🗑 Ontario

Ministry of Health and Long-Term Care Public Health Division

### Ontario Influenza Bulletin 2005-2006 Season

## SURVEILLANCE WEEK 19- 20 (May 7- May 20), 2006

This issue of the Ontario Influenza Bulletin provides information on the surveillance period from May 7–20, 2006 (weeks 19 and 20). The analysis for this issue occurred on Thursday May 25, 2006, therefore all data is current to that date.

During the weeks 19 - 20 of 2006, influenza activity in Ontario was lower compared to that of the previous weeks. Fourteen sporadically occurring cases of influenza (13 influenza A and 1 influenza B) were reported through iPHIS. In addition, there was 1 institutional outbreak of influenza A reported. The highest level of influenza activity in Ontario was 'widespread activity' reported from Toronto. One other health unit from Central West region also reported 'widespread activity'. Overall 'localized activity' was reported from Eastern, Central East, Central West, and Southwest regions. North East and North West regions reported 'sporadic activity'.

This is the first alternate week issue of the *Ontario Influenza Bulletin* for the 2005-2006 season. The Bulletin will be published on alternate weeks until November 2007, when weekly publication will resume. Please refer to page 11 of this Bulletin for submission dates of influenza activity reports (Appendix C) for 2005-2006.

Also please note that the GIS map for influenza activity levels by health unit has been temporarily replaced by a table. We apologize for the inconvenience.

For a definition of influenza-like illness (ILI) activity levels and links to websites providing current influenza information from other sources, please refer to the attached Appendix. If you would like to provide feedback on the Bulletin, please contact Shafiq Chowdhury (<u>shafiq.chowdhury@moh.gov.on.ca</u>, 416-327-7807) or Anne-Luise Winter (<u>anne-luise.winter@moh.gov.on.ca</u>, 416-327-7301).

Lab-confirmed	HEALTH REGION							
Influenza cases*	North West	North East	Eastern	Eastern Central East		South West	Central West	TOTAL
Influenza A	0	0	3	0	8	1	1	13
Influenza B	0	0	1	0	0	0	0	1
Influenza A & B	0	0	0	0	0	0	0	0
Unspecified <sup>†</sup>	0	0	0	0	0	0	0	0
Total new cases	0	0	4	0	8	1	1	14
Institutional influenza outbreaks‡	0	0	0	0	1	0	0	1

# Table 1: Summary of laboratory-confirmed influenza cases and institutional influenza outbreaks by health region, May 7– 20 (Weeks 19& 20), 2006.

SOURCE: MOHLTC [iPHIS, Health Unit Reports to PHD, Provincial Appendix D and Appendix E Database]

\* Includes reports of sporadically occurring influenza through iPHIS, as well as cases in institutional outbreaks, with dates of onset in the surveillance period.

† Type of influenza, i.e. A vs B, was not specified in iPHIS (i.e. Influenza subtype dropdown menu left blank or reported as "Unspecified").

<sup>±</sup> Laboratory-confirmed outbreaks in institutions during the surveillance period.

#### Confirmed\* cases of influenza by health unit & health region, with an episode date<sup>†</sup> Table 2: between May 7- 20 (Week 19-20), 2006.

		Laboratory-Confirmed Influenza					
Region	Health Unit	Influenza A	Influenza B	Unspecified <sup>‡</sup>	TOTAL		
st th	Northwestern	0	0	0	0		
North West	Thunder Bay District	0	0	0	0		
	TOTAL NORTH WEST	0	0	0	0		
т.	Algoma	0	0	0	0		
Eas	North Bay Parry Sound District	0	0	0	0		
North East	Porcupine	0	0	0	0		
Noi	Sudbury & District	0	0	0	0		
	Timiskaming	0	0	0	0		
	TOTAL NORTH EAST	0	0	0	0		
	Eastern Ontario	0 0	0 0	0 0	0 0		
E	Hastings & Prince Edward Counties Kingston, Frontenac, Lennox & Addington	0	0	0	0		
Eastern	Leeds, Grenville & Lanark	0	0	0	0		
ů	Ottawa	3	1	õ	4		
	Renfrew	0	0	0	0		
	TOTAL EASTERN	3	1	0	4		
	Durham Region	0	0	0	0		
ast	Haliburton, Kawartha, Pine Ridge District	0	0	0	0		
ŭ	Peterborough County-City	0	0	0	0		
Central East	Simcoe Muskoka District	0	0	0	0		
Ce	York Region	0	0	0	0		
	Peel Region	0	0	0	0		
	TOTAL CENTRAL EAST	0	0	0	0		
đ							
Toronto	Toronto	8	0	0	8		
	TOTAL TORONTO	8	0	0	8		
	Grey-Bruce	1	0	0	1		
	Elgin-St. Thomas	0	0	0	0		
St.	Huron County	0	0	0	0		
South West	Chatham-Kent	0	0	0	0		
Ę	Lambton	0	0	0	0		
Sol	Middlesex-London	0	0	0	0		
	Oxford	0 0	0 0	0 0	0 0		
	Perth District	0	0	0	0		
	Windsor-Essex County TOTAL SOUTHWEST	1	0	0	1		
	Brant	0	0	0	0		
Ħ	Haldimand-Norfolk	0	0 0	0	0		
Central West	Hamilton	0	0	0	0		
alv	Niagara Region	0	0	0	0		
entr	Halton Region	1	0	0	1		
ŭ	Waterloo Region	0	0	0	0		
	Wellington-Dufferin-Guelph	0	0	0	0		
	TOTAL CENTRAL WEST	1	0	0	1		
	TOTAL ONTARIO	13	1	0	14		

SOURCE: MOHLTC [iPHIS, Health Unit Reports to PHD] \* Confirmed cases of influenza can include laboratory-confirmed cases and epi-linked cases.

† Episode Date for a case corresponds to the earliest date on record for the case according to the iPHIS hierarchy (Symptom Date > Clinical Diagnosis Date > Specimen Collection Date > Lab Test Date > Reported Date)

‡Type of influenza, i.e. A vs B, was not specified in iPHIS (i.e. Influenza subtype dropdown menu left blank or reported as unspecified)

#### Cumulative\* confirmed<sup>†</sup> cases of influenza by health unit & health region, September 1, Table 3: 2005 to May 20, 2006.

			Laboratory-Confir		
Region	Health Unit	Influenza A	Influenza B	Unspecified <sup>‡</sup>	TOTAL
rth	Northwestern	7	11	0	18
North West	Thunder Bay District	2	2	0	4
	TOTAL NORTH WEST	9	13	0	22
÷	Algoma	11	7	7	25
as	North Bay Parry Sound District	3	6	11	20
North East	Porcupine	10	28	3	41
ort	Sudbury & District	6	13	1	20
z	Timiskaming	0	0	0	0
	TOTAL NORTH EAST	30	54	22	106
	Eastern Ontario	27	5	2	34
~	Hastings & Prince Edward Counties	24	18	0	42
Eastern	Kingston, Frontenac, Lennox & Addington	17	17	0	34
ast	Leeds, Grenville & Lanark	3	0	23	26
ш	Ottawa	90	18	4	112
	Renfrew	5	6	0	11
	TOTAL EASTERN	166	64	29	259
	Durham Region	10	1	1	12
ast	Haliburton, Kawartha, Pine Ridge District	37	68	1	106
Ш —	Peterborough County-City	2	5	5	12
tra	Simcoe Muskoka District	53	56	18	127
Central East	York Region	29	56	12	97
0	Peel Region	63	76	11	150
	TOTAL CENTRAL EAST	194	262	48	504
0					
Toronto	Toronto	303	199	1	503
	TOTAL TORONTO	303	199	1	503
	Grey-Bruce	30	31	2	63
	Elgin-St. Thomas	2	0	0	2
Ħ	Huron County	10	32	1	43
South West	Chatham-Kent	3	0	2	5
2	Lambton	0	14	0	14
out	Middlesex-London	29	18	4	51
Ň	Oxford	6	15	4	25
	Perth District	4	25	1	30
	Windsor-Essex County	17	10	0	27
	TOTAL SOUTHWEST	101	145	14	260
	Brant	4	5	2	11
st	Haldimand-Norfolk	14	8	0	22
Š	Hamilton	111	92	0	203
Central West	Niagara Region	11	33	4	48
ntr	Halton Region	47	21	16	84
မီ	Waterloo Region	35	51	1	87
	Wellington-Dufferin-Guelph	9	43	9	61
	TOTAL CENTRAL WEST	231	253	32	516
	TOTAL ONTARIO	1034	990	146	2170

SOURCE: MOHLTC [iPHIS, Health Unit Reports to PHD]

\* Cumulative case counts include late reports and records that are otherwise reconciled. Therefore, cumulative counts may not equal new cases plus † Confirmed cases of influenza can include laboratory-confirmed cases and epi-linked cases.
 ‡ Type of influenza, i.e. A vs B, was not specified in iPHIS (i.e. Influenza subtype dropdown menu left blank or reported as unspecified)

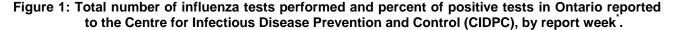
#### Influenza Subtype(s):

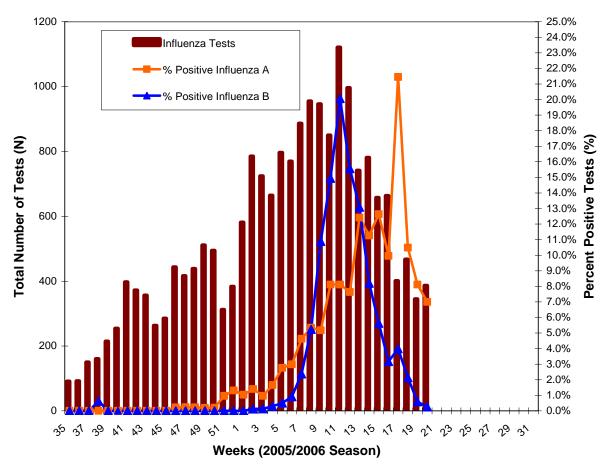
During Weeks 19 and 20, 2,764 isolates were received by the Public Health Agency of Canada, with a total of 145 and 34 testing positive for influenza A and B respectively. The majority of the influenza A isolates (55) were from Ontario (37.9%), Alberta 27 (18.6%), Quebec 21 (14.5%) and New Brunswick 16 (11.0%). The majority of the influenza B isolates (21) were from Quebec (61.8%) and New Brunswick 6 (17.6%).\*

Since the start of the 2005-2006 influenza season, the National Microbiology Laboratory (NML) has antigenically characterized 935 influenza viruses. Although A/California/7/2004(H3N2)-like viruses continue to be identified across the country, in recent weeks, an increasing proportion of A/New Caledonia/20/1999 (H1N1)- like viruses have been identified, almost all of which were isolated from Quebec and Ontario. The A/New Caledonia/20/1999(H1N1)-like virus is the WHO-recommended influenza A/H1N1 component for the 2006-2007 Northern Hemisphere vaccine. Since March 2006, all of the influenza B viruses characterized have been B/Malaysia/2506/2004-like (B/Victoria/02/1987 lineage), which is the recommended influenza B component for next season's vaccine.\*\*

Note: The 2005-2006 season Canadian vaccine contains an A/ New Caledonia/20/1999(H1N1)-like, an A/ California/ 7/2004(H3N2)-like, and a B/Shanghai/361/2002-like virus strain.

\* These data have been obtained from the Respiratory Virus Detection table of Public Health Agency of Canada for weeks 19 & 20, 2006 \*\* These data have been obtained from the FluWatch report of the Public Health Agency of Canada for weeks 18 & 19, 2006





Source: Public Health Agency of Canada

\* Total numbers reported include late reports; therefore totals may not be equal to the sum of the weekly numbers.

Note: Cumulative numbers for season to date are available through FluWatch: http://www.phac-aspc.gc.ca/fluwatch/

#### Table 4: Institutional respiratory outbreaks in Ontario, September 1, 2005 to May 20, 2006

New Outbreaks*	Ν	% (of outbreaks)
Influenza A	1	7.7
Influenza B	0	0.0
Influenza A and B	0	0.0
Parainfluenza (All types)	0	0.0
Other organisms	1	7.7
No organism identified	11	84.6
TOTAL	13	100
Total Respiratory Infection Outbreaks, Season to Date**	Ν	% (of outbreaks)
Influenza A	119	17.1
Influenza B	19	2.7
Influenza A and B	6	0.9
Parainfluenza (All types)	45	6.5
Other organisms	91	13.0
No organism identified	416	59.8
TOTAL	696	100
Types of Institutions (All Outbreaks) **	Ν	% (of outbreaks)
Long-Term Care Homes	582	83.6
Hospitals	44	6.3
Retirement Homes	64	9.2
Other	6	0.9
TOTAL	696	100
Outbreak Related Complications (All Outbreaks) **	Ν	% (of cases)
Deaths		
Residents	231	2.7
Staff	0	0.0
Pneumonia (Chest x-ray confirmed)		
Residents	425	5.0
Staff	24	0.9
Hospitalizations		
Residents	461	5.4

#### Institutional Respiratory Infection Outbreaks

**SOURCE:** MOHLTC [Provincial Appendix D and Appendix E Database]

\* New outbreaks are those in which the date of onset of the first case occurred in the current surveillance period (April 30- May 6, 2006)

\*\* Season to date includes all outbreaks in which the date of onset of the first case occurred between September 1, 2005 and May 6, 2006.

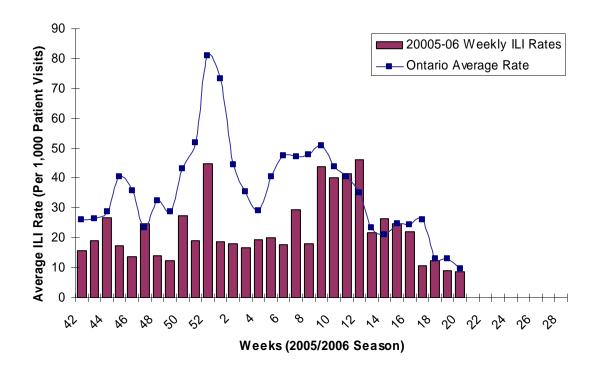
# Table 5:Influenza Activity\* levels in Ontario by health unit & health region for weeks 19 & 20,<br/>between May 7- 20, 2006.

		Influenza Activity* Level					
Region	Health Unit	No Report Received	No Activity	Sporadic	Localized	Widespread	
th st	Northwestern			Х			
North West	Thunder Bay District		Х				
	Algoma			Х			
North East	North Bay Parry Sound District			X			
τ	Porcupine			X			
Yor	Sudbury & District			X			
-	Timiskaming		Х				
	Eastern Ontario	Х					
_	Hastings & Prince Edward Counties				Х		
ern	Kingston, Frontenac, Lennox & Addington		Х				
Eastern	Leeds, Grenville & Lanark		Х				
ш	Ottawa			Х			
	Renfrew		Х				
	Durham Region		Х				
st	Haliburton, Kawartha, Pine Ridge District		~		X		
Еа	Peterborough County-City		Х				
Central East	Simcoe Muskoka District		~		X		
Cen	York Region			Х			
U	Peel Region			X			
Toronto	Toronto					x	
	Grey-Bruce				Х		
	Elgin-St. Thomas		Х				
t	Huron County		Х				
South West	Chatham-Kent	X					
Ę	Lambton	X					
no	Middlesex-London			Х			
0)	Oxford	X					
	Perth District		Х				
	Windsor-Essex County		Х				
	Brant		Х				
*	Haldimand-Norfolk		Х				
Ve	Hamilton					X	
al	Niagara Region			Х			
Central West	Halton Region				Х		
ŭ	Waterloo Region		Х				
	Wellington-Dufferin-Guelph	X					
	TOTAL ONTARIO36 Health Units	5	14	10	5	2	

SOURCE: MOHLTC [Provincial Influenza Activity Report (Appendix C) Database]

\* Influenza activity levels are assigned by local public health units and reported to the MOHLTC by the Tuesday following the end of the surveillance week at 4 pm. Activity levels are assigned based on laboratory confirmations, ILI reports from various sources, and laboratory-confirmed institutional outbreaks. Please refer to detailed definitions for the 2005-2006 season included in the Appendix]

# Figure 3: Average influenza-like illness (ILI) consultation rate (per 1,000 patient visits) reported by sentinel physicians\* in Ontario in 2005- 2006 season, by report week, Compared to Ontario average<sup>†</sup> (1996/96 to 2004/05 seasons).



Source: Public Health Agency of Canada

\* Sentinel physician information is reported to Public Health Agency of Canada.

<sup>†</sup>No data available for mean rate in previous years for weeks 21 to 39 (1996-1997 through 2002-2003 seasons). During weeks 20-39, 2002-2003/2004-2005 seasons, ILI is reported once every two weeks, on even weeks only.

Postal Code	0 – 4	5 – 19	20 – 64	65 +	Unknown
K0C1A0	0	0	0	0	0
K2P1V3	0	0	0	0	0
K7H2W6	0	0	1	0	0
K7L1E9	0	Ő	0	0	0
K0L1C0	0	0	0	0	0
		-			
K0K1H0	0	0	0	0	0
L1A3W4	0	0	0	0	0
K0M1A0	0	0	0	0	0
L1B1H8	0	0	0	0	0
L4J7Y3	0	0	0	0	0
L4G3W3	0	0	0	0	0
M4X1W4	Ő	Ő	Ő	Õ	Ő
M6G4A1	0	0 0	0	0 0	0
M4E1V8	0	0	0	0	0
M8Y1W3	0	0	0	0	0
M2J2Z1	0	0	0	0	0
M2K1E1	0	0	0	0	0
M9W6N5	0	0	0	0	0
M9W4L6	0	0	0	0	0
M8V2Z5	0	0	0	0	0
L5J2W4	0	Ő	0	0	Ő
L4Y2N8					
	0	0	0	0	0
L6V4H6	0	0	0	0	0
L9W1G2	0	0	0	0	0
N1H4G2	0	0	1	0	0
L7R1M6	0	0	0	0	0
L9H1V1	0	1	1	0	0
L9H2G2	0	0	0	0	0
LOR1H0	0	0	0	0	0
L2E1Y3	0	0 0	0	0 0	0
		-	1	1	0
LOR1B0	1	1			-
N3R7K8	0	0	0	0	0
N3C2E2	0	0	0	1	0
N2G1P2	0	0	0	0	0
N2M3B5	0	0	0	0	0
N4W1P9	0	0	0	0	0
N5H1K9	0	0	0	0	0
N0R1G0	0	Ő	0	0	Ő
NOM1TO	0	0	0	0	0
N6C2R5		-			
	0	0	0	0	0
N0G1L0	0	0	0	0	0
L4R4P4	0	0	0	0	0
K0J1B0	0	1	0	0	0
P0H2H0	0	0	0	0	0
P0A1C0	0	1	1	0	0
P0P1S0	0	0	0	0	0
P3E5V5	0	Ő	0	0	0
P4N1C6	0	0	0	0	0
	0				
P7E1H5	0	0	0	0	0
P9N3W7	0	0	0	0	0
ILI Sum	1	4	5	2	0
LI Consultation Rate (per 1,000 patient visits)	11.4	33.9	7.1	4.7	0.0

#### Table 6: Average Influenza-like illness consultation rate (per 1,000 patient visits) reported by Sentinel Physicians\* in Ontario, by age group and postal code for week 19 (May 7-13), 2006.

**Source:** Public Health Agency of Canada \* Sentinel physician information is reported to the Public Health Agency of Canada

Note: The small numbers of sentinel physicians reporting at the local level make the ILI rates unstable. Please interpret these data correspondingly.

Postal Code	0 – 4	5 – 19	20 – 64	65 +	Unknown
K0C1A0	0	0	2	0	0
K2P1V3	0	0	0	0	0
K1J9M2	0	0	0	0	0
K7H2W6	0	0	0	0	0
K7L1E9	0	0	0	0	0
K0L1C0	0	0	0	0	0
K0K1H0	0	0	0	0	0
K0M1A0	0	0	0	0	0
L1B1H8	0	0	0	0	0
L4J7Y3	0	0	0	0	0
M4X1W4	Õ	0 0	0 0	Ő	Ő
M4E1V8	Ő	0	0	0	Ő
M8Y1W3	0	0	0	0	0
M2N6H7	0	0	0	0	0
M2J2Z1	0	0	0	0	0
M3H1T1	0	0	0	0	0
	0				
M2K1E1	-	0	0	0	0
M9W6N5	1	0	0	0	0
L4Y2N8	0	0	0	0	0
L9W1G2	0	0	0	1	0
L9H1V1	0	0	0	0	0
L9H2G2	0	0	0	0	0
LOR1H0	0	0	0	0	0
L2E1Y3	0	0	0	0	0
LOR1B0	1	0	3	0	0
N3R7K8	0	0	0	0	0
N3C2E2	0	0	0	0	0
N2G1P2	0	0	0	0	0
N5H1K9	0	0	0	0	0
N0P2C0	0	0	0	0	0
NOM1T0	0 0	0	0	0	Ő
N6C2R5	Õ	0 0	0 0	0 0	Ő
N0G1L0	Õ	0	1	0	Õ
NOC1E0	Õ	0	0	0	Õ
P0H2H0	Ő	0	0	0	Õ
K0J1B0	0	0	0	0	0
P0A1C0	0	1	0	0	0
	0	0	0	0	0
P0P1S0	-	-	-		
P4N1C6	0	0	0	0	0
P7E1H5	0	0	0	0	0
P0W1E0	0	0	0	0	0
P9N3W7	0	0	0	0	0
P8N2Z6	0	0	0	0	0
ILI Sum	2	1	6	1	0
LI Consultation Rate (per 1,000 patient visits)	30.3	11.4	9.1	3.0	0.0

Table 7: Average Influenza-like illness consultation rate (per 1,000 patient visits) reported by
Sentinel Physicians* in Ontario, by age group and postal code for week 20 (May 14-20), 2006.

Source: Public Health Agency of Canada

\* Sentinel physician information is reported to the Public Health Agency of Canada Note: The small numbers of sentinel physicians reporting at the local level make the ILI rates unstable. Please interpret these data correspondingly.

#### FURTHER INFORMATION

- 1. Ontario Ministry of Health and Long-Term Care Previous issues of the Ontario Influenza Bulletin can be accessed at: www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu\_04/flubul\_mn.html
- Public Health Agency of Canada Issues of FluWatch can be accessed at: <u>www.phac-aspc.gc.ca/fluwatch/</u>
- 3. United States Centers for Disease Control and Prevention www.cdc.gov/flu/

#### **INFORMATION ABOUT AVIAN INFLUENZA**

For latest information on the status of avian influenza worldwide please use the following link:

#### Public Health Agency of Canada

http://www.phac-aspc.gc.ca/h5n1/index.html

#### APPENDIX

#### Definitions for influenza activity levels:

**No Data:** No activity report corresponding to the surveillance week was received at the Ministry of Health and Long-Term Care Call Centre by the Tuesday (at 4 p.m.) following the end of the surveillance period. **No Activity =** No ILI and no laboratory-confirmed cases\* or outbreaks occurred.

**Sporadic:** sporadically occurring ILI <u>AND</u> laboratory-confirmed influenza\* with NO outbreaks detected within the influenza surveillance region†

**Localized:** sporadically occurring ILI <u>AND</u> laboratory-confirmed influenza\* together with outbreaks of ILI in schools and worksites or laboratory confirmed influenza in residential institutions occurring in less than 50% of the influenza surveillance region(s)

**Widespread:** sporadically occurring ILI <u>AND</u> laboratory-confirmed influenza\* together with outbreaks of ILI in schools and worksites or laboratory-confirmed influenza in residential institutions occurring in greater than or equal to 50% of the influenza surveillance region(s)

\* Confirmation of influenza within the surveillance region at any time within the prior four weeks

† Sub-regions within the province or territory as defined by the provincial/territorial epidemiologist

#### Influenza-Like Illness (ILI) Definitions:

#### A) ILI in the general population:

Acute onset of respiratory illness with fever and cough and with one or more of the following - sore throat, arthralgia, myalgia, or prostration which could be due to influenza virus. In children under 5, gastrointestinal symptoms may also be present. In patients under 5 or 65 and older, fever may not be prominent.

#### B) ILI/Influenza outbreaks:

Schools and work sites: greater than 10% absenteeism on any day most likely due to ILI.

**Residential institutions:** two or more cases of ILI within a seven-day period, including at least one laboratory-confirmed case.

## Reporting Schedule for Influenza Activity Reports (Appendix C) for the remaining 2005-2006 Season

Week	From To	Submit to MOHLTC by
19 - 20	May 7, 2006 – May 20, 2006	Tuesday May 23, 2006
21 -22	May 21, 2006 – June 3, 2006	Tuesday June 6, 2006
23 - 24	June 4, 2006 – June 17, 2006	Tuesday June 20, 2006
25 - 26	June 18, 2006 – July 1, 2006	Tuesday July 4, 2006
27 - 28	July 2, 2006 – July 15, 2006	Tuesday July 18, 2006
29 - 30	July 16, 2006 – July 29, 2006	Tuesday August 1, 2006
31 - 32	July 30, 2006 – August 12, 2006	Tuesday August 15, 2006
33 - 34	August 13, 2006 – August 26, 2006	Tuesday August 29, 2006