

**Dr. Panjabrao Deshmukh Krishi Vidyapeeth,  
Akola**



**Product Testing Report**

**"Evaluation of organic Insecticide 'RCM  
RAPID against sucking pests in chilli"**

*Submitted to*  
**M/s.Vyenkatesh Agrotrade Pvt. Ltd.  
Nashik, (M.S.)**

**Year  
2020-21**

*Submitted by*  
**Jr. Breeder cum Horticulturist,  
Chilli and Vegetable Research Unit,  
Dr. PDKV, Akola. (MS)**

**Project Title: Evaluation of organic insecticide"RCM RAPID against sucking pests in hot paper (Chilli)**

**Objectives:** 1.To evaluate the bio-efficacy of RCM RAPID against sucking pests in hot paper (Chilli)  
2.To evaluate the effect of RCM RAPID on natural enemies.

**Target Pests:** Thrips and Mites

**Details of experiment:**

<b>1. CROP DETAILS</b>	
Crop	Chilli ( <i>Capsicum-annuum</i> L.)
Variety	<b>PDKV Hirkani</b>
<b>2. FIELD DETAILS</b>	
Date of Sowing	07.07.2020
Date of transplanting	12.08.2020
Description of the plot plan/crop layout	Randomized block design
Plot size	Gross : 5 m x 5m = 25m <sup>2</sup> Net : 4.5 m x 4.5 m = 20.25m <sup>2</sup>
Spacing	60 cm x 60 cm
Time of application	First application at the occurrence of pests
<b>3. Application details</b>	
No.of applications	Two
Method of application	Required quantity of chemical was dissolved in water applied through knapsack sprayer fitted with hollow cone nozzle.
Application dates	Two applications on 02.09.2020 & 13.09.2020
Dose rate	as per given in schedule
Water volume	500 litres/ha
other pesticides applied to trail plot	Spiromesifen 22.9% SC @ 625 ml/ha
Experiment location	Chilli and Vegetable Research Unit, PDKV, Akola
Treatments	8
Replications	3
Sprayer type	Knapsack sprayer with hollow cone nozzle
Interval between spray application	10 days
Date of Harvesting	Fist picking on 12.10.2020 and next picking were performed at an interval of 8-12 days
Principal investigator	Dr.Vandana D. Mohod Assistant professor(Entomology), Chilli and Vegetable Research Unit Dr.PDKV, Akola

Co-Investigator	<p>1. Dr. S.M. Ghawade Jr. Breeder Cum Horticulturist, CVRU, Dr. PDKV, Akola.</p> <p>2. Dr. N.M. Ingole, Jr. Pathologist Chilli and Vegetable Research Unit, Dr. PDKV, Akola</p> <p>3. Dr. D.S. Phad Jr. Breeder, CVRU, Dr. PDKV, Akola</p>
-----------------	---

**Treatment details:**

Treatments	
T1	Rapid @2ml/lit without spraymax-85
T2	Rapid @2ml/lit with spraymax-85
T3	Rapid @2.5 ml/lit without spraymax-85
T4	Rapid @2.5ml/lit with spraymax-85
T5	Rapid @3 ml/lit without spraymax-85
T6	Rapid @3 ml/lit with spraymax-85
T7	Spiromesifen 22.9% SC @ 625 ml/ha
T8	Control

**Methodology:-**

An experiment was carried out to determine the bio-efficacy of RCM RAPID against sucking pests on Chilli viz, thrips and mites. All the treatments were applied when pest population reached at economic threshold level (ETL) followed by second application at an 10 days interval.

**The following observations were recorded as given in experiment.**

1. The count of thrips and mites (nymph and adult) in 3 top ,middle and bottom leaves in five randomly selected tagged plants in each plot were undertaken. Observation were recorded, before application of each treatment as well as, 3<sup>rd</sup> 7<sup>th</sup> and 10<sup>th</sup> days after each application.
2. Natural enemies like, predatory coccinellids (LBB) and spider population at five randomly selected tagged plants in each plot were recorded at 3,7 and 10 days after each application.
3. At harvesting green chilli fruit yield were recorded at each picking in kg per plot and converted it into qt per ha .

**Statistical analysis:**

The population data for sucking pests and natural enemies were collected and analysed with the help of statistical design and converted into square root transformation for easy and minimum coefficient of variation.

**Table 1. Efficacy of RCM Rapid against Thrips in chilli after spray (Mean of two sprays)**

Tr. No.	Treatments	No. of thrips/leaf			
		Pre count	3 DAS	7 DAS	10 DAS
T <sub>1</sub>	Rapid @ 2ml/lit without spraymax-85	8.43 (2.90)*	6.73 (2.59)	4.40 (2.10)	7.50 (2.70)
T <sub>2</sub>	Rapid @ 2ml/lit with spraymax-85	8.20 (2.86)	6.30 (2.51)	4.27 (2.07)	6.60 (2.57)
T <sub>3</sub>	Rapid @ 2.5 ml/lit without spraymax-85	8.40 (2.90)	6.67 (2.58)	4.33 (2.04)	7.47 (2.73)
T <sub>4</sub>	Rapid @ 2.5ml/lit with spraymax-85	8.23 (2.87)	6.27 (2.50)	4.10 (2.00)	6.43 (2.54)
T <sub>5</sub>	Rapid @ 3 ml/lit without spraymax-85	8.23 (2.87)	6.43 (2.48)	4.30 (2.07)	7.30 (2.70)
T <sub>6</sub>	Rapid @ 3 ml/lit with spraymax-85	8.40 (2.90)	5.33 (2.31)	3.73 (1.91)	5.77 (2.40)
T <sub>7</sub>	Spiromesifen 22.9% SC @ 625 ml/ha	8.67 (2.94)	5.03 (2.24)	3.27 (1.81)	5.33 (2.31)
T <sub>8</sub>	Control	8.77 (2.96)	8.83 (2.97)	9.13 (3.02)	9.27 (3.04)
	SE m±	NS	0.13	0.15	0.12
	CD at 5 %		0.39	0.45	0.36
	CV		8.97	12.25	8.00

\*Figures in parentheses are square root transformation

## **Efficacy of RCM Rapid against thrips in chilli after spray**

### **At 3 days after spray:**

The experiment results indicated that, before application of the spray the population of thrips was uniform and non-significant among all the treatment plots.

The mean population of two spray recorded after the RCM rapid application has shown significant reduction in thrips population compared to untreated control treatment. Among all the treatments, treatments T<sub>7</sub> i.e. Spiromesifen 22.9% SC @ 625 ml/ha recorded least thrips population (5.03 per leaf) and this treatment was at par with application of T<sub>6</sub> Rapid @3ml per lit with spraymax-85 (5.33 thrips/leaf) at 3 days after spray (T<sub>6</sub>) Furthermore, this treatment was followed by treatments T<sub>4</sub>, T<sub>2</sub>, T<sub>5</sub>, T<sub>3</sub> and T<sub>1</sub>(6.27,6.30,6.43,6.67 and 6.73, respectively.) The highest population of thrips was recorded in untreated control ( 8.83 thrips/leaf ) (Table 1).

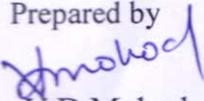
### **At 7 days after spray:-**

From the table 1, it was observed that, the thrips mean population of two spray at 7 days after spray reflected statistically significant results in all the treatments over untreated control. The minimum population of thrips were recorded in treatment T<sub>7</sub> (3.27 Th/leaf) and these treatments were found statistically at par with T<sub>6</sub> (3.73 TH/leaf). The next best treatment in sequence of above treatment was T<sub>4</sub> (4.10). Whereas, the treatments T<sub>2</sub> (4.27),T<sub>5</sub> (4.30), T<sub>3</sub> (4.33) and T<sub>1</sub> (4.40) were observed to be in line after T<sub>4</sub>. The maximum thrips population was recorded in untreated control (9.13/leaf)

### **At 10 days after spray:-**

From the table 1, it is opined that, the thrips mean population of two spray at 10 days interval reflected statistically significant results in all the treatments over untreated control. The lowest population of thrips was recorded in treatment T<sub>7</sub> (5.33 Th/leaf). Further, this treatment was at par with application of Rapid @3ml per lit with spraymax-85 (5.77 thrips/leaf) at 10 days after spray (T<sub>6</sub>), and was followed by treatment T<sub>4</sub>, T<sub>2</sub>, T<sub>5</sub>, T<sub>3</sub> and T<sub>1</sub> (6.43,6.60,7.30,7.47 and 7.50, respectively).

Prepared by

  
Dr. V.D.Mohod

Assistant Research Entomologist  
Chilli and Vegetable Research unit  
Dr. PDKV., Akola

Table 2. Efficacy of RCM Rapid against Mites in chilli after spray (Mean of two sprays)

Tr. No.	Treatments	No. of mites/leaf			
		Pre count	3 DAS	7 DAS	10 DAS
T <sub>1</sub>	Rapid @2ml/lit without spraymax-85	5.13 (2.26)*	4.83 (2.20)	4.20 (2.05)	5.53 (2.35)
T <sub>2</sub>	Rapid @2ml/lit with spraymax-85	5.20 (2.28)	4.47 (2.11)	3.80 (1.95)	5.13 (2.17)
T <sub>3</sub>	Rapid @2.5 ml/lit without spraymax-85	5.27 (2.29)	4.80 (2.16)	3.97 (1.98)	5.50 (2.29)
T <sub>4</sub>	Rapid @2.5ml/lit with spraymax-85	5.23 (2.29)	4.37 (2.09)	3.73 (1.83)	5.07 (2.14)
T <sub>5</sub>	Rapid @3 ml/lit without spraymax-85	5.37 (2.32)	4.50 (2.12)	3.93 (1.98)	5.20 (2.27)
T <sub>6</sub>	Rapid @3 ml/lit with spraymax-85	5.27 (2.29)	4.07 (2.02)	3.23 (1.79)	4.73 (2.11)
T <sub>7</sub>	Spiromesifen 22.9% SC @ 625 ml/ha	5.57 (2.36)	3.77 (1.94)	3.10 (1.75)	4.33 (2.08)
T <sub>8</sub>	Control	5.43 (2.33)	5.70 (2.39)	5.80 (2.41)	6.03 (2.46)
	SE m±	NS	0.10	0.12	0.13
	CD at 5 %		0.30	0.37	0.39
	CV		8.12	10.87	10.20

\*Figures in parentheses are square root transformation

## **Efficacy of RCM Rapid against mites in chilli after spray**

### **At 3 days after spray:**

The experiment results indicated that, before application of the spray the population of mites was uniform and non-significant among all the treatment plots.

The mean population of two sprays recorded after the RCM Rapid application has shown significant reduction in mites population compared to untreated control treatment. Among all the treatments, application of Spiromesifen 22.9% SC @ 625 ml/ha had recorded least population (3.77 mites per leaf) T<sub>7</sub>. This treatment was found statistically at par with treatment T<sub>6</sub> i.e. application of Rapid @3ml per lit with spraymax-85 (4.07 mites/leaf) at 3 days after spray. Further, it was followed by treatments T<sub>4</sub>, T<sub>2</sub>, T<sub>5</sub>, T<sub>3</sub> and T<sub>1</sub> (4.37,4.47,4.50,4.80 and 4.83, respectively). (Table 2)

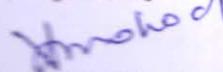
### **At 7 days after spray:-**

From the Table No. 2, it is noticed that, the mites mean population of two spray at 7 days after spray were statistically significant in all the treatments over untreated control. The minimum population 3.10/leaf of mites was recorded in treatment T<sub>7</sub>. This treatment was found statistically at par with T<sub>6</sub>, (3.23 mites per leaf) and T<sub>4</sub> (3.73 mites per leaf) i.e. application of Rapid with spraymax-85. The maximum mites population was recorded in untreated control (5.80 mites/leaf)

### **At 10 days after spray:-**

From the Table No. 2, it is observed that, the mites mean population of two spray at 10 days after spray was statistically significant in all the treatments over untreated control. The lowest population (4.33 mites/leaf) of mites were recorded in treatment T<sub>7</sub> and was at par with T<sub>6</sub>, T<sub>4</sub> and T<sub>2</sub> application of Rapid with spraymax-85 at 10 days after spray (4.73, 5.07 and 5.13 mites per leaf, respectively). The highest (6.03 per leaf) mites were noticed in untreated control.

Prepared by



Dr. V.D. Mohod

Assistant Research Entomologist

Chilli and Vegetable Research unit

Dr. PDKV, Akola

**Table 3. Efficacy of RCM Rapid against natural enemies in chilli after spray (Mean of two sprays)**

Tr. No.	Treatments	Natural enemies/ plant	
		LBB	Spider
T <sub>1</sub>	Rapid @2ml/lit without spraymax-85	0.93 (0.96)	1.57 (1.14)
T <sub>2</sub>	Rapid @2ml/lit with spraymax-85	0.87 (0.92)	1.63 (1.25)
T <sub>3</sub>	Rapid @2.5 ml/lit without spraymax-85	0.80 (0.87)	2.03 (1.42)
T <sub>4</sub>	Rapid @2.5ml/lit with spraymax-85	1.07 (1.02)	1.80 (1.32)
T <sub>5</sub>	Rapid @3 ml/lit without spraymax-85	1.00 (0.97)	2.10 (1.45)
T <sub>6</sub>	Rapid @3 ml/lit with spraymax-85	0.93 (0.93)	1.97 (1.40)
T <sub>7</sub>	Spiromesifen 22.9% SC @ 625 ml/ha	0.47 (0.66)	0.87 (0.92)
T <sub>8</sub>	Control	1.13 (1.06)	2.26 (1.50)
	SE m±	0.11	0.16
	CD at 5 %	NS	NS

**Influence of RCM Rapid on natural enemies:**

The data on counts of *Coccinellids* and *spider* presented in Table 3 in different treatments of Rapid with spraymax-85 clearly indicated that, the count of natural enemies were more or less similar to those recorded in untreated control. This correlation suggested that, there were no adverse effects of Rapid with spraymax-85, on natural enemies due to its spraying.

Prepared by  
*V.D. Mohod*

Dr. V.D.Mohod  
Assistant Research Entomologist  
Chilli and Vegetable Research unit  
Dr. PDKV., Akola

**Table 4. Efficacy of Rapid against leaf curl disease on chilli**

Tr. No.	Treatments	Pre count	Percent disease/plant					
			3 <sup>rd</sup> DAS	Reduction in PDI	7 <sup>th</sup> DAS	Reduction in PDI	10 <sup>th</sup> DAS	Reduction in PDI
T <sub>1</sub>	Rapid @2ml/lit without spraymax-85	1.00	6.56 (2.56)	33.96	6.24 (2.50)	42.04	8.46 (2.91)	43.43
T <sub>2</sub>	Rapid @2ml/lit with spraymax-85	0.89	5.09 (2.25)	48.81	4.79 (2.18)	51.83	7.21 (2.68)	51.79
T <sub>3</sub>	Rapid @2.5 ml/lit without spraymax-85	0.94	5.75 (2.40)	42.13	5.38 (2.32)	45.85	8.30 (2.88)	44.47
T <sub>4</sub>	Rapid @2.5ml/lit with spraymax-85	0.94	4.93 (2.22)	50.35	4.57 (2.14)	54.04	6.75 (2.60)	54.82
T <sub>5</sub>	Rapid @3 ml/lit without spraymax-85	1.04	5.30 (2.30)	46.70	5.02 (2.24)	49.49	8.16 (2.86)	45.43
T <sub>6</sub>	Rapid @3 ml/lit with spraymax-85	1.04	3.82 (1.95)	61.55	3.54 (1.88)	64.40	6.10 (2.47)	59.19
T <sub>7</sub>	Spiromesifen 22.9% SC @ 625 ml/ha	1.02	3.45 (1.85)	65.31	3.21 (1.79)	67.65	5.62 (2.37)	62.40
T <sub>8</sub>	Control	1.03	9.94 (3.28)	-	10.77 (3.15)	-	14.95 (3.87)	-
	F test	NS	Sig.		Sig.		Sig.	
	SE m±	-	0.14		0.14		0.15	
	CD at 5 %	-	0.44		0.44		0.45	

  
(M. N. Ingole)

Associate Professor of Plant Pathology,  
Chilli & Vegetable Unit, Akola

### Effect of RCM Rapid on leaf curl disease in chilli

The data presented in Table no.4, indicted that, Treatment T7 i.e. spraying with Spiromesifen 22.9% SC @ 625ML/ha was recorded highest (62.40%) percent disease reduction in leaf curl of chilli. It was, followed by application of Rapid @3 ml/lit with spraymax-85 (T6), which was observed 59.19% disease reduction over control treatment (T8).

Table 5. Efficacy of RCM Rapid against green fruit yield in chilli

Tr. No.	Treatments	Yield (q/ha.)
T <sub>1</sub>	Rapid @2ml/lit without spraymax-85	111.87
T <sub>2</sub>	Rapid @2ml/lit with spraymax-85	126.97
T <sub>3</sub>	Rapid @2.5 ml/lit without spraymax-85	123.57
T <sub>4</sub>	Rapid @2.5ml/lit with spraymax-85	146.43
T <sub>5</sub>	Rapid @3 ml/lit without spraymax-85	130.23
T <sub>6</sub>	Rapid @3 ml/lit with spraymax-85	154.93
T <sub>7</sub>	Spiromesifen 22.9% SC @ 625 ml/ha	177.10
T <sub>8</sub>	Control	106.07
	SE m±	15.40
	CD at 5 %	46.73
	CV	19.82

\*Figures in parentheses are square root transformation

**Yield:** The green fruit yield data presented in Table 5 showed that, application of treatment T<sub>7</sub> i.e. Spiromesifen 22.9% SC @ 625 ml/ha twice on chilli crop brought the maximum (177.10 q/ha) fruit yield in the present study. This treatment was statistically found at par with Rapid @3 ml/lit with spraymax-85 with 154.93 q/ha (T<sub>6</sub>). The control treatment T<sub>8</sub> recorded minimum (106.07 q/ha) yield of green chilli fruits in present experiment during *Kharif* 2020.

## Special Observation:

1. In present study colour of weight red fruits of chilli was as per the genetical character of University released chilli variety PDKV Hirkani i.e. in the range 39040 CU color value.
2. The average fruit weight of chilli in the present study was reported 3.80 to 4.10g.

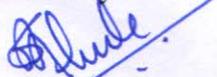
It means due to application of Rapid @3ml per lit. with spraymax-85 does'nt showed any difference or changes in the genetic characters of variety in the present study.

## Conclusion:

- The treatments Spiromesifen 22.9% SC @ 625 ml/ha and Rapid @3 ml/lit with spraymax-85 was found to be significantly superior over rest of the treatments for the management of chilli sucking pests i.e. thrips and mites and naturally it bears higher yield.
- No any adverse effects on population of natural enemies were observed due to the spraying of Rapid @3 ml/lit with spraymax-85 in chilli crop.

**“The report is limited only for product testing trials and not as a recommendation.”**

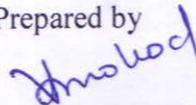
Submitted by



Dr. S.M. Ghawade

Junior Breeder Cum Horticulturist  
Chilli and Vegetable Research unit  
Dr. P.D.K.V., Akola  
AKOLA (M.S.)

Prepared by



Dr. V.D. Mohod  
Assistant Research Entomologist  
Chilli and Vegetable Research unit  
Dr. PDKV., Akola



Director of Research  
Dr. PDKV, Akola  
Dr. P.D.K.V., Akola

Annexure I

Table A: Weekly Weather data for the year 2020 recorded at Meteorological Observatory Department of Agronomy Dr. PDKV., Akola

Sr No	Dates	Actual										2020										Normal				1971-2000			
		T MAX (oC)		T MIN (oC)		BSH (hrs)		WS (km/hr)		RH I (%)		RH II (%)		Evap (mm)		RF (mm)		CRF (mm)		Rainy Days									
		N	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A	N	A								
22	28-3 Jun	41.9	41.3	27.6	27.5	9.7	60.0	16.2	10.2	56.0	60.0	23.0	30.0	16.3	14.9	5.7	5.0	15.4	5.0	0.5									
23	4-10	39.0	35.2	25.8	24.9	8.0	72.3	14.9	10.3	62.0	72.0	30.0	37.0	13.4	9.8	18.3	11.4	20.1	11.4	1.2									
24	11-17	38.2	34.7	25.5	23.7	7.5	84.6	15.4	6.6	71.0	85.0	42.0	57.0	11.1	8.2	43.3	125.4	22.9	43.3	2.0									
25	18-24	35.3	34.7	24.9	25.5	7.1	73.4	15.1	8.9	76.0	73.0	50.0	44.0	9.1	9.2	52.3	1.5	70.6	52.3	2.2									
26	25-1 Jul	34.1	35.2	24.2	24.0	5.3	82.0	13.4	3.2	80.0	82.0	55.0	50.0	7.3	6.2	38.2	21.9	105.0	38.2	2.3									
27	2-8	33.5	33.9	24.4	24.1	5.2	81.0	12.9	5.8	81.0	81.0	58.0	55.0	6.8	5.5	34.7	28.4	158.8	34.7	2.4									
28	9-15	32.3	33.4	23.7	23.7	3.8	86.9	12.0	4.2	84.0	87.0	62.0	60.0	5.5	5.1	52.2	121.2	181.2	52.2	2.8									
29	16-22	32.0	31.3	23.9	23.9	3.3	85.7	11.2	3.1	84.0	86.0	65.0	63.0	5.6	4.5	58.6	55.4	208.5	58.6	2.6									
30	23-29	31.7	32.3	23.3	23.2	4.3	87.1	11.9	2.4	85.0	87.0	64.0	66.0	5.3	4.7	44.2	55.3	314.6	44.2	2.6									
31	30-5 Aug	30.8	32.5	23.4	23.6	3.3	5.8	10.2	2.4	86	87	67	65	4.2	5.2	44.4	310.8	876.6	44.4	2.3	19.0								
32	6-12	29.8	32.5	23.1	423.3	3.1	10.9	10.5	0.7	88	85	71	66	3.8	4.6	58.4	4.1	880.7	58.4	2.9	0.0								
33	13-19	30.4	31.1	23.2	22.0	3.8	3.1	10.4	3.2	87	87	67	71	4.3	5.2	34.3	36.3	917.0	34.3	2.0	2.0								
34	20-26	30.4	26.9	23.0	22.0	4.0	0.2	9.2	5.0	87	93	66	84	4.1	3.9	37.6	109.2	1026.2	37.6	1.8	7.0								
35	27-2 Sep	30.6	28.3	22.8	22.5	4.3	0.4	9.0	5.5	87	89	65	79	4.2	4.1	40.1	57.7	1083.9	40.1	2.1	5.0								
36	3-9	31.0	29.7	22.6	421.7	5.0	3.5	8.3	2.2	87	85	63	65	4.3	4.1	35.0	216.5	1300.4	35.0	1.6	16.0								
37	10-16	32.1	33.1	22.5	22.8	6.3	6.6	7.3	0.7	85	85	57	56	4.8	5.1	25.3	16.6	1317.0	25.3	1.3	1.0								
38	17-23	32.5	33.5	22.4	22.3	6.2	5.6	6.1	1.7	85	89	56	56	4.8	4.4	26.5	25.8	1342.8	26.5	1.7	4.0								
39	24-30	33.3	33.0	22.2	22.0	7.0	4.8	4.8	2.3	85	89	51	63	4.6	4.8	23.7	35.9	1378.7	23.7	1.3	2.0								
40	1-7 Oct	33.6	32.6	21.2	354.1	7.4	7.0	4.3	3.5	82	86	48	55	4.9	5.5	25.3	90.7	1469.4	25.3	1.2	8.0								
41	8-14	33.8	34.2	19.9	21.3	7.8	6.3	3.5	3.3	79	84	41	44	4.9	4.6	14.5	0.0	1469.4	4.6	0.7	0.0								
42	15-21	33.3	32.6	18.1	21.2	7.9	0.2	3.6	0.7	78	88	37	61	4.8	3.5	7.5	14.2	1483.6	4.8	0.5	1.0								
43	22-28	33.0	32.4	16.3	21.5	8.2	4.6	3.3	1.3	74	88	33	57	5.0	4.0	5.9	6.5	1490.1	5.0	0.4	1.0								
44	29-4 Nov	32.6	33.5	15.8	16.2	8.2	7.5	3.7	0.2	74	85	32	38	5.0	4.1	1.9	11.3	1501.4	4.1	0.2	1.0								
45	5-11	32.2	32.7	15.3	415.8	8.2	6.5	3.6	0.6	72	87	33	33	4.8	4.0	3.2	32.0	1533.4	4.8	0.3	3.0								
46	12-18	31.4	32.1	14.5	9.1	8.1	8.3	3.4	0.7	74	82	33	29	4.4	4.5	7.1	0.0	1533.4	4.5	0.3	0.0								
47	19-25	30.8	32.3	13.0	13.2	8.3	8.6	3.1	1.0	72	79	29	30	4.2	5.1	4.5	0.0	1533.4	4.2	0.2	0.0								
48	26-2 Dec	30.7	32.0	12.5	14.9	8.4	6.6	3.2	1.7	70	86	30	35	4.2	4.8	3.8	5.5	1538.9	4.2	0.3	1.0								
49	3-9	30.2	31.6	11.6	415.4	8.2	7.8	3.4	1.8	70	75	30	31	4.1	4.9	2.1	5.5	1544.4	4.1	0.3	1.0								
50	10-16	29.7	31.7	11.0	10.3	8.1	8.8	3.2	0.8	71	82	29	23	4.0	4.7	2.0	0.0	1544.4	4.0	0.3	0.0								
51	17-23	29.5	30.3	10.6	17.3	8.3	4.9	3.4	0.9	70	81	28	36	3.9	3.7	2.0	0.5	1544.9	3.9	0.3	0.0								
52	24-31	29.0	29.1	10.8	11.3	8.0	6.9	3.5	0.9	72	83	31	32	3.9	3.7	4.5	0.0	1544.9	3.9	0.5	0.0								