

## Republic of Kenya Ministry of Public Health and Sanitation

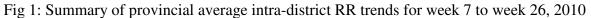
## WEEKLY EPIDEMIOLOGICAL BULLETIN

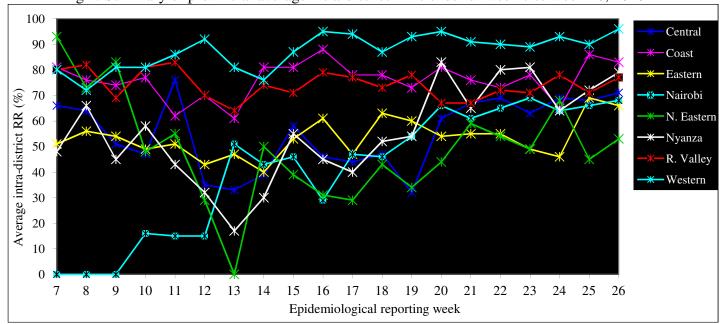
Week 26

Week ending 4<sup>th</sup> July 2010

Provincial & national surveillance indicators for week 26

| Province   | No. of<br>Districts | Reporti<br>ng on<br>time | Complete reports | Intra-district<br>facility RR<br>(%) | Timel iness (%) | Completeness of reports (%) | Weighted aggregate score (%) | The national average district          |
|------------|---------------------|--------------------------|------------------|--------------------------------------|-----------------|-----------------------------|------------------------------|--|
| Central    | 11                  | 11                       | 11               | 71                                   | 100             | 100                         | 90                           | reporting rate rose<br>markedly to 99% |
| Coast      | 13                  | 13                       | 13               | 83                                   | 100             | 100                         | 94                           |  |
| Eastern    | 28                  | 28                       | 28               | 66                                   | 100             | 100                         | 89                           | The national weighted aggregate        |
| Nairobi    | 3                   | 3                        | 3                | 68                                   | 100             | 100                         | 89                           | score also rose to                     |
| N. Eastern | 11                  | 10                       | 10               | 53                                   | 91              | 100                         | 80                           | 91%                                    |
| Nyanza     | 21                  | 21                       | 21               | 79                                   | 100             | 100                         | 93                           | <b>⊕</b> All provinces except North    |
| R. Valley  | 43                  | 43                       | 43               | 77                                   | 100             | 100                         | 92                           | Eastern attained                       |
| Western    | 19                  | 19                       | 19               | 96                                   | 100             | 100                         | 99                           | 100% district reporting rate in        |
| National   | 149                 | 148                      | 148              | 75                                   | 99              | 100                         | 91                           | week 26                                |





Reports not received from the following District

**Wajir West** 

Deaths Cases 300 12 250 10 200 8 No. of deaths No. of cases 150 6 100 50 2 0 0 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

Fig. 2: Cholera\*\* cases and deaths from week 1 to week 26

\*\* Derived from daily updates (line-lists and active DDSR inquiry). A national DDSR officer calls districts in cholera outbreak every morning to get updates

**Epidemiological reporting week** 

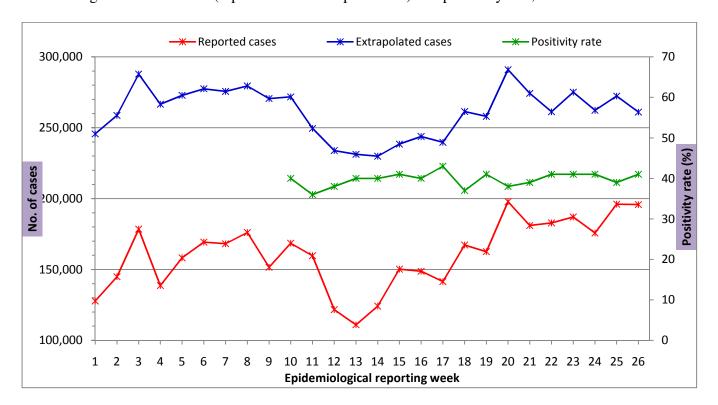


Fig. 3: Malaria cases (reported\* and extrapolated\*\*) and positivity rate, week 1 to week 26

<sup>\*</sup> Cases reported by health facilities that submitted weekly reports during the reporting week

<sup>\*\*</sup> Extrapolated from reported cases considering the intra-district reporting rate for the week

## Highlights for the week

## Nationally:

- The surveillance weighted aggregate score rose from 88% in week 25 to 91% in week 26
- The number of districts that submitted reports on time rose markedly from 142 (95%) in week 25 to 148 (99%)
- The intra-district average reporting rate rose 72% to 75%

## **Best performing provinces:**

- Western (99%), Coast (94%) and Nyanza (93%) provinces had the highest surveillance weighted aggregate score while North Eastern (80%) province had the lowest score, though improved
- All provinces except North Eastern (91%) had 100% district reporting rate
- Western (96%) Province had the highest intra-district facility reporting rate while North Eastern (53%) had the lowest rate
- Most improved provinces:
  - Intra-district facility RR: North Eastern (45% to 53%) and Nyanza (72% to 79%) improved the most while Coast (86% to 83%) and Eastern (69% to 66%) declined the most
  - District reporting rate: North eastern (82% to 91%) and Rift Valley (93% to 100%) provinces improved the most
    - No province declined in performance
- Stability: Western remains the most stable province while North Eastern province is still fluctuating
- The following 28 (19%) districts (same as in week 25) attained 100% intra-district reporting rate: Nyeri South, Kilindini, Taita, Taveta, Imenti South, Maara, Meru South, Gucha, Kisii South, Kisumu West, Masaba, Nyamira, South Gucha, Eldoret East, Sotik, Trans Nzoia West, Bunyala, Busia, Butere, East Bungoma, Emuhaya, Kakamega East, Kakamega North, Lugari, Mt Elgon, North Bungoma, Samia, South Bungoma

## **Disease specific reports**

#### Cholera

- Only 5 cases (down from 9 in week 25) were reported in week 26 with no death
- Four (80%) cases were reported from Turkana Central District
- One case was reported from Turkana South district

#### Measles

- 12 suspected cases (a fall from 19 in week 25) were reported with no death
- The cases were reported form Kipkelion (6), Kiambu West (4), Kitui (1) and Trans-Nzoia (1) districts
- The lab surveillance system investigated 32 case specimen from 14 districts
  - None of the specimen tested positive for measles though 10 (31%) tested positive for rubella

#### Malaria

- Properties the Reported cases declined from 196,077 in week 25 to 195,785 in week 26
- Mortality however rose from 38 to 48
- Overall, 63,699 cases (33%) were laboratory tested, yielding a positivity rate of 41%

#### Dysentery

- The number of reported cases declined from 1,564 in week 25 to 1,100 in week 26
- Four deaths were reported, 2 each from Nairobi West and South Bungoma Districts

#### *Typhoid fever*

Reported cases declined from 5,416 in week 25 to 4.448 with no death

### AFP

• No cases were reported in the week

## Meningococcal Meningitis

- Six cases were reported up from one in week 25
- Reported from Laikipia East (5) and Kuria West (1)

### NNT

- One case was reported from Migori district
- The case died

For comments please contact: Head, Division of Disease Surveillance and Response

Ministry of Health P.O. Box 20781 - 00202

Tel. 2718292 Fax: 0202720533

Email: dcdc@health.go.ke; or idsr@health.go.ke

Web site: http://www.health.go.ke

Editorial: Dr. D. Mutonga, Dr. C. Nzioka, Dr. M. Ope, Dr. D. Langat, Dr. P. Muthoka, Dr. O. Shikanga,

C. Njuguna, J. Njau, J. Njoroge, H. Limo, Z. Irura, M. Badel, C. Maina, E. Kathini, R. Kalani,

D. Mwangi, A. Muange, J. Ayaga, P. Njiru

# Summary of Weekly Integrated Disease Surveillance and Response Report for week 26

| Province | District        | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria | Malaria<br>Tested | Malaria<br>Positive | Measles | ММ   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|----------|-----------------|---------------------|---------|---------|-----------|---------|-------------------|---------------------|---------|------|---------|------|------|------|--------|-----------------|
| Central  |                 |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Gatundu         | 43                  | 86      | 0(0)    | 0(0)      | 248(0)  | 0                 | 0                   | 0(0)    | 0(0) | 8(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kiambu East     | 34                  | 97      | 0(0)    | 0(0)      | 1294(0) | 1682              | 338                 | 0(0)    | 0(0) | 199(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kiambu West     | 54                  | 57      | 0(0)    | 0(0)      | 584(0)  | 569               | 93                  | 4(0)    | 0(0) | 73(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kirinyaga       | 87                  | 67      | 0(0)    | 0(0)      | 1170(0) | 628               | 73                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Murang'a North  | 41                  | 44      | 0(0)    | 0(0)      | 389(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Murang'a South  | 40                  | 43      | 0(0)    | 0(0)      | 1129(0) | 331               | 53                  | 0(0)    | 0(0) | 31(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyandarua North | 30                  | 87      | 0(0)    | 0(0)      | 445(0)  | 0                 | 0                   | 0(0)    | 0(0) | 139(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyandarua South | 22                  | 95      | 0(0)    | 0(0)      | 173(0)  | 57                | 3                   | 0(0)    | 0(0) | 37(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyeri North     | 70                  | 80      | 0(0)    | 0(0)      | 327(0)  | 230               | 17                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyeri South     | 52                  | 100     | 0(0)    | 0(0)      | 151(0)  | 30                | 10                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Thika           | 100                 | 55      | 0(0)    | 0(0)      | 1603(0) | 823               | 83                  | 0(0)    | 0(0) | 34(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Coast    |                 |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Kaloleni        | 18                  | 72      | 0(0)    | 50(0)     | 1527(0) | 289               | 66                  | 0(0)    | 0(0) | 16(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kilifi          | 36                  | 89      | 0(0)    | 57(0)     | 2539(0) | 167               | 116                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kilindini       | 40                  | 100     | 0(0)    | 0(0)      | 1899(0) | 1403              | 566                 | 0(0)    | 0(0) | 8(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kinango         | 18                  | 72      | 0(0)    | 0(0)      | 1740(1) | 373               | 89                  | 0(0)    | 0(0) | 5(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kwale           | 20                  | 55      | 0(0)    | 2(0)      | 529(0)  | 116               | 10                  | 0(0)    | 0(0) | 4(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Lamu            | 33                  | 70      | 0(0)    | 0(0)      | 1170(0) | 392               | 57                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Malindi         | 33                  | 85      | 0(0)    | 64(0)     | 1514(0) | 370               | 58                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mombasa         | 30                  | 97      | 0(0)    | 0(0)      | 1167(0) | 794               | 90                  | 0(0)    | 0(0) | 51(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Msambweni       | 21                  | 52      | 0(0)    | 0(0)      | 73(0)   | 31                | 7                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Taita           | 44                  | 100     | 0(0)    | 0(0)      | 977(0)  | 1198              | 208                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Tana Delta      | 16                  | 88      | 0(0)    | 13(0)     | 914(0)  | 130               | 13                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Tana River      | 21                  | 71      | 0(0)    | 8(0)      | 446(0)  | 248               | 74                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Taveta          | 12                  | 100     | 0(0)    | 0(0)      | 1908(0) | 403               | 135                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Eastern  |                 |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Chalbi          | 11                  | 27      | 0(0)    | 2(0)      | 53(0)   | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Embu            | 70                  | 50      | 0(0)    | 0(0)      | 3779(0) | 1323              | 1061                | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |

| Province | District      | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria | Malaria<br>Tested | Malaria<br>Positive | Measles | ММ   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|----------|---------------|---------------------|---------|---------|-----------|---------|-------------------|---------------------|---------|------|---------|------|------|------|--------|-----------------|
|          | Garbatula     | 12                  | 75      | 0(0)    | 0(0)      | 289(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Igembe        | 43                  | 47      | 0(0)    | 0(0)      | 1820(0) | 1037              | 526                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Imenti North  | 55                  | 76      | 0(0)    | 0(0)      | 1443(0) | 1784              | 747                 | 0(0)    | 0(0) | 44(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Imenti Souith | 68                  | 100     | 0(0)    | 0(0)      | 3383(0) | 3205              | 1912                | 0(0)    | 0(0) | 122(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Isiolo        | 24                  | 21      | 0(0)    | 0(0)      | 293(0)  | 184               | 40                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kangundo      | 28                  | 57      | 0(0)    | 0(0)      | 1047(0) | 59                | 19                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kibwezi       | 27                  | 89      | 0(0)    | 0(0)      | 1589(0) | 572               | 222                 | 0(0)    | 0(0) | 109(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kitui         | 77                  | 82      | 0(0)    | 0(0)      | 3663(3) | 807               | 449                 | 1(0)    | 0(0) | 6(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kyuso         | 22                  | 68      | 0(0)    | 0(0)      | 1003(0) | 115               | 53                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Laisamis      | 11                  | 36      | 0(0)    | 0(0)      | 52(0)   | 35                | 10                  | 0(0)    | 0(0) | 7(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Maara         | 25                  | 100     | 0(0)    | 0(0)      | 1956(0) | 1078              | 757                 | 0(0)    | 0(0) | 38(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Machakos      | 31                  | 48      | 0(0)    | 0(0)      | 879(0)  | 187               | 65                  | 0(0)    | 0(0) | 55(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Makueni       | 33                  | 61      | 0(0)    | 0(0)      | 1449(3) | 524               | 42                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Marsabit      | 10                  | 20      | 0(0)    | 0(0)      | 209(0)  | 209               | 40                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mbeere        | 28                  | 93      | 0(0)    | 5(0)      | 2496(0) | 981               | 439                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mbooni        | 20                  | 85      | 0(0)    | 0(0)      | 852(0)  | 291               | 38                  | 0(0)    | 0(0) | 13(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Meru Central  | 21                  | 67      | 0(0)    | 0(0)      | 383(0)  | 312               | 244                 | 0(0)    | 0(0) | 20(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Meru South    | 20                  | 100     | 0(0)    | 0(0)      | 1767(0) | 1220              | 753                 | 0(0)    | 0(0) | 42(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Moyale        | 15                  | 73      | 0(0)    | 17(0)     | 312(0)  | 106               | 9                   | 0(0)    | 0(0) | 16(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mutomo        | 16                  | 75      | 0(0)    | 0(0)      | 618(0)  | 164               | 15                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mwala         | 30                  | 77      | 0(0)    | 1(0)      | 1481(0) | 245               | 100                 | 0(0)    | 0(0) | 72(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mwingi        | 45                  | 67      | 0(0)    | 38(0)     | 1254(0) | 158               | 78                  | 0(0)    | 0(0) | 16(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nzaui         | 43                  | 30      | 0(0)    | 0(0)      | 1241(0) | 236               | 41                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Tharaka       | 20                  | 35      | 0(0)    | 0(0)      | 369(0)  | 347               | 148                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Tigania       | 28                  | 64      | 0(0)    | 0(0)      | 2357(0) | 0                 | 0                   | 0(0)    | 0(0) | 20(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Yatta         | 43                  | 53      | 0(0)    | 0(0)      | 1531(0) | 142               | 46                  | 0(0)    | 0(0) | 23(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Nairobi  |               |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Nairobi East  | 51                  | 41      | 0(0)    | 1(0)      | 70(0)   | 32                | 3                   | 0(0)    | 0(0) | 10(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nairobi North | 81                  |         |         |           | 785(0)  | 0                 | 0                   | 0(0)    | 0(0) |         |      | 0(0) |      |        | 0(0)            |
|          | Nairobi West  | 71                  | 56      | 0(0)    | 41(2)     | 616(0)  | 641               | 186                 | 0(0)    | 0(0) |         |      | 0(0) | 0(0) |        | 0(0)            |
| North    |               |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |

| Province | District        | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria | Malaria<br>Tested | Malaria<br>Positive | Measles | ММ   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|----------|-----------------|---------------------|---------|---------|-----------|---------|-------------------|---------------------|---------|------|---------|------|------|------|--------|-----------------|
| Eastern  |                 |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Fafi            | 4                   | 50      | 0(0)    | 0(0)      | 119(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Garissa         | 23                  | 57      | 0(0)    | 0(0)      | 939(0)  | 1517              | 717                 | 0(0)    | 0(0) | 53(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Ijara           | 9                   | 56      | 0(0)    | 0(0)      | 272(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Lagdera         | 13                  | 54      | 0(0)    | 4(0)      | 212(0)  | 128               | 9                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mandera Central | 9                   | 78      | 0(0)    | 0(0)      | 307(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mandera East    | 8                   | 63      | 0(0)    | 0(0)      | 204(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mandera West    | 8                   | 75      | 0(0)    | 0(0)      | 537(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Wajir West      | 8                   | 38      | 0(0)    | 0(0)      | 207(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Wajir East      | 9                   | 0       | DNR     | DNR       | DNR     | 0                 | 0                   | DNR     | DNR  | DNR     | DNR  | DNR  | DNR  | DNR    | DNR             |
|          | Wajir North     | 8                   | 50      | 0(0)    | 0(0)      | 192(0)  | 0                 | 0                   | 0(0)    | 0(0) | 7(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Wajir South     | 9                   | 56      | 0(0)    | 0(0)      | 322(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Nyanza   |                 |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Bondo           | 25                  | 92      | 0(0)    | 95(0)     | 3053(0) | 510               | 285                 | 0(0)    | 0(0) | 67(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Borabu          | 27                  | 52      | 0(0)    | 0(0)      | 1224(0) | 885               | 646                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Gucha           | 35                  | 100     | 0(0)    | 0(0)      | 2454(0) | 1298              | 128                 | 0(0)    | 0(0) | 10(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Homa Bay        | 42                  | 71      | 0(0)    | 3(0)      | 3044(3) | 1255              | 361                 | 0(0)    | 0(0) | 63(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kisii Central   | 42                  | 90      | 0(0)    | 0(0)      | 2026(0) | 1000              | 74                  | 0(0)    | 0(0) | 55(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kisii South     | 11                  | 100     | 0(0)    | 5(0)      | 692(0)  | 327               | 77                  | 0(0)    | 0(0) | 4(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kisumu East     | 55                  | 82      | 0(0)    | 3(0)      | 4162(0) | 0                 | 0                   | 0(0)    | 0(0) | 13(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kisumu West     | 18                  | 100     | 0(0)    | 0(0)      | 3344(0) | 0                 | 0                   | 0(0)    | 0(0) | 19(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kuria East      | 13                  | 85      | 0(0)    | 4(0)      | 434(0)  | 0                 | 0                   | 0(0)    | 0(0) | 12(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kuria West      | 24                  | 83      | 0(0)    | 1(0)      | 1364(0) | 112               | 27                  | 0(0)    | 1(0) | 3(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Manga           | 17                  | 94      | 0(0)    | 0(0)      | 377(2)  | 167               | 27                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Masaba          | 32                  | 100     | 0(0)    | 0(0)      | 1025(0) | 388               | 33                  | 0(0)    | 0(0) | 19(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Migori          | 42                  | 64      | 0(0)    | 5(0)      | 1185(0) | 217               | 67                  | 0(0)    | 0(0) | 7(0)    | 1(1) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyamira         | 45                  | 100     | 0(0)    | 1(0)      | 1226(1) | 0                 | 0                   | 0(0)    | 0(0) | 24(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Nyando          | 42                  | 83      | 0(0)    | 5(0)      | 2003(0) | 458               | 310                 | 0(0)    | 0(0) | 13(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Rachuonyo       | 34                  | 85      | 0(0)    | 2(0)      | 1954(0) | 0                 | 0                   | 0(0)    | 0(0) | 23(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Rarienda        | 18                  | 89      | 0(0)    | 4(0)      | 2824(0) | 885               | 364                 | 0(0)    | 0(0) | 35(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Rongo           | 32                  | 50      | 0(0)    | 29(0)     | 1941(0) | 0                 | 0                   | 0(0)    | 0(0) | 75(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |

| Province    | District       | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria | Malaria<br>Tested | Malaria<br>Positive | Measles | ММ   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|-------------|----------------|---------------------|---------|---------|-----------|---------|-------------------|---------------------|---------|------|---------|------|------|------|--------|-----------------|
|             | Siaya          | 72                  | 53      | 0(0)    | 11(0)     | 2944(0) | 0                 | 0                   | 0(0)    | 0(0) | 20(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | South Gucha    | 13                  | 100     | 0(0)    | 0(0)      | 835(0)  | 263               | 41                  | 0(0)    | 0(0) | 8(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Suba           | 58                  | 67      | 0(0)    | 41(0)     | 1576(0) | 187               | 60                  | 0(0)    | 0(0) | 18(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Rift Valley |                |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|             | Baringo        | 50                  | 60      | 0(0)    | 0(0)      | 662(0)  | 0                 | 0                   | 0(0)    | 0(0) | 12(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Baringo North  | 33                  | 64      | 0(0)    | 1(0)      | 501(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Bomet          | 38                  | 97      | 0(0)    | 1(0)      | 1978(0) | 481               | 87                  | 0(0)    | 0(0) | 58(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Bureti         | 32                  | 88      | 0(0)    | 0(0)      | 1252(0) | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | East Pokot     | 9                   | 33      | 0(0)    | 0(0)      | 650(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Eldoret East   | 36                  | 100     | 0(0)    | 0(0)      | 1618(0) | 800               | 271                 | 0(0)    | 0(0) | 25(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Eldoret West   | 40                  | 90      | 0(0)    | 5(0)      | 2407(0) | 890               | 285                 | 0(0)    | 0(0) | 126(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Kajiado        | 35                  | 49      | 0(0)    | 34(0)     | 1053(0) | 112               | 48                  | 0(0)    | 0(0) | 36(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Keiyo          | 36                  | 92      | 0(0)    | 22(0)     | 917(0)  | 193               | 32                  | 0(0)    | 0(0) | 68(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Kericho        | 30                  | 93      | 0(0)    | 0(0)      | 1147(0) | 194               | 17                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Kipkelion      | 38                  | 79      | 0(0)    | 0(0)      | 559(0)  | 0                 | 0                   | 6(0)    | 0(0) | 6(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Koibatek       | 31                  | 87      | 0(0)    | 1(0)      | 905(0)  | 399               | 110                 | 0(0)    | 0(0) | 28(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Kwanza         | 17                  | 88      | 0(0)    | 0(0)      | 1377(0) | 482               | 203                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Laikipia East  | 14                  | 86      | 0(0)    | 0(0)      | 484(0)  | 0                 | 0                   | 0(0)    | 5(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Laikipia North | 9                   | 89      | 0(0)    | 0(0)      | 108(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Laikipia West  | 25                  | 92      | 0(0)    | 0(0)      | 834(0)  | 0                 | 0                   | 0(0)    | 0(0) | 20(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Loitoktok      | 23                  | 74      | 0(0)    | 149(0)    | 667(0)  | 0                 | 0                   | 0(0)    | 0(0) | 217(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Marakwet       | 54                  | 81      | 0(0)    | 67(0)     | 1043(0) | 437               | 335                 | 0(0)    | 0(0) | 69(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Molo           | 34                  | 53      | 0(0)    | 0(0)      | 527(0)  | 0                 | 0                   | 0(0)    | 0(0) | 6(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Naivasha       | 35                  | 77      | 0(0)    | 18(0)     | 1133(0) | 0                 | 0                   | 0(0)    | 0(0) | 74(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nakuru         | 45                  | 93      | 0(0)    | 0(0)      | 591(2)  | 882               | 50                  | 0(0)    | 0(0) | 123(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nakuru North   | 29                  | 72      | 0(0)    | 0(0)      | 411(0)  | 183               | 57                  | 0(0)    | 0(0) | 77(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nandi Central  | 22                  | 50      | 0(0)    | 0(0)      | 788(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nandi East     | 32                  | 78      | 0(0)    | 28(0)     | 948(1)  | 381               | 89                  | 0(0)    | 0(0) | 17(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nandi North    | 20                  | 75      | 0(0)    | 0(0)      | 893(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Nandi South    | 16                  | 88      | 0(0)    | 0(0)      | 1519(0) | 132               | 70                  | 0(0)    | 0(0) | 20(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|             | Narok North    | 29                  | 55      | 0(0)    | 1(0)      | 521(0)  | 172               | 47                  | 0(0)    | 0(0) | 8(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |

| Province | District                   | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria | Malaria<br>Tested | Malaria<br>Positive | Measles | MM   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|----------|----------------------------|---------------------|---------|---------|-----------|---------|-------------------|---------------------|---------|------|---------|------|------|------|--------|-----------------|
|          | Narok South                | 30                  | 57      | 0(0)    | 20(0)     | 332(0)  | 109               | 39                  | 0(0)    | 0(0) | 24(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | North Pokot                | 12                  | 67      | 0(0)    | 17(0)     | 1180(0) | 450               | 211                 | 0(0)    | 0(0) | 27(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Pokot Central              | 18                  | 94      | 0(0)    | 0(0)      | 1401(0) | 273               | 99                  | 0(0)    | 0(0) | 47(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Samburu                    | 16                  | 19      | 0(0)    | 12(0)     | 231(0)  | 0                 | 0                   | 0(0)    | 0(0) | 23(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Samburu East               | 15                  | 60      | 0(0)    | 0(0)      | 328(0)  | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Samburu North              | 8                   | 25      | 0(0)    | 9(0)      | 181(0)  | 0                 | 0                   | 0(0)    | 0(0) | 5(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Sotik                      | 29                  | 100     | 0(0)    | 0(0)      | 1532(0) | 223               | 19                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Tinderet                   | 10                  | 80      | 0(0)    | 6(0)      | 195(0)  | 150               | 21                  | 0(0)    | 0(0) | 34(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Trans Nzoia East           | 20                  | 95      | 0(0)    | 0(0)      | 969(0)  | 851               | 335                 | 0(0)    | 0(0) | 145(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Trans Nzoia West           | 22                  | 100     | 0(0)    | 16(0)     | 1702(0) | 744               | 270                 | 1(0)    | 0(0) | 8(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Transmara                  | 39                  | 36      | 0(0)    | 0(0)      | 549(0)  | 37                | 3                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Turkana Central            | 31                  | 74      | 4(0)    | 26(0)     | 2134(2) | 662               | 425                 | 0(0)    | 0(0) | 25(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Turkana North              | 21                  | 95      | 0(0)    | 7(0)      | 1092(0) | 1133              | 477                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Turkana South              | 18                  | 78      | 1(0)    | 0(0)      | 660(0)  | 112               | 51                  | 0(0)    | 0(0) | 2(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Wareng                     | 38                  | 97      | 0(0)    | 0(0)      | 1342(0) | 447               | 172                 | 0(0)    | 0(0) | 25(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | West Pokot                 | 26                  | 77      | 0(0)    | 0(0)      | 1874(1) | 564               | 165                 | 0(0)    | 0(0) | 113(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
| Western  |                            |                     |         |         |           |         |                   |                     |         |      |         |      |      |      |        |                 |
|          | Bunyala                    | 7                   | 100     | 0(0)    | 0(0)      | 1176(0) | 0                 | 0                   | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Busia                      | 27                  | 100     | 0(0)    | 41(0)     | 5364(0) | 2090              | 1381                | 0(0)    | 0(0) | 176(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Butere                     | 16                  | 100     | 0(0)    | 8(0)      | 4502(0) | 1159              | 540                 | 0(0)    | 0(0) | 57(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | East Bungoma               | 11                  | 100     | 0(0)    | 0(0)      | 2603(9) | 1755              | 648                 | 0(0)    | 0(0) | 87(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Emuhaya                    | 22                  | 100     | 0(0)    | 0(0)      | 2137(0) | 278               | 146                 | 0(0)    | 0(0) | 35(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Hamisi                     | 13                  | 92      | 0(0)    | 1(0)      | 1395(0) | 517               | 317                 | 0(0)    | 0(0) | 29(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kakamega Central (Lurambi) | 29                  | 97      | 0(0)    | 0(0)      | 4656(0) | 2076              | 1032                | 0(0)    | 0(0) | 54(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kakamega East (Shinyalu)   | 12                  | 100     | 0(0)    | 0(0)      | 1854(0) | 867               | 214                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kakamega North (Malava)    | 17                  | 100     | 0(0)    | 0(0)      | 1752(0) | 593               | 341                 | 0(0)    | 0(0) | 95(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Kakamega South (Ikolomani) | 10                  | 90      | 0(0)    | 1(0)      | 1458(0) | 110               | 77                  | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Lugari                     | 24                  | 100     | 0(0)    | 0(0)      | 3058(0) | 384               | 51                  | 0(0)    | 0(0) | 5(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mt Elgon                   | 16                  | 100     | 0(0)    | 5(0)      | 1307(0) | 619               | 409                 | 0(0)    | 0(0) | 40(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Mumias                     | 26                  | 92      | 0(0)    | 0(0)      | 3197(0) | 821               | 622                 | 0(0)    | 0(0) | 7(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | North Bungoma              | 11                  | 100     | 0(0)    | 0(0)      | 954(0)  | 630               | 438                 | 0(0)    | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |

| Province | District      | Reports<br>Expected | %<br>RR | Cholera | Dysentery | Malaria  | Malaria<br>Tested | Malaria<br>Positive | l Measles | ММ   | Typhoid | NNT  | AFP  | VHF  | Plague | Yellow<br>Fever |
|----------|---------------|---------------------|---------|---------|-----------|----------|-------------------|---------------------|-----------|------|---------|------|------|------|--------|-----------------|
|          | Samia         | 9                   | 100     | 0(0)    | 4(0)      | 568(0)   | 84                | 46                  | 0(0)      | 0(0) | 9(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | South Bungoma | 22                  | 100     | 0(0)    | 30(2)     | 4459(20) | 1283              | 586                 | 0(0)      | 0(0) | 100(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Teso          | 20                  | 85      | 0(0)    | 0(0)      | 3337(0)  | 307               | 115                 | 0(0)      | 0(0) | 0(0)    | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | Vihiga        | 21                  | 95      | 0(0)    | 0(0)      | 3055(0)  | 1708              | 889                 | 0(0)      | 0(0) | 136(0)  | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |
|          | West Bungoma  | 20                  | 80      | 0(0)    | 58(0)     | 1805(0)  | 1070              | 718                 | 0(0)      | 0(0) | 75(0)   | 0(0) | 0(0) | 0(0) | 0(0)   | 0(0)            |

|                          | Cholera       | Dysentery      | Malaria              | Malaria<br>Tested | Malaria<br>Positive | Measles    | ММ         | Typhoid       | NNT      | AFP       | VHF      | Plague   | Yellow<br>Fever |
|--------------------------|---------------|----------------|----------------------|-------------------|---------------------|------------|------------|---------------|----------|-----------|----------|----------|-----------------|
| Weeks summary            | 5<br>(0)      | 1,100<br>(4)   | 195,785<br>(48)      | 63,699            | 25,986              | 12<br>(0)  | 6<br>(0)   | 4,448<br>(0)  | 1<br>(1) | 0<br>(0)  | 0<br>(0) | 0<br>(0) | 0<br>(0)        |
| Years cumulative summary | 1,760<br>(27) | 32,335<br>(16) | 4,184,742<br>(1,004) | 863,854           | 343,355             | 375<br>(0) | 84<br>(15) | 95,507<br>(9) | 2<br>(1) | 21<br>(0) | 0<br>(0) | 0<br>(0) | 0 (0)           |

<sup>\*</sup> From week 10 of 2010 (Excludes week 1 up to week 9)

Key:

DNR: District did not report for this disease MM: Meningococcal Meningitis

AFP: Acute Flaccid Paralysis

VHF: Viral Hemorrhagic Fever

NNT: Neonatal Tetanus

NEP: North Eastern Province

HF: Health Facilities % RR: Health Facility reporting rate for this week

Timely reports: Reports received before Wednesday

Intra-district: Proportion of health facilities reporting in a district

Timeliness: Proportion of districts in a province/country reporting on time

Weighted Aggregate Score: Composite Surveillance Score (3 for Timeliness, 2 for Completeness and 1 for Complete reports)