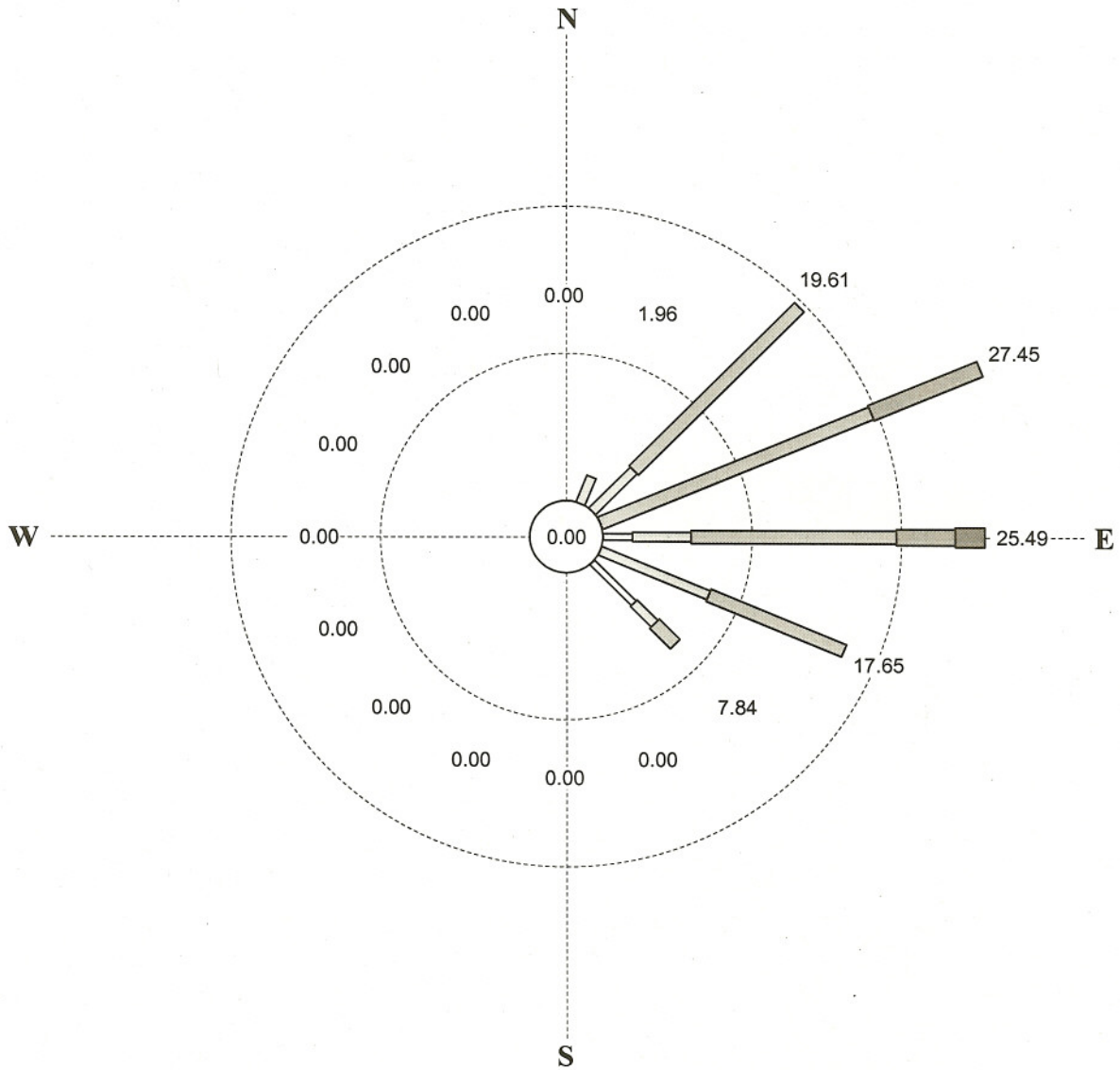


# APPENDIX D

## Wind Rose & Data by Sampling Period

**Acrolein Application In Kern County**  
**Background, AutoMet1, on 7/24/07 from 1120 through 1530**



Wind Speed ( Miles Per Hour)

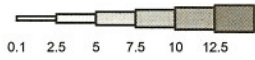
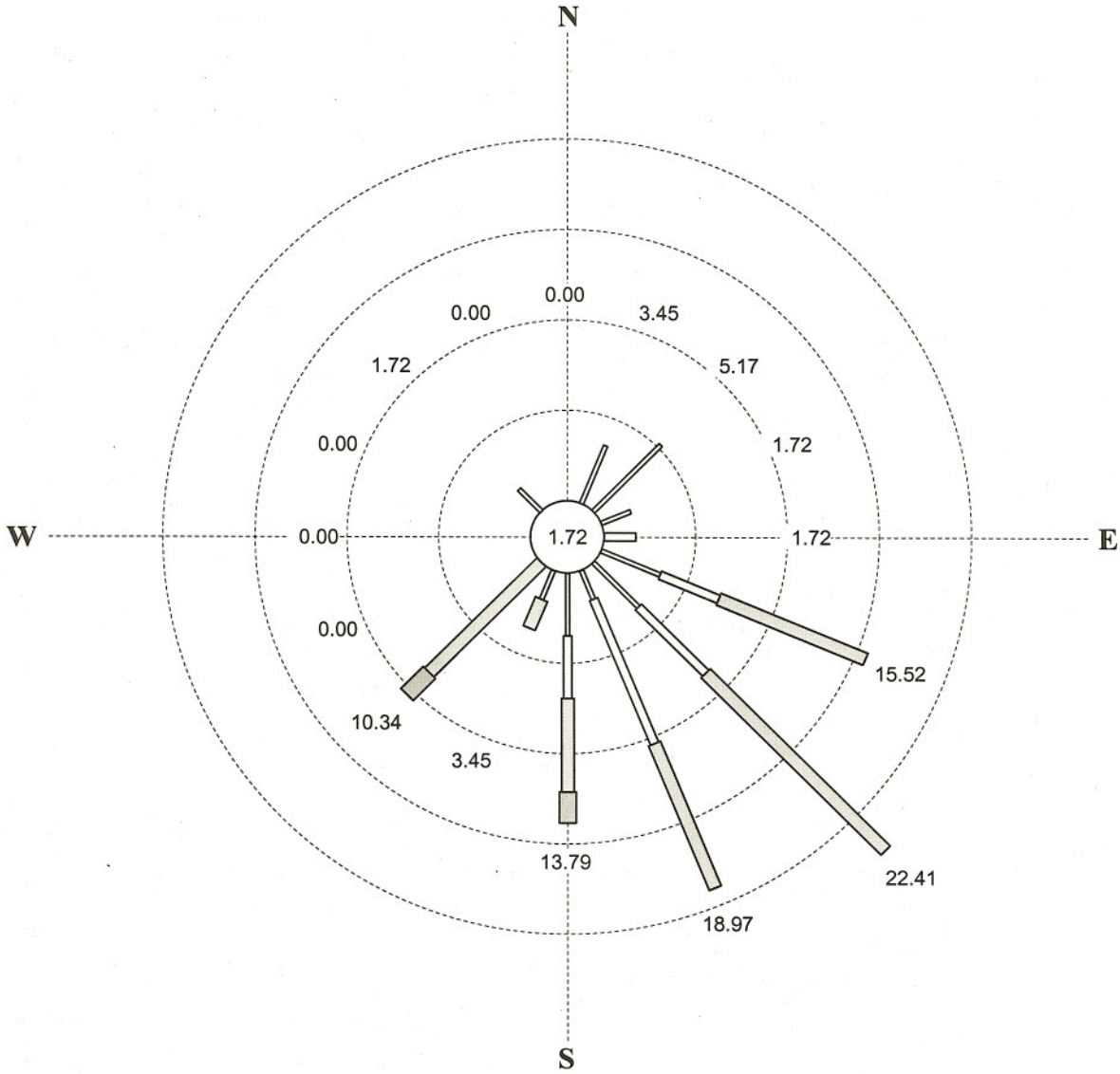
Calms included at center.  
Rings drawn at 10% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.

### Acrolein 0-1 Section Meteorological Data for July 24, 2007 Background

Date	Time	WS	WD	AT	RH	Sigma	Sampling Periods	
		(MPH)	(Deg)	(°C)	(%)	(Deg)	Start	Stop
7/24/2007	11:20	3.3	146	31.6	33	47	B ▼	
7/24/2007	11:25	5.9	132	31.6	35	41		
7/24/2007	11:30	3.4	124	31.6	34	13		
7/24/2007	11:35	6.8	94	31.9	35	29		
7/24/2007	11:40	7.8	68	32.4	34	15		
7/24/2007	11:45	9.0	106	32.2	35	19		
7/24/2007	11:50	6.9	120	31.8	35	18		
7/24/2007	11:55	8.4	84	32.3	35	20		
7/24/2007	12:00	7.8	53	33.2	32	22		
7/24/2007	12:05	9.8	90	32.9	33	25		
7/24/2007	12:10	7.0	118	32.3	35	22		
7/24/2007	12:15	8.7	76	32.8	33	27		
7/24/2007	12:20	5.9	123	33.1	32	47		
7/24/2007	12:25	6.7	89	32.9	32	19		
7/24/2007	12:30	10.0	50	33.6	31	16		
7/24/2007	12:35	10.3	69	33.7	31	25		
7/24/2007	12:40	9.0	52	33.9	31	27		
7/24/2007	12:45	8.0	87	33.5	32	27		
7/24/2007	12:50	6.2	26	33.9	30	26		
7/24/2007	12:55	7.0	56	34.1	30	21		
7/24/2007	13:00	8.8	101	33.5	31	13		
7/24/2007	13:05	8.8	34	34.2	30	18		
7/24/2007	13:10	8.6	79	34.3	31	34		
7/24/2007	13:15	12.3	77	34.1	30	13		
7/24/2007	13:20	8.4	53	34.2	30	19		
7/24/2007	13:25	7.3	54	34.6	29	18		
7/24/2007	13:30	8.2	53	34.6	29	19		
7/24/2007	13:35	9.9	71	34.6	29	15		
7/24/2007	13:40	9.1	66	34.7	29	21		
7/24/2007	13:45	9.2	45	35.1	28	27		
7/24/2007	13:50	8.9	65	35.0	28	37		
7/24/2007	13:55	8.4	71	35.1	29	20		
7/24/2007	14:00	10.2	66	35.2	28	25		
7/24/2007	14:05	9.1	64	35.2	28	25		
7/24/2007	14:10	8.0	37	35.7	27	32		
7/24/2007	14:15	9.7	79	34.8	29	25		
7/24/2007	14:20	10.4	66	35.3	28	24		
7/24/2007	14:25	10.5	100	35.0	28	13		
7/24/2007	14:30	9.0	74	34.7	29	19		
7/24/2007	14:35	9.9	58	35.2	27	19		
7/24/2007	14:40	11.7	82	35.4	28	12		
7/24/2007	14:45	13.1	90	35.5	27	12		
7/24/2007	14:50	9.6	107	34.9	28	18		

7/24/2007	14:55	9.1	114	34.5	30	9		
7/24/2007	15:00	9.8	96	34.7	29	20		
7/24/2007	15:05	4.4	81	35.0	27	29		
7/24/2007	15:10	7.4	102	35.2	27	30		
7/24/2007	15:15	8.0	137	35.1	28	38		
7/24/2007	15:20	8.5	120	34.8	28	9		
7/24/2007	15:25	9.2	94	35.2	28	11		
7/24/2007	15:30	8.0	86	35.3	27	30		B ▲

**Acrolein Application In Kern County**  
**Application, AutoMet1, on 7/25/07 from 0520 through 0955**



Wind Speed ( Miles Per Hour)

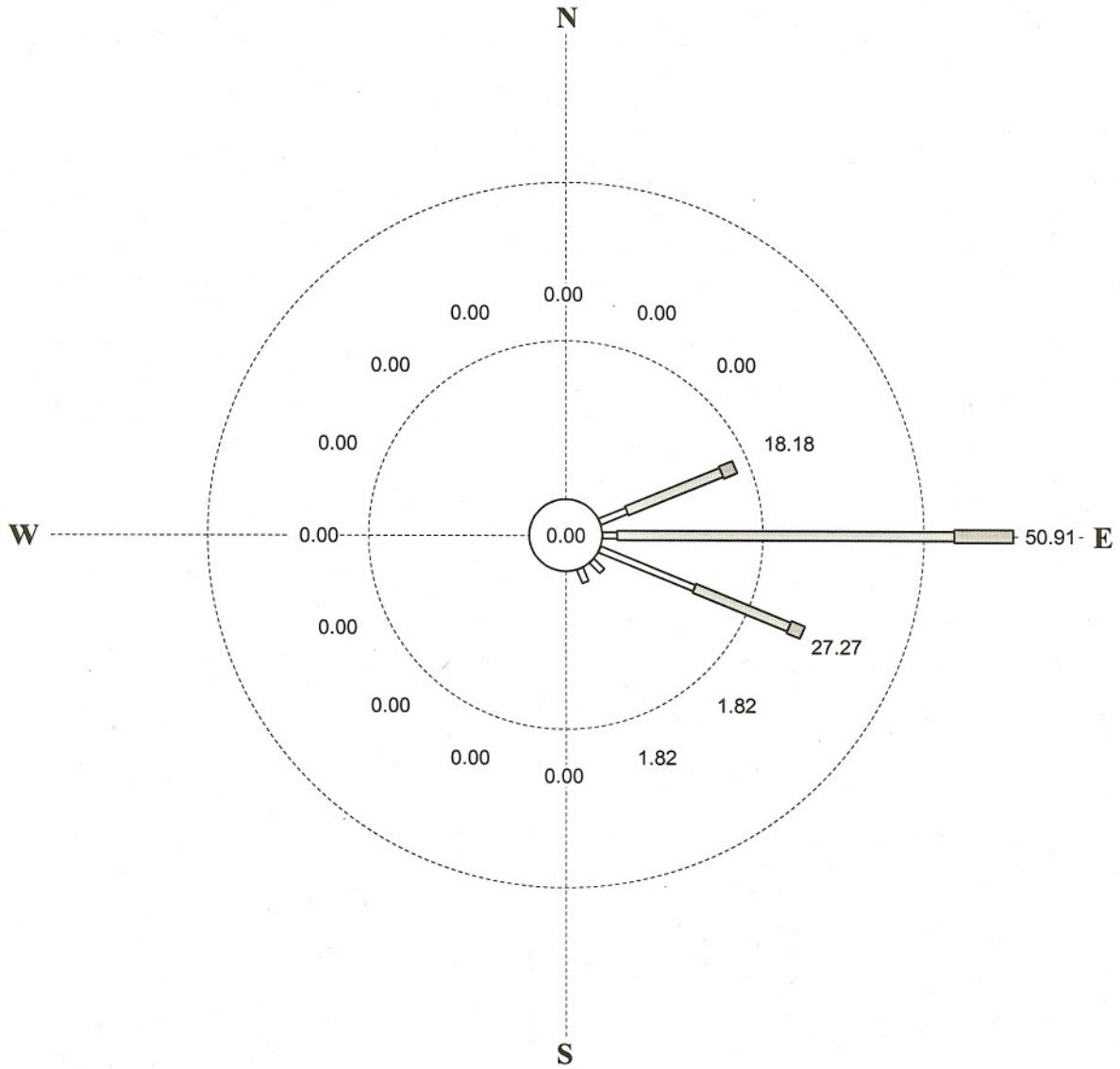
Calms included at center.  
 Rings drawn at 5% intervals.  
 Wind flow is FROM the directions shown.  
 No observations were missing.

### Acrolein 0-1 Section Meteorological Data for July 25, 2007 Application

Date	Time	WS	WD	AT	RH	Sigma	Sampling Periods	
		(MPH)	(Deg)	(°C)	(%)	(Deg)	Start	Stop
7/25/2007	5:20	2.7	148	23.8	49	6	0-1 ▼	
7/25/2007	5:25	2.8	164	23.5	51	12		
7/25/2007	5:30	2.8	185	23.2	51	38		
7/25/2007	5:35	1.5	324	22.5	50	57		
7/25/2007	5:40	2.3	40	22.8	51	11		
7/25/2007	5:45	1.6	26	23.1	50	4		
7/25/2007	5:50	1.9	28	23.2	49	4		
7/25/2007	5:55	1.9	55	23.7	47	9		
7/25/2007	6:00	1.2	119	23.2	56	33		
7/25/2007	6:05	1.9	39	22.7	51	57		
7/25/2007	6:10	1.5	125	22.5	55	50		
7/25/2007	6:15	2.4	150	22.9	54	7		
7/25/2007	6:20	3.2	132	23.2	54	11		
7/25/2007	6:25	4.0	97	23.2	52	16		
7/25/2007	6:30	3.9	102	23.0	50	21		
7/25/2007	6:35	4.7	117	23.2	53	7		
7/25/2007	6:40	5.3	140	23.1	53	6		
7/25/2007	6:45	4.7	153	23.2	51	4		
7/25/2007	6:50	4.0	145	23.3	52	6		
7/25/2007	6:55	4.3	146	23.5	51	8		
7/25/2007	7:00	3.5	171	23.6	49	15		
7/25/2007	7:05	2.5	208	23.4	45	7		
7/25/2007	7:10	1.7	189	23.7	46	16		
7/25/2007	7:15	1.2	132	24.0	46	34		
7/25/2007	7:20	2.3	64	24.3	47	19		
7/25/2007	7:25	2.1	175	25.2	44	51		
7/25/2007	7:30	6.4	226	26.4	41	10		
7/25/2007	7:35	6.5	223	26.8	40	11		
7/25/2007	7:40	7.5	216	27.0	40	12		
7/25/2007	7:45	7.7	226	27.0	39	10		
7/25/2007	7:50	7.3	224	27.2	39	9		
7/25/2007	7:55	6.3	215	27.4	39	20		
7/25/2007	8:00	7.5	184	27.3	41	15		
7/25/2007	8:05	6.4	193	27.3	40	7		
7/25/2007	8:10	7.2	172	27.1	41	10		
7/25/2007	8:15	5.6	179	27.3	41	12		
7/25/2007	8:20	5.9	174	27.4	41	14		
7/25/2007	8:25	7.3	158	27.4	41	11		
7/25/2007	8:30	7.0	158	27.3	42	15		
7/25/2007	8:35	7.0	144	27.2	42	8		
7/25/2007	8:40	5.9	154	27.3	41	12		
7/25/2007	8:45	4.7	152	27.3	44	19		
7/25/2007	8:50	4.4	162	27.4	42	14		

7/25/2007	8:55	5.1	139	27.4	44	17		
7/25/2007	9:00	5.9	149	27.4	43	8		
7/25/2007	9:05	5.7	142	27.5	41	11		
7/25/2007	9:10	5.3	148	27.6	42	23		
7/25/2007	9:15	5.3	129	27.7	42	14		
7/25/2007	9:20	6.8	143	28.0	40	11		
7/25/2007	9:25	6.6	125	28.0	41	11		
7/25/2007	9:30	6.1	122	28.2	38	11		
7/25/2007	9:35	6.4	126	28.3	39	13		
7/25/2007	9:40	6.3	113	28.4	38	15		
7/25/2007	9:45	6.1	116	28.5	38	12		
7/25/2007	9:50	6.7	123	28.7	37	12		
7/25/2007	9:55	5.4	120	28.8	36	13		0-1 ▲

**Acrolein Application In Kern County  
Downstream, AutoMet2, on 7/25/07 from 0740 through 1210**



Wind Speed ( Miles Per Hour)

Calms included at center.  
Rings drawn at 20% intervals.  
Wind flow is FROM the directions shown.  
No observations were missing.



**Acrolein 3.5-4.5 Section Meteorological Data for July 25, 2007 Downstream**

Date	Time	WS	WD	AT	RH	Sigma	Sampling Period	
		(MPH)	(Deg)	(°C)	(%)	(Deg)	Start	Stop
7/25/2007	7:40	2.7	144	27.9	39	24	3.5-4.5 ▼	
7/25/2007	7:45	3.7	153	28.0	40	27		
7/25/2007	7:50	2.9	122	27.9	40	22		
7/25/2007	7:55	3.2	108	28.1	40	28		
7/25/2007	8:00	3.6	117	28.3	40	31		
7/25/2007	8:05	4.5	96	28.4	39	15		
7/25/2007	8:10	6.4	92	28.8	37	10		
7/25/2007	8:15	5.8	88	28.9	38	15		
7/25/2007	8:20	6.1	92	29.2	38	17		
7/25/2007	8:25	6.3	102	29.2	36	12		
7/25/2007	8:30	6.6	103	29.3	35	13		
7/25/2007	8:35	5.7	87	29.5	34	22		
7/25/2007	8:40	5.9	90	29.5	34	18		
7/25/2007	8:45	5.9	78	29.5	35	15		
7/25/2007	8:50	6.0	81	29.7	34	18		
7/25/2007	8:55	7.0	76	30.0	34	16		
7/25/2007	9:00	7.5	86	30.2	32	12		
7/25/2007	9:05	6.6	77	30.0	33	17		
7/25/2007	9:10	6.2	89	30.1	32	23		
7/25/2007	9:15	6.0	72	30.4	32	18		
7/25/2007	9:20	6.6	84	30.5	30	15		
7/25/2007	9:25	5.0	73	31.0	31	16		
7/25/2007	9:30	6.9	101	31.2	29	21		
7/25/2007	9:35	7.8	76	31.2	29	13		
7/25/2007	9:40	6.5	90	31.2	30	16		
7/25/2007	9:45	6.5	108	31.3	30	21		
7/25/2007	9:50	6.9	91	31.9	29	20		
7/25/2007	9:55	7.5	79	32.0	29	17		
7/25/2007	10:00	6.6	90	31.9	29	13		
7/25/2007	10:05	6.7	94	31.9	28	23		
7/25/2007	10:10	8.1	98	32.1	29	17		
7/25/2007	10:15	7.9	104	32.4	28	17		
7/25/2007	10:20	7.9	92	32.3	28	17		
7/25/2007	10:25	8.1	98	32.7	29	21		
7/25/2007	10:30	7.9	100	32.7	28	13		
7/25/2007	10:35	7.0	100	32.8	28	17		
7/25/2007	10:40	7.3	90	32.9	28	19		
7/25/2007	10:45	5.8	91	32.8	28	26		
7/25/2007	10:50	7.0	114	33.1	27	30		
7/25/2007	10:55	5.5	103	32.9	27	22		
7/25/2007	11:00	6.9	110	33.0	27	20		

7/25/2007	11:05	7.4	100	33.4	27	24		
7/25/2007	11:10	6.8	69	33.5	27	15		
7/25/2007	11:15	6.3	87	33.5	26	15		
7/25/2007	11:20	6.0	74	33.6	28	19		
7/25/2007	11:25	5.0	78	33.8	28	45		
7/25/2007	11:30	5.4	81	34.0	26	20		
7/25/2007	11:35	6.4	101	34.1	26	32		
7/25/2007	11:40	5.9	108	34.2	26	26		
7/25/2007	11:45	4.3	108	34.5	26	31		
7/25/2007	11:50	4.8	115	34.4	26	65		
7/25/2007	11:55	4.8	120	34.6	25	28		
7/25/2007	12:00	4.7	101	35.1	25	33		
7/25/2007	12:05	6.5	89	34.9	26	58		
7/25/2007	12:10	6.0	78	35.1	26	27		3.5-4.5 ▲