0.04	−0.19	0.02	−1.46	−0.35	0.04	0.54	0.43
$WF_{615,8}$	0	−0.16	−0.26	0.11	−0.04	0.16	−1.38	−0.31	0.35	0.71	0.63
$WF_{619,8}$	0	−0.15	−0.25	0.19	0.04	0.23	−1.33	−0.29	0.49	0.78	0.7
$WF_{624,8}$	0	−0.15	−0.25	0.24	0.1	0.28	−1.3	−0.28	0.57	0.81	0.72
$WF_{628,8}$	0	−0.15	−0.26	0.27	0.13	0.31	−1.27	−0.28	0.61	0.81	0.7
$WF_{632,8}$	0	−0.15	−0.27	0.28	0.14	0.33	−1.25	−0.28	0.62	0.8	0.68
$WF_{636,8}$	0	−0.15	−0.28	0.29	0.15	0.33	−1.24	−0.28	0.62	0.79	0.65
$WF_{641,8}$	0	−0.16	−0.29	0.29	0.14	0.34	−1.22	−0.29	0.61	0.77	0.61
$WF_{645,8}$	0	−0.16	−0.31	0.28	0.13	0.33	−1.2	−0.29	0.6	0.74	0.57
$WF_{649,8}$	0	−0.17	−0.33	0.27	0.12	0.32	−1.18	−0.3	0.58	0.72	0.52
$WF_{653,8}$	0	−0.17	−0.35	0.25	0.1	0.31	−1.16	−0.31	0.55	0.69	0.47
$WF_{658,8}$	0	−0.18	−0.37	0.23	0.07	0.3	−1.14	−0.31	0.52	0.66	0.42
$WF_{662,8}$	0	−0.19	−0.39	0.21	0.05	0.28	−1.11	−0.32	0.49	0.62	0.37
$WF_{666,8}$	0	−0.2	−0.41	0.19	0.02	0.26	−1.09	−0.32	0.46	0.59	0.31
$WF_{670,8}$	0	−0.21	−0.43	0.17	−0.01	0.24	−1.06	−0.32	0.42	0.55	0.25
$WF_{675,8}$	0	−0.21	−0.46	0.15	−0.04	0.21	−1.03	−0.32	0.38	0.51	0.18
$WF_{679,8}$	0	−0.22	−0.48	0.12	−0.06	0.19	−0.99	−0.32	0.34	0.47	0.11
$WF_{683,8}$	0	−0.24	−0.5	0.09	−0.09	0.16	−0.95	−0.32	0.29	0.42	0.02
$WF_{687,8}$	0	−0.25	−0.52	0.07	−0.12	0.14	−0.91	−0.31	0.25	0.37	−0.07
$WF_{692,8}$	0	−0.26	−0.55	0.04	−0.15	0.11	−0.86	−0.31	0.19	0.32	−0.17

$WF_{696,8}$	0	−0.27	−0.57	0	−0.18	0.07	−0.81	−0.3	0.14	0.26	−0.29
$WF_{700,8}$	0	−0.29	−0.6	−0.03	−0.21	0.03	−0.74	−0.29	0.07	0.19	−0.44
$WF_{705,8}$	0	−0.31	−0.63	−0.08	−0.24	−0.01	−0.67	−0.27	0	0.11	−0.62
$WF_{709,8}$	0	−0.33	−0.66	−0.14	−0.27	−0.07	−0.59	−0.25	−0.09	0.01	−0.86
$WF_{713,8}$	0	−0.36	−0.7	−0.22	−0.3	−0.15	−0.48	−0.22	−0.21	−0.14	−1.21
$WF_{717,8}$	0	−0.41	−0.75	−0.35	−0.35	−0.27	−0.33	−0.18	−0.38	−0.35	−1.77
$WF_{722,8}$	0	−0.49	−0.82	−0.59	−0.4	−0.48	−0.09	−0.11	−0.68	−0.74	−2.7
$WF_{726,8}$	22	−0.57	−0.87	−0.9	−0.49	−0.81	0.3	0.03	−1.17	−1.35	−3.03
$WF_{730,8}$	22	−0.29	−0.54	−0.75	−0.55	−0.76	0.96	0.37	−1.25	−1.32	−1.94
$WF_{735,8}$	22	−0.02	−0.02	−0.51	−0.27	−0.51	1.45	0.66	−0.84	−0.93	−1.14
$WF_{739,8}$	0	0.09	0.23	−0.37	−0.03	−0.37	1.4	0.55	−0.57	−0.68	−0.69
$WF_{743,8}$	0	0.15	0.35	−0.29	0.08	−0.28	1.23	0.46	−0.41	−0.53	−0.39
$WF_{748,8}$	0	0.18	0.41	−0.23	0.13	−0.22	1.09	0.41	−0.31	−0.42	−0.18
$WF_{752,8}$	0	0.2	0.45	−0.19	0.17	−0.17	0.99	0.37	−0.23	−0.34	−0.01
$WF_{756,8}$	0	0.22	0.48	−0.17	0.19	−0.14	0.9	0.34	−0.18	−0.28	0.12
$WF_{761,8}$	0	0.23	0.51	−0.14	0.2	−0.12	0.83	0.32	−0.13	−0.23	0.24
$WF_{765,8}$	0	0.24	0.52	−0.12	0.21	−0.1	0.77	0.3	−0.1	−0.19	0.34
$WF_{769,8}$	0	0.25	0.54	−0.11	0.22	−0.09	0.72	0.28	−0.07	−0.15	0.43
$WF_{774,8}$	0	0.26	0.55	−0.09	0.22	−0.08	0.68	0.26	−0.06	−0.13	0.51
$WF_{778,8}$	0	0.26	0.56	−0.08	0.21	−0.07	0.64	0.24	−0.04	−0.11	0.58
$WF_{782,8}$	0	0.27	0.57	−0.06	0.21	−0.07	0.6	0.23	−0.04	−0.09	0.63
$WF_{787,8}$	0	0.27	0.57	−0.04	0.2	−0.07	0.57	0.21	−0.04	−0.09	0.68
$WF_{791,8}$	0	0.28	0.58	−0.02	0.19	−0.08	0.55	0.2	−0.05	−0.09	0.7
$WF_{795,8}$	0	0.28	0.59	0	0.17	−0.09	0.55	0.19	−0.06	−0.1	0.7
$WF_{800,8}$	0	0.29	0.6	0.03	0.16	−0.1	0.56	0.19	−0.09	−0.12	0.68
$WF_{804,8}$	0	0.29	0.61	0.06	0.14	−0.12	0.6	0.2	−0.12	−0.15	0.63
$WF_{808,8}$	0	0.3	0.62	0.1	0.12	−0.13	0.66	0.21	−0.15	−0.18	0.55
$WF_{813,8}$	0	0.3	0.63	0.13	0.1	−0.14	0.75	0.24	−0.19	−0.21	0.45
$WF_{817,8}$	0	0.31	0.65	0.15	0.09	−0.15	0.87	0.27	−0.22	−0.24	0.34
$WF_{821,8}$	0	0.32	0.65	0.16	0.08	−0.15	1	0.31	−0.25	−0.26	0.25
$WF_{826,8}$	0	0.33	0.66	0.16	0.08	−0.15	1.12	0.35	−0.27	−0.28	0.17
$WF_{830,8}$	0	0.33	0.66	0.15	0.08	−0.14	1.23	0.39	−0.28	−0.28	0.11
$WF_{835,8}$	0	0.33	0.67	0.14	0.08	−0.14	1.32	0.42	−0.28	−0.28	0.07
$WF_{839,8}$	0	0.33	0.67	0.13	0.08	−0.13	1.38	0.45	−0.29	−0.28	0.04
$WF_{843,8}$	0	0.33	0.67	0.12	0.09	−0.13	1.43	0.47	−0.29	−0.28	0.02
$WF_{848,8}$	0	0.33	0.67	0.11	0.09	−0.12	1.46	0.48	−0.29	−0.28	0.01
$WF_{852,8}$	0	0.33	0.67	0.1	0.1	−0.12	1.49	0.49	−0.29	−0.27	0
$WF_{857,8}$	0	0.33	0.66	0.1	0.1	−0.12	1.51	0.5	−0.28	−0.27	−0.01
$WF_{861,8}$	0	0.33	0.67	0.09	0.1	−0.12	1.53	0.5	−0.29	−0.27	−0.01
$WF_{865,8}$	0	0.33	0.67	0.09	0.1	−0.12	1.54	0.51	−0.29	−0.27	−0.02
$WF_{870,8}$	0	0.32	0.67	0.09	0.1	−0.12	1.56	0.51	−0.29	−0.27	−0.03
$WF_{874,8}$	0	0.32	0.67	0.09	0.1	−0.12	1.59	0.52	−0.29	−0.27	−0.03
$WF_{879,8}$	0	0.32	0.67	0.1	0.11	−0.12	1.62	0.53	−0.29	−0.28	−0.04
$WF_{883,8}$	0	0.32	0.68	0.1	0.11	−0.12	1.66	0.54	−0.3	−0.28	−0.06

$WF_{887,8}$	0	0.32	0.68	0.12	0.11	−0.12	1.73	0.55	−0.31	−0.29	−0.08
$WF_{892,8}$	0	0.32	0.7	0.15	0.11	−0.12	1.87	0.58	−0.32	−0.31	−0.13
$WF_{896,8}$	0	0.33	0.75	0.26	0.11	−0.1	2.3	0.66	−0.35	−0.35	−0.25

Table S3.6 Confusion matrix by GBDT classification in 2022

Date	Used features	Estimated	Measured		Precision	Recall	OA	Kappa
			Susceptible	Resistant				
DAI 12	BSF	Susceptible	55	17	76.39%	56.70%	70.94%	0.55
		Resistant	42	89				
	SF	Susceptible	51	20	71.83%	52.58%	67.49%	0.51
		Resistant	46	86				
	VI	Susceptible	47	26	64.38%	48.45%	62.56%	0.45
		Resistant	50	80				
DAI 15	BSF	Susceptible	69	19	78.41%	71.13%	76.85%	0.62
		Resistant	28	87				
	SF	Susceptible	68	19	78.16%	70.10%	76.35%	0.62
		Resistant	29	87				
	VI	Susceptible	65	27	70.65%	67.01%	70.94%	0.55
		Resistant	32	79				
DAI 22	BSF	Susceptible	79	20	79.80%	81.44%	81.28%	0.68
		Resistant	18	86				
	SF	Susceptible	84	20	80.77%	86.60%	83.74%	0.72
		Resistant	13	86				
	VI	Susceptible	82	21	79.61%	84.54%	82.27%	0.70
		Resistant	15	85				
DAI 30	BSF	Susceptible	82	16	83.67%	84.54%	84.73%	0.73
		Resistant	15	90				
	SF	Susceptible	87	18	82.86%	89.69%	86.21%	0.76
		Resistant	10	88				
	VI	Susceptible	81	20	80.20%	83.51%	82.27%	0.70
		Resistant	16	86				
DAI 37	BSF	Susceptible	86	39	68.80%	88.66%	75.37%	0.61
		Resistant	11	67				
	SF	Susceptible	86	45	65.65%	88.66%	72.41%	0.57
		Resistant	11	61				
	VI	Susceptible	81	51	61.36%	83.51%	67.00%	0.51
		Resistant	16	55				

Dark gray and light gray represent the maximum value and the second maximum value respectively.

Table S3.7 Confusion matrix by RF classification in 2022

Date	Used features	Estimated	Measured		Precision	Recall	OA	Kappa
			Susceptible	Resistant				
DAI 12	BSF	Susceptible	50	23	68.49%	51.55%	65.52%	0.48
		Resistant	47	83				
	SF	Susceptible	47	25	65.28%	48.45%	63.05%	0.46
		Resistant	50	81				
	VI	Susceptible	40	32	55.56%	41.24%	56.16%	0.39
		Resistant	57	74				
DAI 15	BSF	Susceptible	70	32	68.63%	72.16%	70.94%	0.55
		Resistant	27	74				
	SF	Susceptible	68	31	68.69%	70.10%	70.44%	0.54
		Resistant	29	75				
	VI	Susceptible	66	39	62.86%	68.04%	65.52%	0.49
		Resistant	31	67				
DAI 22	BSF	Susceptible	72	26	73.47%	74.23%	74.88%	0.60
		Resistant	25	80				
	SF	Susceptible	80	27	74.77%	82.47%	78.33%	0.64
		Resistant	17	79				
	VI	Susceptible	77	27	74.04%	79.38%	76.85%	0.62
		Resistant	20	79				
DAI 30	BSF	Susceptible	75	20	78.95%	77.32%	79.31%	0.66
		Resistant	22	86				
	SF	Susceptible	79	22	78.22%	81.44%	80.30%	0.67
		Resistant	18	84				
	VI	Susceptible	76	25	75.25%	78.35%	77.34%	0.63
		Resistant	21	81				
DAI 37	BSF	Susceptible	78	46	62.90%	80.41%	67.98%	0.52
		Resistant	19	60				
	SF	Susceptible	76	47	61.79%	78.35%	66.50%	0.50
		Resistant	21	59				
	VI	Susceptible	74	60	55.22%	76.29%	59.11%	0.42
		Resistant	23	46				

Dark gray and light gray represent the maximum value and the second maximum value respectively.

Table S3.8 Confusion matrix by GBDT classification in 2021

Date	Used features	Estimated	Measured		Precision	Recall	OA	Kappa
			Susceptible	Resistant				
DAI 18	BSF	Susceptible	40	6	86.96%	64.52%	71.43%	0.55
		Resistant	22	30				
	SF	Susceptible	38	4	90.48%	61.29%	71.43%	0.55
		Resistant	24	32				
	VI	Susceptible	35	3	92.11%	56.45%	69.39%	0.53
		Resistant	27	33				
DAI 25	BSF	Susceptible	48	7	87.27%	77.42%	78.57%	0.63
		Resistant	14	29				
	SF	Susceptible	48	5	90.57%	77.42%	80.61%	0.66
		Resistant	14	31				
	VI	Susceptible	47	6	88.68%	75.81%	78.57%	0.63
		Resistant	15	30				
DAI 31	BSF	Susceptible	53	5	91.38%	85.48%	85.71%	0.74
		Resistant	9	31				
	SF	Susceptible	52	4	92.86%	83.87%	85.71%	0.74
		Resistant	10	32				
	VI	Susceptible	50	8	86.21%	80.65%	79.59%	0.64
		Resistant	12	28				
DAI 37	BSF	Susceptible	60	21	74.07%	96.77%	76.53%	0.58
		Resistant	2	15				
	SF	Susceptible	60	23	72.29%	96.77%	74.49%	0.55
		Resistant	2	13				
	VI	Susceptible	60	27	68.97%	96.77%	70.41%	0.49
		Resistant	2	9				

Dark gray and light gray represent the maximum value and the second maximum value respectively.

Table S3.9 Confusion matrix by RF classification in 2021

Date	Used features	Estimated	Measured		Precision	Recall	OA	Kappa
			Susceptible	Resistant				
DAI 18	BSF	Susceptible	36	4	90.00%	58.06%	69.39%	0.53
		Resistant	26	32				
	SF	Susceptible	36	5	87.80%	58.06%	68.37%	0.51
		Resistant	26	31				
	VI	Susceptible	33	4	89.19%	53.23%	66.33%	0.50
		Resistant	29	32				
DAI 25	BSF	Susceptible	46	7	86.79%	74.19%	76.53%	0.61
		Resistant	16	29				
	SF	Susceptible	46	8	85.19%	74.19%	75.51%	0.59
		Resistant	16	28				
	VI	Susceptible	45	29	60.81%	72.58%	73.47%	0.56
		Resistant	17	27				
DAI 31	BSF	Susceptible	48	7	87.27%	77.42%	78.57%	0.63
		Resistant	14	29				
	SF	Susceptible	50	6	89.29%	80.65%	81.63%	0.67
		Resistant	12	30				
	VI	Susceptible	45	6	88.24%	72.58%	76.53%	0.61
		Resistant	17	30				
DAI 37	BSF	Susceptible	60	20	75.00%	96.77%	72.45%	0.52
		Resistant	2	11				
	SF	Susceptible	58	23	71.60%	93.55%	67.35%	0.45
		Resistant	4	8				
	VI	Susceptible	58	25	69.88%	93.55%	65.31%	0.42
		Resistant	4	6				

Dark gray and light gray represent the maximum value and the second maximum value respectively.

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