



**LAPORAN PEMANTAUAN KEMARAU
UNTUK SEMENANJUNG MALAYSIA
(BERDASARKAN ANALISIS HIDROLOGI)**

APRIL 2014

**BAHAGIAN PENGURUSAN SUMBER AIR DAN HIDROLOGI
JABATAN PENGAIRAN DAN SALIRAN MALAYSIA**

ISI KANDUNGAN

| BIL. | PERKARA | M/SURAT |
|------|--|---------|
| 1. | RINGKASAN i. Jadual 1: Senarai 41 Stesen Kemarau di Semenanjung Malaysia ii. Rajah 1: Lokasi 41 Stesen Kemarau di Semenanjung Malaysia iii. Jadual 2: Taburan Hujan Bulan April 2014 iv. Rumusan Data | 1 - 4 |
| 2. | ANALISIS HUJAN i. Taburan Hujan Bulan Semasa ii. Taburan Hujan Kumulatif untuk 3 bulan iii. Peratusan Perbandingan April dan LTM iv. Peratusan perbandingan Hujan Kumulatif 3 bulan dengan LTM v. Analisis Berdasarkan Jumlah Hujan 3 Bulan (3 Senario) i. Senario 1 : Andaian Hujan Normal Untuk Tiga Bulan ii. Senario 2 : Andaian Penambahan (+20%) Kepada Purata Hujan Jangka Panjang iii. Senario 3 : Andaian Pengurangan (-20%) Kepada Purata Hujan Jangka Panjang | 5 - 22 |
| 3. | DATA PARAS SUNGAI DAN KADARALIR SEMASA | 23 |
| 4. | DATA PARAS AIR EMPANGAN SEMASA | 25 |

1. RINGKASAN

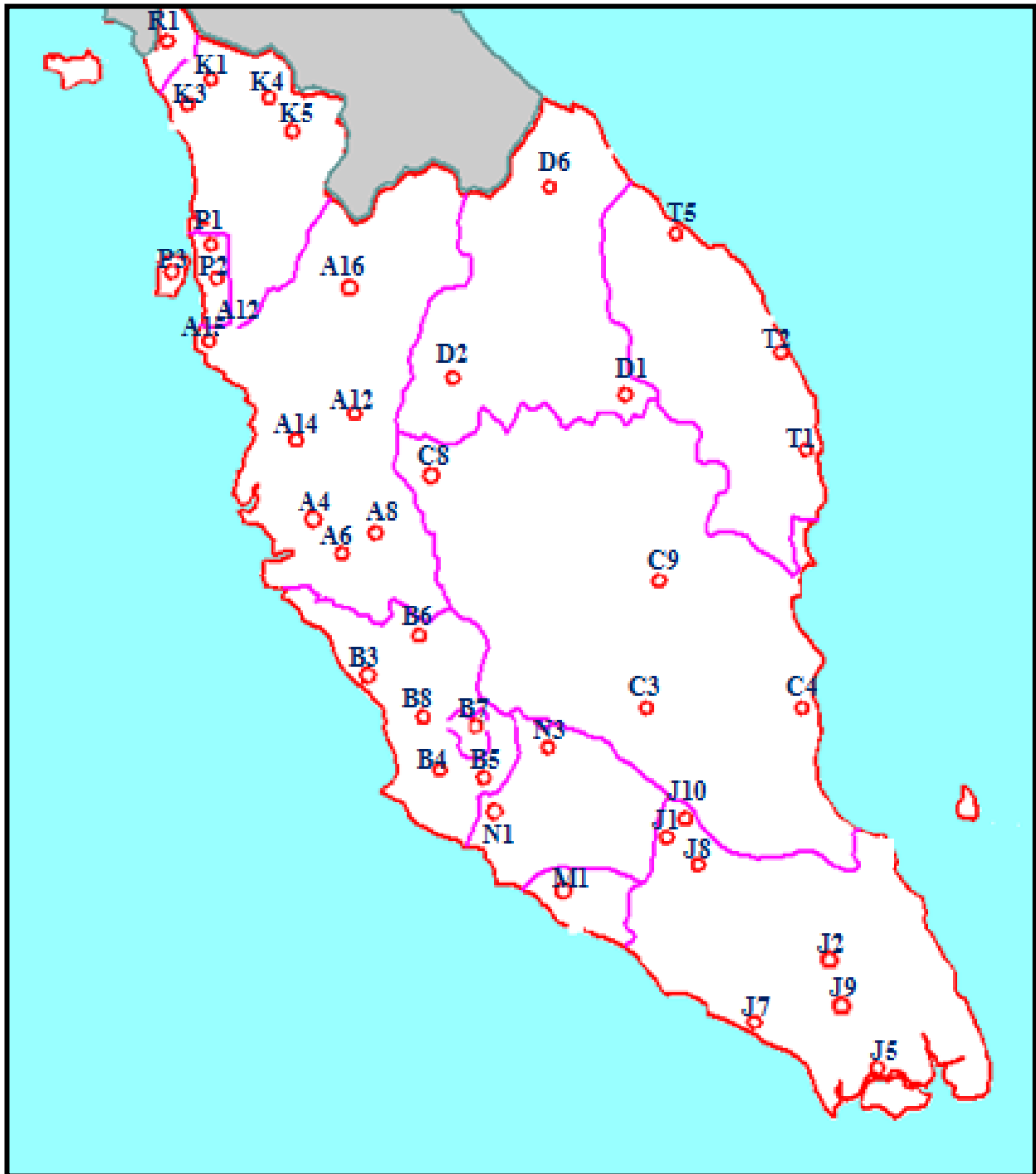
Sebanyak 41 stesen kemarau yang dipantau dalam analisis hujan untuk penyediaan Laporan Pemantauan Kemarau ini. Senarai stesen yang terlibat ditunjukkan dalam Jadual 1: Senarai 41 Stesen Kemarau di Semenanjung Malaysia seperti di bawah. Lokasi stesen yang terlibat adalah seperti dalam Rajah 1: 41 Stesen Kemarau di Semenanjung Malaysia (dibawah).

| Bil | Stn. Indeks | No. Stesen | Longitude | Latitude | Nama Stesen | Daerah | Negeri |
|-----|-------------|------------|-------------|------------|----------------------------------|----------------------|-------------|
| 1 | R1 | 6501005 | 100 10 55 | 06 30 20 | Abi Kg. Bahru | Kangar | Perlis |
| 2 | K1 | 6206035 | 100 36 45 | 06 15 15 | Kuala Nerang | Padang Terap | Kedah |
| 3 | K3 | 6103047 | 100 23 30 | 06 06 20 | Rumah Pam Sungai Raja | Kota Setar | Kedah |
| 4 | K4 | 6207032 | 100 46 20 | 06 14 25 | Ampang Pedu | Padang Terap | Kedah |
| 5 | K5 | 6108062 | 100 51 25 | 06 06 55 | Ampang Muda | Padang Terap | Kedah |
| 6 | P1 | 5505033 | 100 39 26 | 05 33 26 | Rumah Pam Pinang Tunggal | Seberang Perai Utara | Pulau |
| 7 | P2 | 5304045 | 100 28 32 | 05 22 32 | Pusat Kesihatan Bkt. Berapit | Seberang Perai | Pulau |
| 8 | P3 | 5302003 | 100 15 55 | 05 23 45 | Kolam Takongan Air Itam | Daerah Timur Laut | Pulau |
| 9 | A4 | 4109095 | 100 59 20 | 04 08 30 | Kg. Pulau Besar | Perak Tengah | Perak |
| 10 | A6 | 4011139 | 101 08 10 | 04 00 20 | Rumah JPS., Sg. Mengkuang | Hilir Perak | Perak |
| 11 | A8 | 4011144 | 101 10 20 | 04 02 50 | Rumah Kerajaan JPS., Chui Chak | Hilir Perak | Perak |
| 12 | A12 | 4511111 | 101 07 30 | 04 35 20 | Politeknik Ungku Omar di Ipoh | Kinta | Perak |
| 13 | A14 | 5006021 | 100 39 10 | 05 02 00 | Kolam Air Bkt. Merah | Kerian | Perak |
| 14 | A15 | 5003028 | 100 23 10 | 05 04 40 | Stn. Petak Ujian Tg. Piandang | Kerian | Perak |
| 15 | A16 | 5210069 | 101 03 30 | 05 17 55 | Stn. Pemeriksaan Hutan Lawin | Hulu Perak | Perak |
| 16 | B3 | 3411017 | 101 10 25 | 03 25 25 | Stor JPS Tg.Karang | Kuala Selangor | Selangor |
| 17 | B4 | 2917001 | 101 37 05 | 02 59 30 | RTM Kajang | Hulu Langat | Selangor |
| 18 | B5 | 2818110 | 101 52 13 | 02 53 55 | SMK Tasik Kesuma | Hulu Langat | Selangor |
| 19 | B6 | 3516022 | 101 27 05 | 03 34 35 | Loji Air Kuala Kubu Bahru | Hulu Selangor | Selangor |
| 20 | B7 | 3117070 | 101 45 00 | 03 09 20 | Pusat Penyelidikan di JPS | Wilayah Persekutuan | Selangor |
| 21 | B8 | 3010001 | 101 32 04 | 03 09 29 | Tmn Ehsan Kg. Melayu | Petaling | Selangor |
| 22 | N1 | 2719001 | 101 57 18 | 02 44 13.2 | Setor JPS Sikamat Seremban | Seremban | N. Sembilan |
| 23 | N3 | 3023098 | 102 21 57.3 | 03 05 2.9 | Sg. Lui Halt | Kuala Pilah | N. Sembilan |
| 24 | M1 | 2321006 | 102 11 35 | 02 21 50 | Ldg. Lendu | Alor Gajah | Melaka |
| 25 | J1 | 2526001 | 102 38 55 | 02 34 50.2 | Ldg. Sungai Gemas | Segamat | Johor |
| 26 | J2 | 2033002 | 103 19 30 | 02 01 10 | Stn. Telemetri Bandar Kluang | Kluang | Johor |
| 27 | J5 | 1437116 | 103 45 10 | 01 28 15 | Stor JPS Johor Bahru | Johor Bahru | Johor |
| 28 | J7 | 1829001 | 102 58 55 | 01 52 00 | Sek. Men. Munshi Sulaiman | Batu Pahat | Johor |
| 29 | J8 | 2528002 | 102 49 05 | 02 30 30 | Stn. Telemetri di Bandar Segamat | Segamat | Johor |
| 30 | J9 | 2536168 | 103 40 10 | 02 35 10 | Empangan Labong, Endau | Mersing | Johor |
| 31 | J10 | 2527004 | 102 43 10 | 02 35 10 | Ldg. Paya Lang, Segamat | Segamat | Johor |
| 32 | C3 | 3424081 | 102 25 35 | 03 26 20 | JPS Temerloh | Temerloh | Pahang |
| 33 | C4 | 3533102 | 103 21 25 | 03 33 40 | Rumah Pam Pahang Tua di Pekan | Pekan | Pahang |
| 34 | C8 | 4414036 | 101 25 30 | 04 27 05 | Ldg. Boh (Kawasan Kilang) | Cameron Highlands | Pahang |
| 35 | C9 | 3930012 | 103 02 10 | 03 55 00 | Sg. Lembang P.C.C.L Mill | Kuantan | Pahang |
| 36 | T1 | 4234109 | 103 25 20 | 04 13 55 | JPS Kemaman | Kemaman | Terengganu |
| 37 | T2 | 4734079 | 103 25 10 | 04 45 45 | Sek. Men. Sultan Omar di Dungun | Dungun | Terengganu |
| 38 | T5 | 5331048 | 103 08 00 | 05 19 05 | Setor JPS Kuala Terengganu | Kuala Terengganu | Terengganu |
| 39 | D1 | 4726001 | 102 39 20 | 04 45 25 | Gunung Gagau | Gua Musang | Kelantan |
| 40 | D2 | 4819027 | 101 58 10 | 04 52 45 | Gua Musang | Gua Musang | Kelantan |
| 41 | D6 | 5921009 | 102 08 15 | 05 58 10 | Ibu Bekalan To' Uban | Pasir Mas | Kelantan |

Jadual 1: Senarai 41 Stesen Kemarau di Semenanjung Malaysia

NOTA :- *Stesen K3(6103047) ditukar nama dari 'Stor JPS Alor Star' ke 'Rumah Pam Sungai Raja'

Rajah 1: Lokasi 41 Stesen Kemarau di Semenanjung Malaysia.



Jadual 2: Purata Hujan Bulan April 2014

| INDEKS STESEN | JUMLAH HUJAN (MM) | | | | |
|------------------|-------------------|----------|-----------|------------|--------------|
| | Minggu 1 | Minggu 2 | Minggu 3 | Minggu 4 | (mm) |
| | 1hb-7hb | 8hb-14hb | 15hb-21hb | 22hb- 31hb | |
| R1 | 2.0 | 42.0 | 84.0 | 99.0 | 227.0 |
| K1 | 107.5 | 8.5 | 89.5 | 59.5 | 265.0 |
| K3 | 9.5 | 50.0 | 51.5 | 37.0 | 148.0 |
| K4 | 157.0 | 49.5 | 143.5 | 57.0 | 407.0 |
| K5 | 91.0 | 69.0 | 137.0 | 126.7 | 423.7 |
| P1 | 50.0 | 30.5 | 75.0 | 69.0 | 224.5 |
| P2 | 90.0 | 2.0 | 34.5 | 58.5 | 185.0 |
| P3 | 92.5 | 5.5 | 75.0 | 50.5 | 223.5 |
| A4 | 59.0 | 1.0 | 41.0 | 57.5 | 158.5 |
| A6 | 32.0 | 64.5 | 43.0 | 64.0 | 203.5 |
| A8 | 125.5 | 92.0 | 141.5 | 114.0 | 473.0 |
| A12 | 62.0 | 132.0 | 69.5 | 19.0 | 282.5 |
| A14 | 154.5 | 66.0 | 56.0 | 137.5 | 414.0 |
| A15 | 69.5 | 36.0 | 41.0 | 90.5 | 237.0 |
| A16 | 60.5 | 145.5 | 204.0 | 117.5 | 527.5 |
| B3 | 66.5 | 9.5 | 32.5 | 64.5 | 173.0 |
| B4 | 61.5 | 104.5 | 112.5 | 45.5 | 324.0 |
| B5 | 60.5 | 119.0 | 56.0 | 85.0 | 320.5 |
| B6 | 51.0 | 21.0 | 77.5 | 90.5 | 240.0 |
| B7 | 115.5 | 117.0 | 151.0 | 117.5 | 501.0 |
| B8 | 46.5 | 50.0 | 65.5 | 40.0 | 202.0 |
| N1 | 52.0 | 137.0 | 75.0 | 62.0 | 326.0 |
| N3 | 40.5 | 21.0 | 17.0 | 25.0 | 103.5 |
| M1 | 85.0 | 78.0 | 62.5 | 31.5 | 257.0 |
| J1 | 38.0 | 6.0 | 55.0 | 80.0 | 179.0 |
| J2 | 0.0 | 105.0 | 27.0 | 173.0 | 305.0 |
| J5 | 6.5 | 200.0 | 98.0 | 159.5 | 464.0 |
| J7 | 54.0 | 38.0 | 74.0 | 66.5 | 232.5 |
| J8 | 125.0 | 60.5 | 40.5 | 28.0 | 254.0 |
| J9 | 5.5 | 14.0 | 16.0 | 19.5 | 55.0 |
| J10 | 28.0 | 62.0 | 31.0 | 22.0 | 143.0 |
| C3 | 54.0 | 6.0 | 32.0 | 101.0 | 193.0 |
| C4 | 0.0 | 3.0 | 0.0 | 92.0 | 95.0 |
| C8 | 9.0 | 98.0 | 56.0 | 66.0 | 229.0 |
| C9 | 10.0 | 42.0 | 54.0 | 24.0 | 130.0 |
| D1 | 19.0 | 0.0 | 14.0 | 26.0 | 59.0 |
| D2 | 52.0 | 0.0 | 85.0 | 32.0 | 169.0 |
| D6 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 |
| T1 | 2.0 | 0.0 | 0.0 | 5.0 | 7.0 |
| T2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| T5 | 0.0 | 0.0 | 0.0 | 26.0 | 26.0 |
| | | | | | 229.0 |

Rumusan Data

Secara ringkasannya, purata keseluruhan jumlah hujan pada bulan **April 2014** adalah sebanyak **229.0 mm** sebagaimana Jadual 2. Jumlah purata hujan April 2014 adalah didapati telah bertambah iaitu sebanyak (**116.2 mm**) iaitu (**50.7 %**) berbanding dengan jumlah purata hujan bulan Mac 2014 seperti Jadual 3 di bawah. Manakala kumulatif 3 bulan sebenar dengan kumulatif 3 bulan (*Long Term Mean rainfall, LTM*) ada pengurangan hujan sebanyak (**-153.3 mm**) iaitu sebanyak (**-29.8 %**) seperti Jadual 4 dan rajah 3 di bawah.

Jadual 3: Peratus Perbezaan Purata Hujan Bulanan Semasa dengan Bulan sebelum

| PURATA HUJAN (MM) | | | |
|-------------------|-------|-----------|-------------|
| MAC | APRIL | PERBEZAAN | % PERBEZAAN |
| 112.8 | 229.0 | 116.2 | 50.7 |

Jadual 4: Peratus Perbezaan Kumulatif 3 bulan sebenar (Bulan Semasa + 2 Bulan kebelakang) dengan Kumulatif 3 bulan (*Long Term Mean rainfall, LTM*)

| PURATA HUJAN (MM) | | | |
|---------------------------|-----------------------|-----------|-------------|
| Kumulatif 3 bulan SEBENAR | Kumulatif 3 bulan LTM | PERBEZAAN | % PERBEZAAN |
| 358.5 | 511.8 | -153.3 | -29.8 |

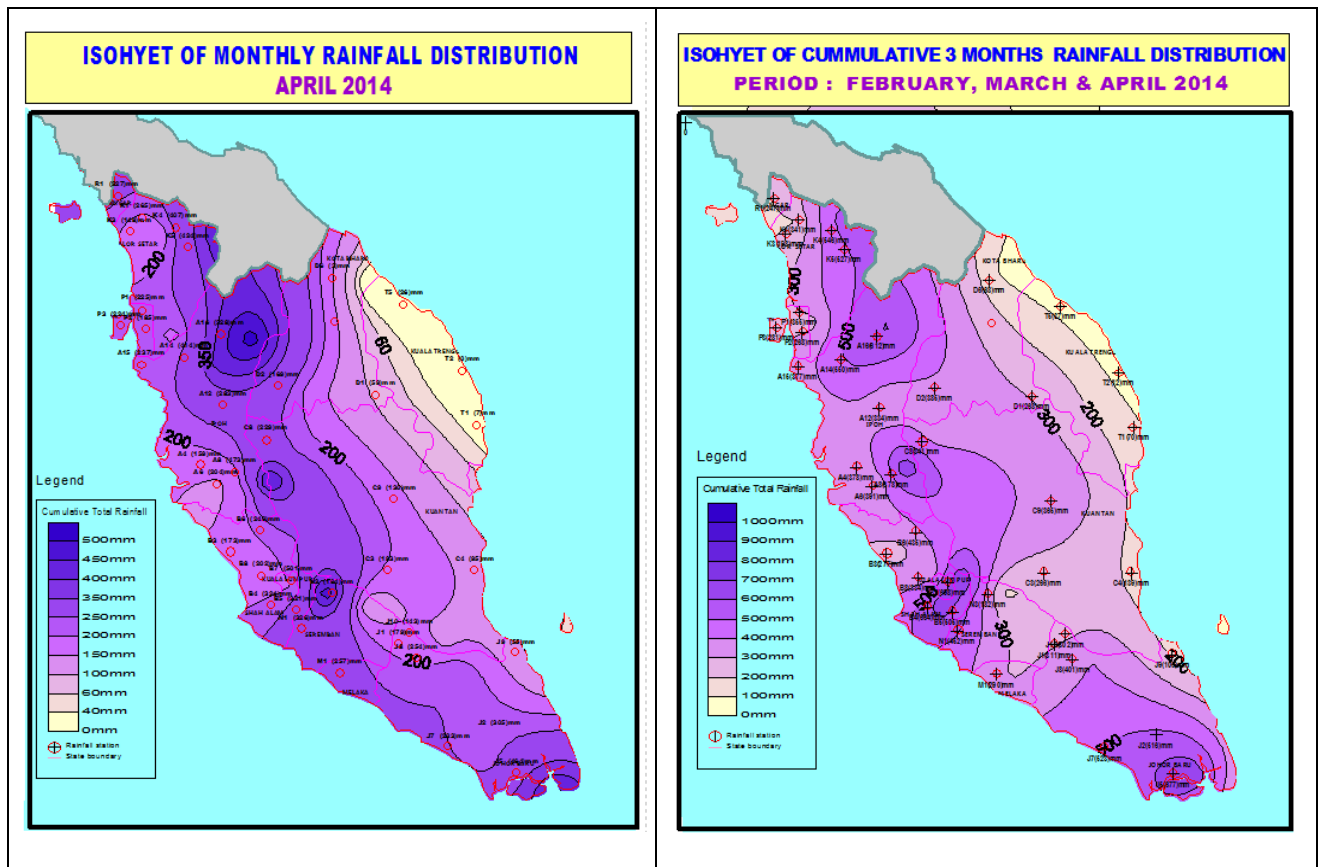
2. ANALISIS HUJAN (Berpandukan Data dan Peta Isohyet)

i. Taburan Hujan Bulan Semasa

Peta Isohyet ini adalah bertujuan untuk menggambarkan taburan keadaan hujan semasa bagi bulan **April 2014** seperti di rajah 2 (di bawah) . Taburan hujan bagi Semenanjung Malaysia ialah purata **229.0 mm**. Penambahan sebanyak (**116.2 mm**) iaitu (**50.7 %**) berbanding dengan jumlah purata hujan bulan Mac 2014 (sila rujuk Jadual 3).

ii. Taburan Hujan Kumulatif untuk 3 bulan

Peta Isohyet ini adalah bertujuan untuk menggambarkan taburan hujan kumulatif untuk 3 bulan sebenar (**358.5 mm**) iaitu (Bulan Semasa + 2 Bulan kebelakang)seperti di rajah 3 (di bawah) jika dibandingkan dengan kumulatif 3 bulan LTM (**511.8 mm**) ada pengurangan hujan sebanyak (**-153.3 mm**) iaitu (**-29.8 %**). (Sila rujuk Jadual 4)



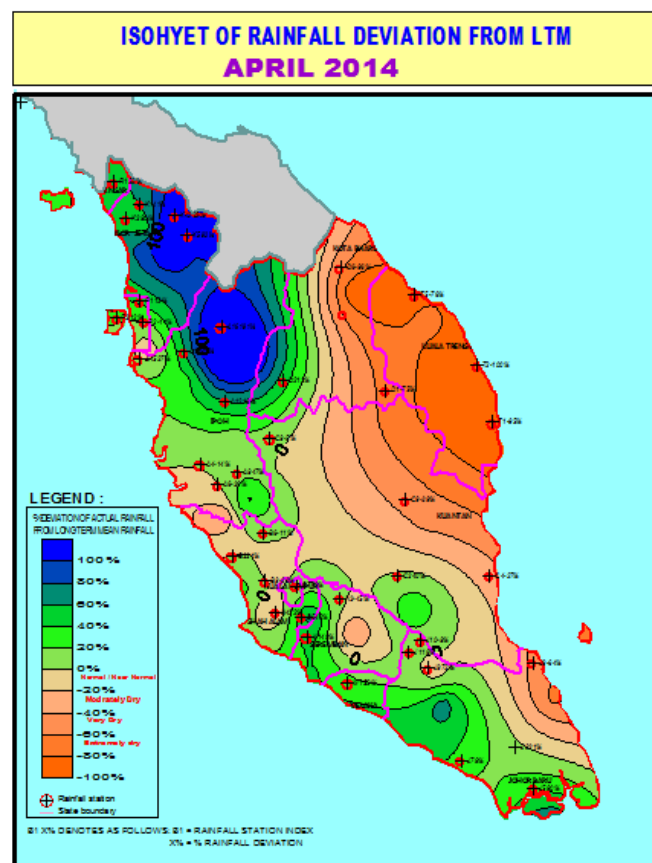
Rajah 2: Taburan Hujan Bulan April 2014

Rajah 3: Taburan Hujan Kumulatif 3 Bulan

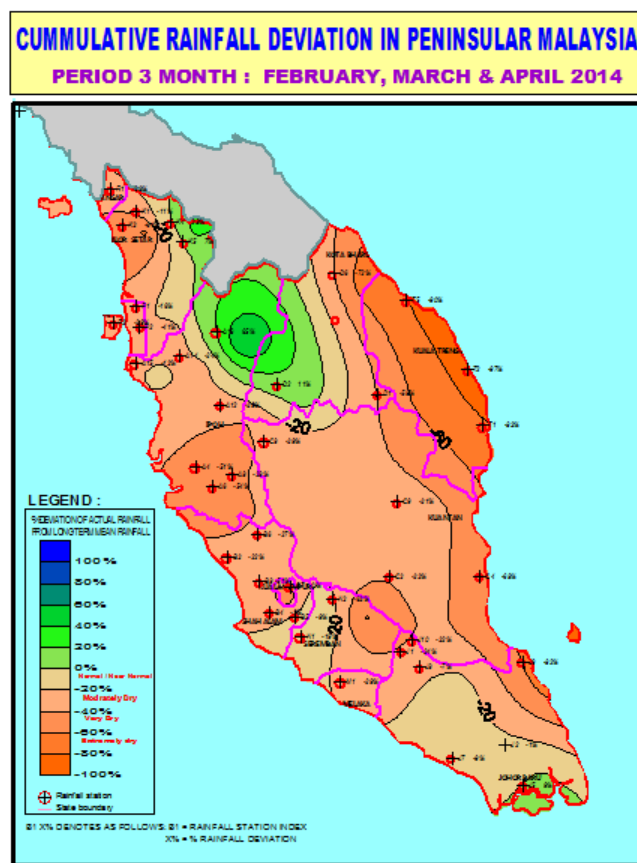
Jadual 5: Peratusan Perbandingan Hujan April 2014 dan Hujan Jangka Panjang (LTM).

| NO. | INDEKS STESEN | HUJAN SEMASA | HUJAN JANGKA PANJANG (LTM) | PERBEZAAN (MM) | % PERBEZAAN |
|-----|---------------|--------------|----------------------------|----------------|--------------|
| 1 | R1 | 227.0 | 149.6 | 77.38 | 51.71 |
| 2 | K1 | 265.0 | 187.5 | 77.48 | 41.32 |
| 3 | K3 | 148.0 | 82.0 | 66.00 | 80.49 |
| 4 | K4 | 407.0 | 125.4 | 281.60 | 224.56 |
| 5 | K5 | 423.7 | 220.6 | 203.05 | 92.03 |
| 6 | P1 | 224.5 | 199.6 | 24.90 | 12.47 |
| 7 | P2 | 185.0 | 215.5 | -30.45 | -14.13 |
| 8 | P3 | 223.5 | 199.6 | 23.87 | 11.96 |
| 9 | A4 | 158.5 | 184.5 | -26.00 | -14.09 |
| 10 | A6 | 203.5 | 319.1 | -115.61 | -36.23 |
| 11 | A8 | 473.0 | 321.5 | 151.50 | 47.12 |
| 12 | A12 | 282.5 | 240.2 | 42.34 | 17.63 |
| 13 | A14 | 414.0 | 293.2 | 120.77 | 41.19 |
| 14 | A15 | 237.0 | 186.6 | 50.36 | 26.98 |
| 15 | A16 | 527.5 | 181.1 | 346.42 | 191.31 |
| 16 | B3 | 173.0 | 131.7 | 41.34 | 31.40 |
| 17 | B4 | 324.0 | 264.9 | 59.12 | 22.32 |
| 18 | B5 | 320.5 | 225.8 | 94.70 | 41.94 |
| 19 | B6 | 240.0 | 269.5 | -29.52 | -10.95 |
| 20 | B7 | 501.0 | 290.6 | 210.37 | 72.38 |
| 21 | B8 | 202.0 | 262.3 | -60.26 | -22.98 |
| 22 | N1 | 326.0 | 232.1 | 93.90 | 40.46 |
| 23 | N3 | 103.5 | 187.3 | -83.82 | -44.75 |
| 24 | M1 | 257.0 | 169.6 | 87.44 | 51.57 |
| 25 | J1 | 179.0 | 154.8 | 24.18 | 15.62 |
| 26 | J2 | 305.0 | 232.4 | 72.62 | 31.25 |
| 27 | J5 | 464.0 | 243.7 | 220.31 | 90.41 |
| 28 | J7 | 232.5 | 212.7 | 19.77 | 9.29 |
| 29 | J8 | 254.0 | 147.7 | 106.29 | 71.96 |
| 30 | J9 | 55.0 | 154.6 | -99.64 | -64.43 |
| 31 | J10 | 143.0 | 155.5 | -12.53 | -8.06 |
| 32 | C3 | 193.0 | 137.9 | 55.12 | 39.97 |
| 33 | C4 | 95.0 | 131.0 | -36.00 | -27.48 |
| 34 | C8 | 229.0 | 240.1 | -11.12 | -4.63 |
| 35 | C9 | 130.0 | 212.0 | -82.00 | -38.68 |
| 36 | D1 | 59.0 | 232.3 | -173.31 | -74.60 |
| 37 | D2 | 169.0 | 151.4 | 17.64 | 11.66 |
| 38 | D6 | 3.0 | 75.3 | -72.32 | -96.02 |
| 39 | T1 | 7.0 | 131.4 | -124.42 | -94.67 |
| 40 | T2 | 0.0 | 134.6 | -134.58 | -100.00 |
| 41 | T5 | 26.0 | 107.4 | -81.42 | -75.80 |
| | PURATA | 229.0 | 195.0 | 34.04 | 17.45 |

**Rajah 4: Pelan Isohyet
(Peratusan Perbandingan Hujan Mac dan LTM)**



**Rajah 5: Pelan Isohyet
(Peratusan perbandingan Hujan Kumulatif 3 bulan dengan LTM)**



iii. Peratusan Perbandingan Purata Hujan Mac dengan LTM

Analisis berdasarkan jumlah hujan satu bulan, iaitu purata hujan bulan **April 2014** berbanding dengan purata hujan jangka panjang **bulan April (Long Term Mean rainfall, LTM)** telah menunjukkan bahawa terdapat penambahan sebanyak (**34.04 mm**), iaitu (**17.45 %**). Daripada 41 stesen kemarau yang dipantau. **Sembilan (9)** stesen merekodkan defisit hujan melebihi **-35%**. Sila rujuk Jadual 5 dan Peta Isohyet (Rajah 4) di atas bagi analisis ini.

iv. Peratusan perbandingan Hujan Kumulatif 3 bulan dengan LTM

Analisis berdasarkan jumlah hujan kumulatif tiga bulan, iaitu purata hujan bulan Januari, Februari dan April 2014 berbanding dengan hujan jangka panjang 3 bulan kumulatif (*Long Term Mean rainfall, LTM*) telah menunjukkan **kawasan kering** adalah di **Kedah (Kota Setar)**, **Pulau Pinang (Seberang Perai)**, **Perak (Perak Tengah, Hilir Perak & Kinta)**, **Selangor (Petaling)**, **Negeri Sembilan (Kuala Pilah)**, **Johor (Mersing)**, **Pahang (Pekan & Cameron Highlands)**, **Kelantan (Gua Musang & Pasir Mas)** dan **Terengganu** seperti Peta Isohyet (rajah 5) di atas.

v. Analisis Berdasarkan Jumlah Hujan 3 Bulan (*Moving 3 Months Analysis*)

Analisis Hujan 3 Bulan dijalankan bertujuan untuk meramalkan kebarangkalian berlaku kemarau di Semenanjung Malaysia dengan membandingkan keadaan hujan semasa dengan purata hujan jangka panjang bagi 3 bulan bergerak.

Bagi bulan Mac 2014, Analisis Hujan 3 Bulan dijalankan dengan mengambilkira data bagi bulan-bulan berikut:

- i. Analisis 1 : Februari, Mac dan April 2014
- ii. Analisis 2 : Mac, April dan Mei 2014
- iii. Analisis 3 : April, Mei dan Jun 2014

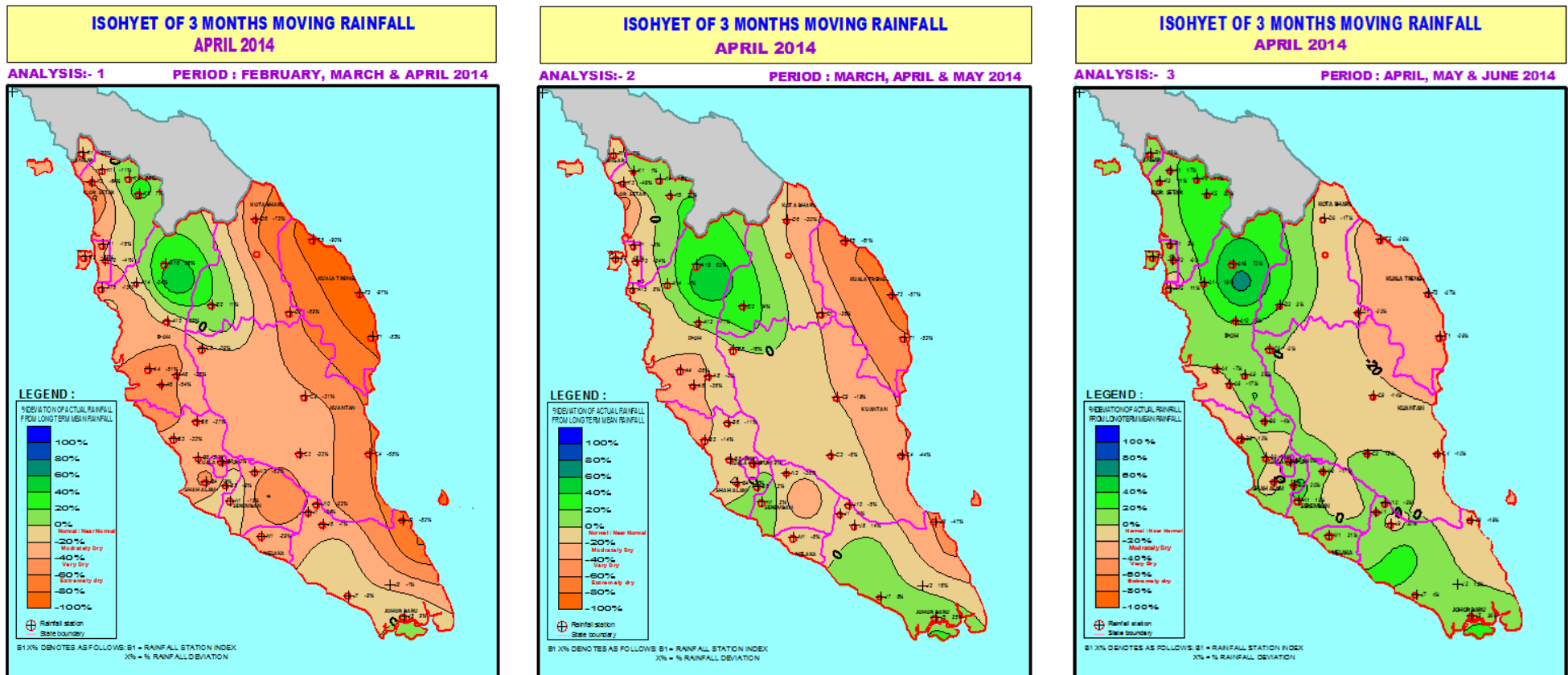
Bagi Analisis 1, data hujan semasa bagi ketiga-tiga bulan terlibat adalah digunapakai. Bagi Analisis 2 dan 3 pula, oleh kerana pada bulan April 2014, data hujan semasa bagi bulan Mei dan Jun 2014 masih belum dapat diperolehi, maka data purata hujan jangka panjang digunakan dalam analisis-analisis ini.

Setiap analisis seperti di atas terbahagi kepada tiga senario seperti berikut:

- iv. Senario 1 : Andaian Hujan Normal Untuk Tiga Bulan
- v. Senario 2 : Andaian Penambahan (+20%) Kepada Purata Hujan Jangka Panjang
- vi. Senario 3 : Andaian Pengurangan (-20%) Kepada Purata Hujan Jangka Panjang

Keputusan analisis hujan 3 bulan untuk bulan April 2014 bagi ketiga-tiga senario adalah sepertimana ditunjukkan dalam peta isohyet analisis hujan 3 bulan dari Rajah 6 - Rajah 8 dan jadual pengiraan analisis ketiga-tiga senario ini ditunjukkan dalam Jadual 6 - Jadual 14.

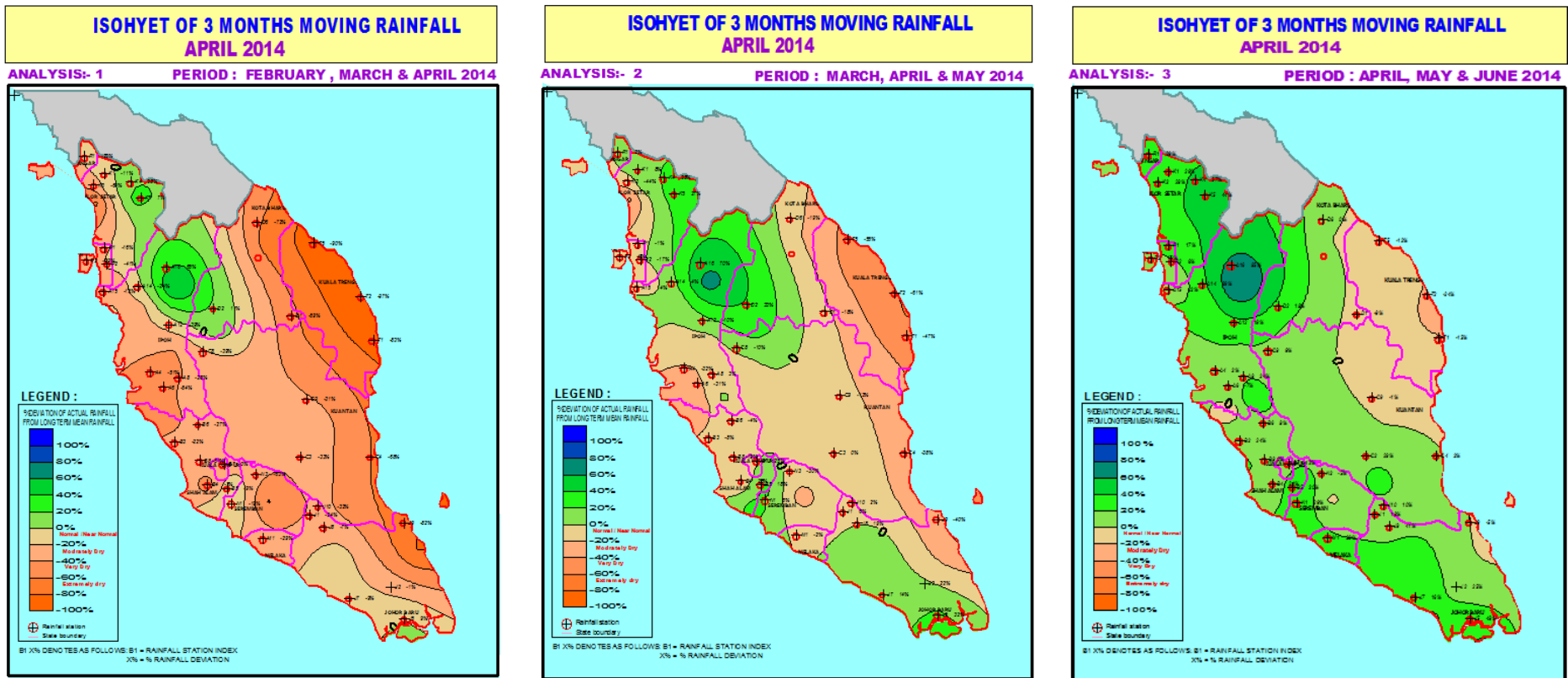
Rajah 6 : Peta Isohyet Analisis Hujan 3 Bulan : Senario 1-Andaian Hujan Normal untuk 3 bulan
 Analisis Berdasarkan Jumlah Hujan 3 Bulan (Februari, Mac, April, Mei LT dan Jun LT 2014)



Berdasarkan peta Isohyet bagi Senario 1, keputusan seperti di bawah adalah dirumuskan:

- i. Analisis 1 (bulan Februari, Mac dan April) menunjukkan keadaan kering berlaku di stesen berindeks K3, P2, A4, A6, A12, B8, N3, J9, C4, C8, D1, D6, T1, T2 dan T5 pada bulan April 2014.
- ii. Analisis 2 (bulan Mac, April dan Mei LT) meramalkan kebarangkalian berlaku keadaan kering di stesen berindeks K3, A4, A6, N3, J9, C4, T1, T2 dan T5 pada bulan Mei 2014.
- iii. Analisis 3 (bulan April, Mei LT dan Jun LT) meramalkan kebarangkalian berlaku keadaan kering di stesen berindeks T2 pada bulan Jun 2014.

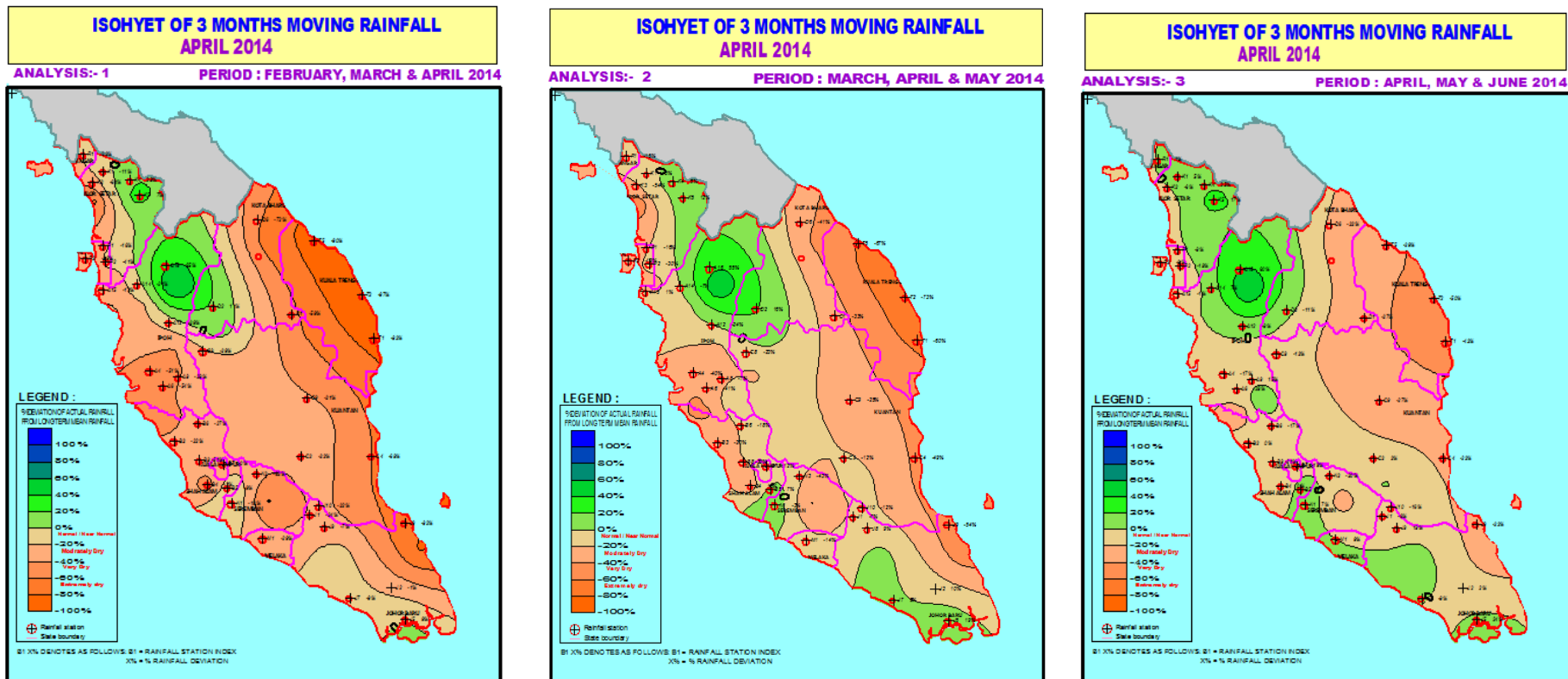
Rajah 7 : Peta Isohyet Analisis Hujan 3 Bulan : Senario 2– Andaian Penambahan Hujan 20% Kepada LTM Analisis Berdasarkan Jumlah Hujan 3 Bulan (Februari, Mac, April, Mei LT dan Jun LT 2014)



Berdasarkan peta Isohyet bagi Senario 2, keputusan seperti di bawah adalah dirumuskan:

- ii. Analisis 1 (bulan Februari, Mac dan April) menunjukkan keadaan kering berlaku di stesen berindeks K3, P2, A4, A6, A12, B8, N3, J9, C4, C8, D1, D6, T1, T2 dan T5 pada bulan April 2014.
- iii. Analisis 2 (bulan Mac, April dan Mei LT) meramalkan kebarangkalian berlaku keadaan kering di stesen berindeks K3, J9, C4, T1, T2 dan T5 pada bulan Mei 2014.
- iv. Analisis 3 (bulan April, Mei LT dan Jun LT) meramalkan kebarangkalian tidak ada berlaku keadaan kering di Semenanjung Malaysia pada bulan Jun 2014.

**Rajah 8: Peta Isohyet Analisis Hujan 3 Bulan : Senario 3- Andaian Pengurangan Hujan 20% Kepada LTM
 Analisis Berdasarkan Jumlah Hujan 3 Bulan (Februari, Mac, April, Mei LT dan Jun LT 2014)**



Berdasarkan peta Isohyet bagi Senario 3, keputusan seperti di bawah adalah dirumuskan:

- i. Analisis 1 (bulan Februari, Mac dan April) menunjukkan keadaan kering berlaku di stesen berindeks K3, P2, A4, A6, A12, B8, N3, J9, C4, C8, D1, D6, T1, T2 dan T5 pada bulan April 2014.
- ii. Analisis 2 (bulan Mac, April dan Mei LT) meramalkan kebarangkalian berlaku keadaan kering di stesen berindeks K3, A4, A6, N3, J9, C4, D6, T1, T2 dan T5 pada bulan Mei 2014.
- iii. Analisis 3 (bulan April, Mei LT dan Jun LT) meramalkan kebarangkalian berlaku keadaan kering di stesen berindeks D1, T1, T2 dan T5 pada bulan Jun 2014.

Jadual 6 : Hujan 3 Bulan Februari, Mac dan April 2014 : Senario 1 (Analisis 1)

| No | Station ID | Indeks Stesen | Feb 2014 | Mac 2014 | Apr 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|----------|----------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 0.0 | 20.0 | 227.0 | 247.00 | 319.6 | -72.6 | -23 |
| 2 | 6206035 | K1 | 0.0 | 76.0 | 265.0 | 341.00 | 381.9 | -40.9 | -11 |
| 3 | 6103047 | K3 | 0.0 | 50.0 | 148.0 | 198.00 | 553.1 | -355.1 | -64 |
| 4 | 6207032 | K4 | 0.0 | 139.0 | 407.0 | 546.00 | 425.1 | 120.9 | 28 |
| 5 | 6108062 | K5 | 0.0 | 103.0 | 423.7 | 526.70 | 493.4 | 33.3 | 7 |
| 6 | 5505033 | P1 | 63.0 | 67.5 | 224.5 | 355.00 | 421.0 | -66.0 | -16 |
| 7 | 5304045 | P2 | 30.0 | 52.5 | 185.0 | 267.50 | 457.1 | -189.6 | -41 |
| 8 | 5302003 | P3 | 19.5 | 37.5 | 223.5 | 280.50 | 396.3 | -115.8 | -29 |
| 9 | 4109095 | A4 | 38.0 | 181.0 | 158.5 | 377.50 | 771.5 | -394.0 | -51 |
| 10 | 4011139 | A6 | 72.0 | 115.0 | 203.5 | 390.50 | 858.2 | -467.7 | -54 |
| 11 | 4011144 | A8 | 46.5 | 158.5 | 473.0 | 678.00 | 944.0 | -266.0 | -28 |
| 12 | 4511111 | A12 | 17.0 | 34.0 | 282.5 | 333.50 | 550.3 | -216.8 | -39 |
| 13 | 5006021 | A14 | 14.5 | 121.5 | 414.0 | 550.00 | 726.9 | -176.9 | -24 |
| 14 | 5003028 | A15 | 3.0 | 136.5 | 237.0 | 376.50 | 432.7 | -56.2 | -13 |
| 15 | 5210069 | A16 | 12.5 | 72.0 | 527.5 | 612.00 | 370.3 | 241.7 | 65 |
| 16 | 3411017 | B3 | 73.0 | 30.5 | 173.0 | 276.50 | 355.4 | -78.9 | -22 |
| 17 | 2917001 | B4 | 23.0 | 316.5 | 324.0 | 663.50 | 676.4 | -12.9 | -2 |
| 18 | 2818110 | B5 | 2.0 | 182.5 | 320.5 | 505.00 | 553.2 | -48.2 | -9 |
| 19 | 3516022 | B6 | 46.5 | 148.0 | 240.0 | 434.50 | 598.4 | -163.9 | -27 |
| 20 | 3117070 | B7 | 39.5 | 157.0 | 501.0 | 697.50 | 694.7 | 2.8 | 0 |
| 21 | 3115180 | B8 | 0.0 | 131.5 | 202.0 | 333.50 | 677.7 | -344.2 | -51 |
| 22 | 2719001 | N1 | 0.0 | 126.0 | 326.0 | 452.00 | 560.7 | -108.7 | -19 |
| 23 | 3023098 | N3 | 0.0 | 78.0 | 103.5 | 181.50 | 495.7 | -314.2 | -63 |
| 24 | 2321006 | M1 | 0.5 | 32.0 | 257.0 | 289.50 | 406.7 | -117.2 | -29 |
| 25 | 2526001 | J1 | 0.0 | 132.0 | 179.0 | 311.00 | 408.1 | -97.1 | -24 |
| 26 | 2033001 | J2 | 0.0 | 211.0 | 305.0 | 516.00 | 522.0 | -6.0 | -1 |
| 27 | 1437116 | J5 | 16.5 | 196.0 | 464.0 | 676.50 | 620.4 | 56.1 | 9 |
| 28 | 1829001 | J7 | 62.5 | 228.0 | 232.5 | 523.00 | 577.5 | -54.5 | -9 |
| 29 | 2528002 | J8 | 0.0 | 147.0 | 254.0 | 401.00 | 432.7 | -31.7 | -7 |
| 30 | 2536168 | J9 | 0.0 | 50.5 | 55.0 | 105.50 | 584.5 | -479.0 | -82 |
| 31 | 2527004 | J10 | 0.0 | 159.0 | 143.0 | 302.00 | 444.1 | -142.1 | -32 |
| 32 | 3424081 | C3 | 0.0 | 73.0 | 193.0 | 266.00 | 394.6 | -128.6 | -33 |
| 33 | 3533102 | C4 | 8.0 | 36.0 | 95.0 | 139.00 | 435.1 | -296.1 | -68 |
| 34 | 4414036 | C8 | 6.0 | 106.0 | 229.0 | 341.00 | 559.6 | -218.6 | -39 |
| 35 | 3930012 | C9 | 68.0 | 167.0 | 130.0 | 365.00 | 525.3 | -160.3 | -31 |
| 36 | 4726001 | D1 | 0.0 | 209.0 | 59.0 | 268.00 | 647.6 | -379.6 | -59 |
| 37 | 4819027 | D2 | 3.0 | 213.0 | 169.0 | 385.00 | 345.8 | 39.2 | 11 |
| 38 | 5921009 | D6 | 11.0 | 53.5 | 3.0 | 67.50 | 240.8 | -173.3 | -72 |
| 39 | 4234109 | T1 | 8.0 | 55.0 | 7.0 | 70.00 | 410.0 | -340.0 | -83 |
| 40 | 4734079 | T2 | 0.0 | 12.0 | 0.0 | 12.00 | 359.2 | -347.2 | -97 |
| 41 | 5331048 | T5 | 0.0 | 11.0 | 26.0 | 37.00 | 357.8 | -320.8 | -90 |
| | MEAN | | 16.7 | 112.8 | 229.0 | 358.5 | 511.8 | -153.3 | -29.8 |

Jadual 7 : Hujan 3 Bulan Mac, April dan Mei LT 2014 : Senario 1 (Analisis 2)

| N o | Station ID | Indeks Stesen | Mac 2014 | Apr 2014 | Mei LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|-----|------------|---------------|----------|----------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 20.0 | 227.0 | 192.8 | 439.80 | 470.5 | -30.7 | -7 |
| 2 | 6206035 | K1 | 76.0 | 265.0 | 168.0 | 508.98 | 502.4 | 6.6 | 1 |
| 3 | 6103047 | K3 | 50.0 | 148.0 | 174.0 | 372.00 | 726.5 | -354.5 | -49 |
| 4 | 6207032 | K4 | 139.0 | 407.0 | 386.5 | 932.50 | 807.9 | 124.6 | 15 |
| 5 | 6108062 | K5 | 103.0 | 423.7 | 235.3 | 761.96 | 637.2 | 124.8 | 20 |
| 6 | 5505033 | P1 | 67.5 | 224.5 | 192.8 | 484.79 | 528.2 | -43.4 | -8 |
| 7 | 5304045 | P2 | 52.5 | 185.0 | 177.0 | 414.49 | 542.0 | -127.5 | -24 |
| 8 | 5302003 | P3 | 37.5 | 223.5 | 206.3 | 467.25 | 527.6 | -60.4 | -11 |
| 9 | 4109095 | A4 | 181.0 | 158.5 | 155.0 | 494.50 | 778.5 | -284.0 | -36 |
| 10 | 4011139 | A6 | 115.0 | 203.5 | 214.5 | 533.03 | 834.0 | -301.0 | -36 |
| 11 | 4011144 | A8 | 158.5 | 473.0 | 227.0 | 858.50 | 878.0 | -19.5 | -2 |
| 12 | 4511111 | A12 | 34.0 | 282.5 | 231.8 | 548.34 | 662.7 | -114.3 | -17 |
| 13 | 5006021 | A14 | 121.5 | 414.0 | 228.6 | 764.06 | 775.3 | -11.2 | -1 |
| 14 | 5003028 | A15 | 136.5 | 237.0 | 158.7 | 532.17 | 494.8 | 37.4 | 8 |
| 15 | 5210069 | A16 | 72.0 | 527.5 | 182.3 | 781.78 | 480.5 | 301.2 | 63 |
| 16 | 3411017 | B3 | 30.5 | 173.0 | 118.1 | 321.58 | 374.8 | -53.2 | -14 |
| 17 | 2917001 | B4 | 316.5 | 324.0 | 160.6 | 801.09 | 665.0 | 136.1 | 20 |
| 18 | 2818110 | B5 | 182.5 | 320.5 | 161.3 | 664.30 | 590.7 | 73.6 | 12 |
| 19 | 3516022 | B6 | 148.0 | 240.0 | 248.1 | 636.07 | 712.9 | -76.8 | -11 |
| 20 | 3117070 | B7 | 157.0 | 501.0 | 236.7 | 894.74 | 754.5 | 140.2 | 19 |
| 21 | 3115180 | B8 | 131.5 | 202.0 | 188.7 | 522.15 | 687.9 | -165.7 | -24 |
| 22 | 2719001 | N1 | 126.0 | 326.0 | 175.9 | 627.88 | 613.2 | 14.7 | 2 |
| 23 | 3023098 | N3 | 78.0 | 103.5 | 181.3 | 362.82 | 568.7 | -205.8 | -36 |
| 24 | 2321006 | M1 | 32.0 | 257.0 | 142.3 | 431.27 | 468.4 | -37.1 | -8 |
| 25 | 2526001 | J1 | 132.0 | 179.0 | 137.5 | 448.47 | 450.9 | -2.4 | -1 |
| 26 | 2033001 | J2 | 211.0 | 305.0 | 167.8 | 683.79 | 588.9 | 94.9 | 16 |
| 27 | 1437116 | J5 | 196.0 | 464.0 | 224.3 | 884.33 | 706.3 | 178.0 | 25 |
| 28 | 1829001 | J7 | 228.0 | 232.5 | 167.6 | 628.05 | 580.4 | 47.6 | 8 |
| 29 | 2528002 | J8 | 147.0 | 254.0 | 122.6 | 523.64 | 459.2 | 64.5 | 14 |
| 30 | 2536168 | J9 | 50.5 | 55.0 | 197.7 | 303.15 | 567.0 | -263.9 | -47 |
| 31 | 2527004 | J10 | 159.0 | 143.0 | 162.9 | 464.91 | 488.6 | -23.7 | -5 |
| 32 | 3424081 | C3 | 73.0 | 193.0 | 131.0 | 397.03 | 422.9 | -25.9 | -6 |
| 33 | 3533102 | C4 | 36.0 | 95.0 | 117.7 | 248.70 | 440.2 | -191.5 | -44 |
| 34 | 4414036 | C8 | 106.0 | 229.0 | 211.1 | 546.14 | 652.2 | -106.0 | -16 |
| 35 | 3930012 | C9 | 167.0 | 130.0 | 195.4 | 492.43 | 606.4 | -114.0 | -19 |
| 36 | 4726001 | D1 | 209.0 | 59.0 | 293.1 | 561.15 | 754.9 | -193.8 | -26 |
| 37 | 4819027 | D2 | 213.0 | 169.0 | 204.0 | 586.02 | 470.8 | 115.2 | 24 |
| 38 | 5921009 | D6 | 53.5 | 3.0 | 184.0 | 240.51 | 344.0 | -103.5 | -30 |
| 39 | 4234109 | T1 | 55.0 | 7.0 | 150.4 | 212.40 | 455.3 | -242.9 | -53 |
| 40 | 4734079 | T2 | 12.0 | 0.0 | 122.2 | 134.15 | 411.0 | -276.8 | -67 |
| 41 | 5331048 | T5 | 11.0 | 26.0 | 110.9 | 147.88 | 377.7 | -229.8 | -61 |
| | MEAN | | 112.8 | 229.0 | 186.4 | 528.3 | 581.9 | -53.7 | -10.0 |

Jadual 8 : Hujan 3 Bulan April, Mei LT dan Jun LT 2014 : Senario 1 (Analisis 3)

| No | Station ID | Indeks Stesen | Apr 2014 | Mei LT 2014 | Jun LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|-------------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 227.0 | 192.8 | 166.8 | 586.59 | 509.2 | 77.4 | 15 |
| 2 | 6206035 | K1 | 265.0 | 168.0 | 111.8 | 544.83 | 467.4 | 77.5 | 17 |
| 3 | 6103047 | K3 | 148.0 | 174.0 | 345.0 | 667.00 | 601.0 | 66.0 | 11 |
| 4 | 6207032 | K4 | 407.0 | 386.5 | 173.6 | 967.10 | 685.5 | 281.6 | 41 |
| 5 | 6108062 | K5 | 423.7 | 235.3 | 212.4 | 871.32 | 668.3 | 203.1 | 30 |
| 6 | 5505033 | P1 | 224.5 | 192.8 | 154.4 | 571.70 | 546.8 | 24.9 | 5 |
| 7 | 5304045 | P2 | 185.0 | 177.0 | 126.4 | 488.40 | 518.9 | -30.5 | -6 |
| 8 | 5302003 | P3 | 223.5 | 206.3 | 167.3 | 597.07 | 573.2 | 23.9 | 4 |
| 9 | 4109095 | A4 | 158.5 | 155.0 | 38.5 | 352.00 | 378.0 | -26.0 | -7 |
| 10 | 4011139 | A6 | 203.5 | 214.5 | 137.1 | 555.16 | 670.8 | -115.6 | -17 |
| 11 | 4011144 | A8 | 473.0 | 227.0 | 69.0 | 769.00 | 617.5 | 151.5 | 25 |
| 12 | 4511111 | A12 | 282.5 | 231.8 | 267.6 | 781.96 | 739.6 | 42.3 | 6 |
| 13 | 5006021 | A14 | 414.0 | 228.6 | 144.3 | 786.83 | 666.1 | 120.8 | 18 |
| 14 | 5003028 | A15 | 237.0 | 158.7 | 124.2 | 519.83 | 469.5 | 50.4 | 11 |
| 15 | 5210069 | A16 | 527.5 | 182.3 | 116.7 | 826.48 | 480.1 | 346.4 | 72 |
| 16 | 3411017 | B3 | 173.0 | 118.1 | 85.2 | 376.26 | 334.9 | 41.3 | 12 |
| 17 | 2917001 | B4 | 324.0 | 160.6 | 121.5 | 606.11 | 547.0 | 59.1 | 11 |
| 18 | 2818110 | B5 | 320.5 | 161.3 | 96.2 | 577.98 | 483.3 | 94.7 | 20 |
| 19 | 3516022 | B6 | 240.0 | 248.1 | 183.8 | 671.85 | 701.4 | -29.5 | -4 |
| 20 | 3117070 | B7 | 501.0 | 236.7 | 168.6 | 906.39 | 696.0 | 210.4 | 30 |
| 21 | 3115180 | B8 | 202.0 | 188.7 | 121.1 | 511.77 | 572.0 | -60.3 | -11 |
| 22 | 2719001 | N1 | 326.0 | 175.9 | 116.3 | 618.20 | 524.3 | 93.9 | 18 |
| 23 | 3023098 | N3 | 103.5 | 181.3 | 113.4 | 398.23 | 482.0 | -83.8 | -17 |
| 24 | 2321006 | M1 | 257.0 | 142.3 | 107.7 | 506.96 | 419.5 | 87.4 | 21 |
| 25 | 2526001 | J1 | 179.0 | 137.5 | 99.4 | 415.83 | 391.7 | 24.2 | 6 |
| 26 | 2033001 | J2 | 305.0 | 167.8 | 151.5 | 624.25 | 551.6 | 72.6 | 13 |
| 27 | 1437116 | J5 | 464.0 | 224.3 | 144.0 | 832.33 | 612.0 | 220.3 | 36 |
| 28 | 1829001 | J7 | 232.5 | 167.6 | 165.2 | 565.29 | 545.5 | 19.8 | 4 |
| 29 | 2528002 | J8 | 254.0 | 122.6 | 86.7 | 463.32 | 357.0 | 106.3 | 30 |
| 30 | 2536168 | J9 | 55.0 | 197.7 | 169.3 | 421.99 | 521.6 | -99.6 | -19 |
| 31 | 2527004 | J10 | 143.0 | 162.9 | 117.5 | 423.43 | 436.0 | -12.5 | -3 |
| 32 | 3424081 | C3 | 193.0 | 131.0 | 97.0 | 421.05 | 365.9 | 55.1 | 15 |
| 33 | 3533102 | C4 | 95.0 | 117.7 | 111.0 | 323.70 | 359.7 | -36.0 | -10 |
| 34 | 4414036 | C8 | 229.0 | 211.1 | 106.3 | 546.39 | 557.5 | -11.1 | -2 |
| 35 | 3930012 | C9 | 130.0 | 195.4 | 181.8 | 507.25 | 589.2 | -82.0 | -14 |
| 36 | 4726001 | D1 | 59.0 | 293.1 | 221.7 | 573.85 | 747.2 | -173.3 | -23 |
| 37 | 4819027 | D2 | 169.0 | 204.0 | 202.7 | 575.73 | 558.1 | 17.6 | 3 |
| 38 | 5921009 | D6 | 3.0 | 184.0 | 174.9 | 361.94 | 434.3 | -72.3 | -17 |
| 39 | 4234109 | T1 | 7.0 | 150.4 | 152.8 | 310.20 | 434.6 | -124.4 | -29 |
| 40 | 4734079 | T2 | 0.0 | 122.2 | 107.0 | 229.18 | 363.8 | -134.6 | -37 |
| 41 | 5331048 | T5 | 26.0 | 110.9 | 100.5 | 237.40 | 318.8 | -81.4 | -26 |
| | MEAN | | 229.0 | 186.4 | 142.9 | 558.3 | 524.3 | 34.0 | 5.7 |

Jadual 9 : Hujan 3 Bulan Februari, Mac dan April 2014 : Senario 2 (Analisis 1)

| No | Station ID | Indeks Stesen | Feb 2014 | Mac 2014 | Apr 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|----------|----------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 0.0 | 20.0 | 227.0 | 247.00 | 319.6 | -72.6 | -23 |
| 2 | 6206035 | K1 | 0.0 | 76.0 | 265.0 | 341.00 | 381.9 | -40.9 | -11 |
| 3 | 6103047 | K3 | 0.0 | 50.0 | 148.0 | 198.00 | 553.1 | -355.1 | -64 |
| 4 | 6207032 | K4 | 0.0 | 139.0 | 407.0 | 546.00 | 425.1 | 120.9 | 28 |
| 5 | 6108062 | K5 | 0.0 | 103.0 | 423.7 | 526.70 | 493.4 | 33.3 | 7 |
| 6 | 5505033 | P1 | 63.0 | 67.5 | 224.5 | 355.00 | 421.0 | -66.0 | -16 |
| 7 | 5304045 | P2 | 30.0 | 52.5 | 185.0 | 267.50 | 457.1 | -189.6 | -41 |
| 8 | 5302003 | P3 | 19.5 | 37.5 | 223.5 | 280.50 | 396.3 | -115.8 | -29 |
| 9 | 4109095 | A4 | 38.0 | 181.0 | 158.5 | 377.50 | 771.5 | -394.0 | -51 |
| 10 | 4011139 | A6 | 72.0 | 115.0 | 203.5 | 390.50 | 858.2 | -467.7 | -54 |
| 11 | 4011144 | A8 | 46.5 | 158.5 | 473.0 | 678.00 | 944.0 | -266.0 | -28 |
| 12 | 4511111 | A12 | 17.0 | 34.0 | 282.5 | 333.50 | 550.3 | -216.8 | -39 |
| 13 | 5006021 | A14 | 14.5 | 121.5 | 414.0 | 550.00 | 726.9 | -176.9 | -24 |
| 14 | 5003028 | A15 | 3.0 | 136.5 | 237.0 | 376.50 | 432.7 | -56.2 | -13 |
| 15 | 5210069 | A16 | 12.5 | 72.0 | 527.5 | 612.00 | 370.3 | 241.7 | 65 |
| 16 | 3411017 | B3 | 73.0 | 30.5 | 173.0 | 276.50 | 355.4 | -78.9 | -22 |
| 17 | 2917001 | B4 | 23.0 | 316.5 | 324.0 | 663.50 | 676.4 | -12.9 | -2 |
| 18 | 2818110 | B5 | 2.0 | 182.5 | 320.5 | 505.00 | 553.2 | -48.2 | -9 |
| 19 | 3516022 | B6 | 46.5 | 148.0 | 240.0 | 434.50 | 598.4 | -163.9 | -27 |
| 20 | 3117070 | B7 | 39.5 | 157.0 | 501.0 | 697.50 | 694.7 | 2.8 | 0 |
| 21 | 3115180 | B8 | 0.0 | 131.5 | 202.0 | 333.50 | 677.7 | -344.2 | -51 |
| 22 | 2719001 | N1 | 0.0 | 126.0 | 326.0 | 452.00 | 560.7 | -108.7 | -19 |
| 23 | 3023098 | N3 | 0.0 | 78.0 | 103.5 | 181.50 | 495.7 | -314.2 | -63 |
| 24 | 2321006 | M1 | 0.5 | 32.0 | 257.0 | 289.50 | 406.7 | -117.2 | -29 |
| 25 | 2526001 | J1 | 0.0 | 132.0 | 179.0 | 311.00 | 408.1 | -97.1 | -24 |
| 26 | 2033001 | J2 | 0.0 | 211.0 | 305.0 | 516.00 | 522.0 | -6.0 | -1 |
| 27 | 1437116 | J5 | 16.5 | 196.0 | 464.0 | 676.50 | 620.4 | 56.1 | 9 |
| 28 | 1829001 | J7 | 62.5 | 228.0 | 232.5 | 523.00 | 577.5 | -54.5 | -9 |
| 29 | 2528002 | J8 | 0.0 | 147.0 | 254.0 | 401.00 | 432.7 | -31.7 | -7 |
| 30 | 2536168 | J9 | 0.0 | 50.5 | 55.0 | 105.50 | 584.5 | -479.0 | -82 |
| 31 | 2527004 | J10 | 0.0 | 159.0 | 143.0 | 302.00 | 444.1 | -142.1 | -32 |
| 32 | 3424081 | C3 | 0.0 | 73.0 | 193.0 | 266.00 | 394.6 | -128.6 | -33 |
| 33 | 3533102 | C4 | 8.0 | 36.0 | 95.0 | 139.00 | 435.1 | -296.1 | -68 |
| 34 | 4414036 | C8 | 6.0 | 106.0 | 229.0 | 341.00 | 559.6 | -218.6 | -39 |
| 35 | 3930012 | C9 | 68.0 | 167.0 | 130.0 | 365.00 | 525.3 | -160.3 | -31 |
| 36 | 4726001 | D1 | 0.0 | 209.0 | 59.0 | 268.00 | 647.6 | -379.6 | -59 |
| 37 | 4819027 | D2 | 3.0 | 213.0 | 169.0 | 385.00 | 345.8 | 39.2 | 11 |
| 38 | 5921009 | D6 | 11.0 | 53.5 | 3.0 | 67.50 | 240.8 | -173.3 | -72 |
| 39 | 4234109 | T1 | 8.0 | 55.0 | 7.0 | 70.00 | 410.0 | -340.0 | -83 |
| 40 | 4734079 | T2 | 0.0 | 12.0 | 0.0 | 12.00 | 359.2 | -347.2 | -97 |
| 41 | 5331048 | T5 | 0.0 | 11.0 | 26.0 | 37.00 | 357.8 | -320.8 | -90 |
| | MEAN | | 16.7 | 112.8 | 229.0 | 358.5 | 511.8 | -153.3 | -29.8 |

Jadual 10 : Hujan 3 Bulan Mac, April dan Mei LT 2014: Senario 2 (Analisis 2)

| No | Station ID | Indeks Stesen | Mac 2014 | Apr 2014 | Mei LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|----------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 20.0 | 227.0 | 231.4 | 478.36 | 470.5 | 7.9 | 2 |
| 2 | 6206035 | K1 | 76.0 | 265.0 | 201.6 | 542.58 | 502.4 | 40.1 | 8 |
| 3 | 6103047 | K3 | 50.0 | 148.0 | 208.8 | 406.80 | 726.5 | -319.7 | -44 |
| 4 | 6207032 | K4 | 139.0 | 407.0 | 463.8 | 1009.80 | 807.9 | 201.9 | 25 |
| 5 | 6108062 | K5 | 103.0 | 423.7 | 282.3 | 809.01 | 637.2 | 171.8 | 27 |
| 6 | 5505033 | P1 | 67.5 | 224.5 | 231.3 | 523.35 | 528.2 | -4.9 | -1 |
| 7 | 5304045 | P2 | 52.5 | 185.0 | 212.4 | 449.89 | 542.0 | -92.1 | -17 |
| 8 | 5302003 | P3 | 37.5 | 223.5 | 247.5 | 508.50 | 527.6 | -19.1 | -4 |
| 9 | 4109095 | A4 | 181.0 | 158.5 | 186.0 | 525.50 | 778.5 | -253.0 | -32 |
| 10 | 4011139 | A6 | 115.0 | 203.5 | 257.4 | 575.94 | 834.0 | -258.1 | -31 |
| 11 | 4011144 | A8 | 158.5 | 473.0 | 272.4 | 903.90 | 878.0 | 25.9 | 3 |
| 12 | 4511111 | A12 | 34.0 | 282.5 | 278.2 | 594.71 | 662.7 | -68.0 | -10 |
| 13 | 5006021 | A14 | 121.5 | 414.0 | 274.3 | 809.78 | 775.3 | 34.5 | 4 |
| 14 | 5003028 | A15 | 136.5 | 237.0 | 190.4 | 563.90 | 494.8 | 69.1 | 14 |
| 15 | 5210069 | A16 | 72.0 | 527.5 | 218.7 | 818.24 | 480.5 | 337.7 | 70 |
| 16 | 3411017 | B3 | 30.5 | 173.0 | 141.7 | 345.20 | 374.8 | -29.6 | -8 |
| 17 | 2917001 | B4 | 316.5 | 324.0 | 192.7 | 833.21 | 665.0 | 168.2 | 25 |
| 18 | 2818110 | B5 | 182.5 | 320.5 | 193.6 | 696.56 | 590.7 | 105.8 | 18 |
| 19 | 3516022 | B6 | 148.0 | 240.0 | 297.7 | 685.69 | 712.9 | -27.2 | -4 |
| 20 | 3117070 | B7 | 157.0 | 501.0 | 284.1 | 942.09 | 754.5 | 187.6 | 25 |
| 21 | 3115180 | B8 | 131.5 | 202.0 | 226.4 | 559.88 | 687.9 | -128.0 | -19 |
| 22 | 2719001 | N1 | 126.0 | 326.0 | 211.1 | 663.05 | 613.2 | 49.9 | 8 |
| 23 | 3023098 | N3 | 78.0 | 103.5 | 217.6 | 399.08 | 568.7 | -169.6 | -30 |
| 24 | 2321006 | M1 | 32.0 | 257.0 | 170.7 | 459.73 | 468.4 | -8.6 | -2 |
| 25 | 2526001 | J1 | 132.0 | 179.0 | 165.0 | 475.97 | 450.9 | 25.1 | 6 |
| 26 | 2033001 | J2 | 211.0 | 305.0 | 201.4 | 717.35 | 588.9 | 128.4 | 22 |
| 27 | 1437116 | J5 | 196.0 | 464.0 | 269.2 | 929.20 | 706.3 | 222.8 | 32 |
| 28 | 1829001 | J7 | 228.0 | 232.5 | 201.1 | 661.56 | 580.4 | 81.2 | 14 |
| 29 | 2528002 | J8 | 147.0 | 254.0 | 147.2 | 548.17 | 459.2 | 89.0 | 19 |
| 30 | 2536168 | J9 | 50.5 | 55.0 | 237.2 | 342.68 | 567.0 | -224.3 | -40 |
| 31 | 2527004 | J10 | 159.0 | 143.0 | 195.5 | 497.50 | 488.6 | 8.9 | 2 |
| 32 | 3424081 | C3 | 73.0 | 193.0 | 157.2 | 423.24 | 422.9 | 0.3 | 0 |
| 33 | 3533102 | C4 | 36.0 | 95.0 | 141.2 | 272.23 | 440.2 | -168.0 | -38 |
| 34 | 4414036 | C8 | 106.0 | 229.0 | 253.4 | 588.37 | 652.2 | -63.8 | -10 |
| 35 | 3930012 | C9 | 167.0 | 130.0 | 234.5 | 531.51 | 606.4 | -74.9 | -12 |
| 36 | 4726001 | D1 | 209.0 | 59.0 | 351.8 | 619.78 | 754.9 | -135.1 | -18 |
| 37 | 4819027 | D2 | 213.0 | 169.0 | 244.8 | 626.83 | 470.8 | 156.0 | 33 |
| 38 | 5921009 | D6 | 53.5 | 3.0 | 220.8 | 277.31 | 344.0 | -66.7 | -19 |
| 39 | 4234109 | T1 | 55.0 | 7.0 | 180.5 | 242.47 | 455.3 | -212.8 | -47 |
| 40 | 4734079 | T2 | 12.0 | 0.0 | 146.6 | 158.59 | 411.0 | -252.4 | -61 |
| 41 | 5331048 | T5 | 11.0 | 26.0 | 133.1 | 170.05 | 377.7 | -207.7 | -55 |
| | MEAN | | 112.8 | 229.0 | 223.7 | 565.6 | 581.9 | -16.4 | -3.5 |

Jadual 11 : Hujan 3 Bulan April, Mei LT dan Jun LT 2014: Senario 2 (Analisis 3)

| No | Station ID | Indeks Stesen | April 2014 | Mei LT 2014 | Jun LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|------------|-------------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 227.0 | 231.4 | 200.2 | 658.51 | 509.2 | 149.3 | 29 |
| 2 | 6206035 | K1 | 265.0 | 201.6 | 134.2 | 600.79 | 467.4 | 133.4 | 29 |
| 3 | 6103047 | K3 | 148.0 | 208.8 | 414.0 | 770.80 | 601.0 | 169.8 | 28 |
| 4 | 6207032 | K4 | 407.0 | 463.8 | 208.3 | 1079.12 | 685.5 | 393.6 | 57 |
| 5 | 6108062 | K5 | 423.7 | 282.3 | 254.8 | 960.84 | 668.3 | 292.6 | 44 |
| 6 | 5505033 | P1 | 224.5 | 231.3 | 185.3 | 641.14 | 546.8 | 94.3 | 17 |
| 7 | 5304045 | P2 | 185.0 | 212.4 | 151.7 | 549.08 | 518.9 | 30.2 | 6 |
| 8 | 5302003 | P3 | 223.5 | 247.5 | 200.8 | 671.79 | 573.2 | 98.6 | 17 |
| 9 | 4109095 | A4 | 158.5 | 186.0 | 46.2 | 390.70 | 378.0 | 12.7 | 3 |
| 10 | 4011139 | A6 | 203.5 | 257.4 | 164.6 | 625.49 | 670.8 | -45.3 | -7 |
| 11 | 4011144 | A8 | 473.0 | 272.4 | 82.8 | 828.20 | 617.5 | 210.7 | 34 |
| 12 | 4511111 | A12 | 282.5 | 278.2 | 321.2 | 881.86 | 739.6 | 142.2 | 19 |
| 13 | 5006021 | A14 | 414.0 | 274.3 | 173.1 | 861.39 | 666.1 | 195.3 | 29 |
| 14 | 5003028 | A15 | 237.0 | 190.4 | 149.0 | 576.40 | 469.5 | 106.9 | 23 |
| 15 | 5210069 | A16 | 527.5 | 218.7 | 140.0 | 886.28 | 480.1 | 406.2 | 85 |
| 16 | 3411017 | B3 | 173.0 | 141.7 | 102.2 | 416.92 | 334.9 | 82.0 | 24 |
| 17 | 2917001 | B4 | 324.0 | 192.7 | 145.8 | 662.54 | 547.0 | 115.5 | 21 |
| 18 | 2818110 | B5 | 320.5 | 193.6 | 115.4 | 629.47 | 483.3 | 146.2 | 30 |
| 19 | 3516022 | B6 | 240.0 | 297.7 | 220.5 | 758.22 | 701.4 | 56.8 | 8 |
| 20 | 3117070 | B7 | 501.0 | 284.1 | 202.4 | 987.47 | 696.0 | 291.4 | 42 |
| 21 | 3115180 | B8 | 202.0 | 226.4 | 145.3 | 573.72 | 572.0 | 1.7 | 0 |
| 22 | 2719001 | N1 | 326.0 | 211.1 | 139.6 | 676.63 | 524.3 | 152.3 | 29 |
| 23 | 3023098 | N3 | 103.5 | 217.6 | 136.1 | 457.18 | 482.0 | -24.9 | -5 |
| 24 | 2321006 | M1 | 257.0 | 170.7 | 129.2 | 556.96 | 419.5 | 137.4 | 33 |
| 25 | 2526001 | J1 | 179.0 | 165.0 | 119.2 | 463.20 | 391.7 | 71.5 | 18 |
| 26 | 2033001 | J2 | 305.0 | 201.4 | 181.8 | 688.10 | 551.6 | 136.5 | 25 |
| 27 | 1437116 | J5 | 464.0 | 269.2 | 172.8 | 905.99 | 612.0 | 294.0 | 48 |
| 28 | 1829001 | J7 | 232.5 | 201.1 | 198.3 | 631.85 | 545.5 | 86.3 | 16 |
| 29 | 2528002 | J8 | 254.0 | 147.2 | 104.0 | 505.18 | 357.0 | 148.2 | 41 |
| 30 | 2536168 | J9 | 55.0 | 237.2 | 203.2 | 495.39 | 521.6 | -26.2 | -5 |
| 31 | 2527004 | J10 | 143.0 | 195.5 | 141.0 | 479.52 | 436.0 | 43.6 | 10 |
| 32 | 3424081 | C3 | 193.0 | 157.2 | 116.4 | 466.67 | 365.9 | 100.7 | 28 |
| 33 | 3533102 | C4 | 95.0 | 141.2 | 133.2 | 369.43 | 359.7 | 9.7 | 3 |
| 34 | 4414036 | C8 | 229.0 | 253.4 | 127.5 | 609.87 | 557.5 | 52.4 | 9 |
| 35 | 3930012 | C9 | 130.0 | 234.5 | 218.2 | 582.69 | 589.2 | -6.6 | -1 |
| 36 | 4726001 | D1 | 59.0 | 351.8 | 266.0 | 676.83 | 747.2 | -70.3 | -9 |
| 37 | 4819027 | D2 | 169.0 | 244.8 | 243.2 | 657.07 | 558.1 | 99.0 | 18 |
| 38 | 5921009 | D6 | 3.0 | 220.8 | 209.9 | 433.73 | 434.3 | -0.5 | 0 |
| 39 | 4234109 | T1 | 7.0 | 180.5 | 183.4 | 370.83 | 434.6 | -63.8 | -15 |
| 40 | 4734079 | T2 | 0.0 | 146.6 | 128.4 | 275.01 | 363.8 | -88.7 | -24 |
| 41 | 5331048 | T5 | 26.0 | 133.1 | 120.6 | 279.68 | 318.8 | -39.1 | -12 |
| | MEAN | | 229.0 | 223.7 | 171.5 | 624.2 | 524.3 | 99.9 | 18.2 |

Jadual 12 : Hujan 3 Bulan Februari, Mac dan April 2014: Senario 3 (Analisis 1)

| No | Station ID | Indeks Stesen | Feb 2014 | Mac 2014 | Apr 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|----------|----------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 0.0 | 20.0 | 227.0 | 247.00 | 319.6 | -72.6 | -23 |
| 2 | 6206035 | K1 | 0.0 | 76.0 | 265.0 | 341.00 | 381.9 | -40.9 | -11 |
| 3 | 6103047 | K3 | 0.0 | 50.0 | 148.0 | 198.00 | 553.1 | -355.1 | -64 |
| 4 | 6207032 | K4 | 0.0 | 139.0 | 407.0 | 546.00 | 425.1 | 120.9 | 28 |
| 5 | 6108062 | K5 | 0.0 | 103.0 | 423.7 | 526.70 | 493.4 | 33.3 | 7 |
| 6 | 5505033 | P1 | 63.0 | 67.5 | 224.5 | 355.00 | 421.0 | -66.0 | -16 |
| 7 | 5304045 | P2 | 30.0 | 52.5 | 185.0 | 267.50 | 457.1 | -189.6 | -41 |
| 8 | 5302003 | P3 | 19.5 | 37.5 | 223.5 | 280.50 | 396.3 | -115.8 | -29 |
| 9 | 4109095 | A4 | 38.0 | 181.0 | 158.5 | 377.50 | 771.5 | -394.0 | -51 |
| 10 | 4011139 | A6 | 72.0 | 115.0 | 203.5 | 390.50 | 858.2 | -467.7 | -54 |
| 11 | 4011144 | A8 | 46.5 | 158.5 | 473.0 | 678.00 | 944.0 | -266.0 | -28 |
| 12 | 4511111 | A12 | 17.0 | 34.0 | 282.5 | 333.50 | 550.3 | -216.8 | -39 |
| 13 | 5006021 | A14 | 14.5 | 121.5 | 414.0 | 550.00 | 726.9 | -176.9 | -24 |
| 14 | 5003028 | A15 | 3.0 | 136.5 | 237.0 | 376.50 | 432.7 | -56.2 | -13 |
| 15 | 5210069 | A16 | 12.5 | 72.0 | 527.5 | 612.00 | 370.3 | 241.7 | 65 |
| 16 | 3411017 | B3 | 73.0 | 30.5 | 173.0 | 276.50 | 355.4 | -78.9 | -22 |
| 17 | 2917001 | B4 | 23.0 | 316.5 | 324.0 | 663.50 | 676.4 | -12.9 | -2 |
| 18 | 2818110 | B5 | 2.0 | 182.5 | 320.5 | 505.00 | 553.2 | -48.2 | -9 |
| 19 | 3516022 | B6 | 46.5 | 148.0 | 240.0 | 434.50 | 598.4 | -163.9 | -27 |
| 20 | 3117070 | B7 | 39.5 | 157.0 | 501.0 | 697.50 | 694.7 | 2.8 | 0 |
| 21 | 3115180 | B8 | 0.0 | 131.5 | 202.0 | 333.50 | 677.7 | -344.2 | -51 |
| 22 | 2719001 | N1 | 0.0 | 126.0 | 326.0 | 452.00 | 560.7 | -108.7 | -19 |
| 23 | 3023098 | N3 | 0.0 | 78.0 | 103.5 | 181.50 | 495.7 | -314.2 | -63 |
| 24 | 2321006 | M1 | 0.5 | 32.0 | 257.0 | 289.50 | 406.7 | -117.2 | -29 |
| 25 | 2526001 | J1 | 0.0 | 132.0 | 179.0 | 311.00 | 408.1 | -97.1 | -24 |
| 26 | 2033001 | J2 | 0.0 | 211.0 | 305.0 | 516.00 | 522.0 | -6.0 | -1 |
| 27 | 1437116 | J5 | 16.5 | 196.0 | 464.0 | 676.50 | 620.4 | 56.1 | 9 |
| 28 | 1829001 | J7 | 62.5 | 228.0 | 232.5 | 523.00 | 577.5 | -54.5 | -9 |
| 29 | 2528002 | J8 | 0.0 | 147.0 | 254.0 | 401.00 | 432.7 | -31.7 | -7 |
| 30 | 2536168 | J9 | 0.0 | 50.5 | 55.0 | 105.50 | 584.5 | -479.0 | -82 |
| 31 | 2527004 | J10 | 0.0 | 159.0 | 143.0 | 302.00 | 444.1 | -142.1 | -32 |
| 32 | 3424081 | C3 | 0.0 | 73.0 | 193.0 | 266.00 | 394.6 | -128.6 | -33 |
| 33 | 3533102 | C4 | 8.0 | 36.0 | 95.0 | 139.00 | 435.1 | -296.1 | -68 |
| 34 | 4414036 | C8 | 6.0 | 106.0 | 229.0 | 341.00 | 559.6 | -218.6 | -39 |
| 35 | 3930012 | C9 | 68.0 | 167.0 | 130.0 | 365.00 | 525.3 | -160.3 | -31 |
| 36 | 4726001 | D1 | 0.0 | 209.0 | 59.0 | 268.00 | 647.6 | -379.6 | -59 |
| 37 | 4819027 | D2 | 3.0 | 213.0 | 169.0 | 385.00 | 345.8 | 39.2 | 11 |
| 38 | 5921009 | D6 | 11.0 | 53.5 | 3.0 | 67.50 | 240.8 | -173.3 | -72 |
| 39 | 4234109 | T1 | 8.0 | 55.0 | 7.0 | 70.00 | 410.0 | -340.0 | -83 |
| 40 | 4734079 | T2 | 0.0 | 12.0 | 0.0 | 12.00 | 359.2 | -347.2 | -97 |
| 41 | 5331048 | T5 | 0.0 | 11.0 | 26.0 | 37.00 | 357.8 | -320.8 | -90 |
| | MEAN | | 16.7 | 112.8 | 229.0 | 358.5 | 511.8 | -153.3 | -29.8 |

Jadual 13 : Hujan 3 Bulan Mac, April dan Mei LT 2014: Senario 3 (Analisa 2)

| No | Station ID | Indeks Stesen | Mac 2014 | Apr 2014 | Mei LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|----------|----------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 20.0 | 227.0 | 154.2 | 401.24 | 470.5 | -69.2 | -15 |
| 2 | 6206035 | K1 | 76.0 | 265.0 | 134.4 | 475.39 | 502.4 | -27.0 | -5 |
| 3 | 6103047 | K3 | 50.0 | 148.0 | 139.2 | 337.20 | 726.5 | -389.3 | -54 |
| 4 | 6207032 | K4 | 139.0 | 407.0 | 309.2 | 855.20 | 807.9 | 47.3 | 6 |
| 5 | 6108062 | K5 | 103.0 | 423.7 | 188.2 | 714.91 | 637.2 | 77.7 | 12 |
| 6 | 5505033 | P1 | 67.5 | 224.5 | 154.2 | 446.23 | 528.2 | -82.0 | -16 |
| 7 | 5304045 | P2 | 52.5 | 185.0 | 141.6 | 379.10 | 542.0 | -162.9 | -30 |
| 8 | 5302003 | P3 | 37.5 | 223.5 | 165.0 | 426.00 | 527.6 | -101.6 | -19 |
| 9 | 4109095 | A4 | 181.0 | 158.5 | 124.0 | 463.50 | 778.5 | -315.0 | -40 |
| 10 | 4011139 | A6 | 115.0 | 203.5 | 171.6 | 490.13 | 834.0 | -343.9 | -41 |
| 11 | 4011144 | A8 | 158.5 | 473.0 | 181.6 | 813.10 | 878.0 | -64.9 | -7 |
| 12 | 4511111 | A12 | 34.0 | 282.5 | 185.5 | 501.97 | 662.7 | -160.7 | -24 |
| 13 | 5006021 | A14 | 121.5 | 414.0 | 182.9 | 718.35 | 775.3 | -56.9 | -7 |
| 14 | 5003028 | A15 | 136.5 | 237.0 | 126.9 | 500.44 | 494.8 | 5.6 | 1 |
| 15 | 5210069 | A16 | 72.0 | 527.5 | 145.8 | 745.33 | 480.5 | 264.8 | 55 |
| 16 | 3411017 | B3 | 30.5 | 173.0 | 94.5 | 297.97 | 374.8 | -76.8 | -20 |
| 17 | 2917001 | B4 | 316.5 | 324.0 | 128.5 | 768.97 | 665.0 | 104.0 | 16 |
| 18 | 2818110 | B5 | 182.5 | 320.5 | 129.0 | 632.04 | 590.7 | 41.3 | 7 |
| 19 | 3516022 | B6 | 148.0 | 240.0 | 198.5 | 586.46 | 712.9 | -126.4 | -18 |
| 20 | 3117070 | B7 | 157.0 | 501.0 | 189.4 | 847.40 | 754.5 | 92.9 | 12 |
| 21 | 3115180 | B8 | 131.5 | 202.0 | 150.9 | 484.42 | 687.9 | -203.5 | -30 |
| 22 | 2719001 | N1 | 126.0 | 326.0 | 140.7 | 592.70 | 613.2 | -20.5 | -3 |
| 23 | 3023098 | N3 | 78.0 | 103.5 | 145.1 | 326.56 | 568.7 | -242.1 | -43 |
| 24 | 2321006 | M1 | 32.0 | 257.0 | 113.8 | 402.82 | 468.4 | -65.6 | -14 |
| 25 | 2526001 | J1 | 132.0 | 179.0 | 110.0 | 420.98 | 450.9 | -29.9 | -7 |
| 26 | 2033001 | J2 | 211.0 | 305.0 | 134.2 | 650.24 | 588.9 | 61.3 | 10 |
| 27 | 1437116 | J5 | 196.0 | 464.0 | 179.5 | 839.46 | 706.3 | 133.1 | 19 |
| 28 | 1829001 | J7 | 228.0 | 232.5 | 134.0 | 594.54 | 580.4 | 14.1 | 2 |
| 29 | 2528002 | J8 | 147.0 | 254.0 | 98.1 | 499.11 | 459.2 | 39.9 | 9 |
| 30 | 2536168 | J9 | 50.5 | 55.0 | 158.1 | 263.62 | 567.0 | -303.4 | -54 |
| 31 | 2527004 | J10 | 159.0 | 143.0 | 130.3 | 432.33 | 488.6 | -56.3 | -12 |
| 32 | 3424081 | C3 | 73.0 | 193.0 | 104.8 | 370.82 | 422.9 | -52.1 | -12 |
| 33 | 3533102 | C4 | 36.0 | 95.0 | 94.2 | 225.16 | 440.2 | -215.0 | -49 |
| 34 | 4414036 | C8 | 106.0 | 229.0 | 168.9 | 503.91 | 652.2 | -148.3 | -23 |
| 35 | 3930012 | C9 | 167.0 | 130.0 | 156.3 | 453.34 | 606.4 | -153.1 | -25 |
| 36 | 4726001 | D1 | 209.0 | 59.0 | 234.5 | 502.52 | 754.9 | -252.4 | -33 |
| 37 | 4819027 | D2 | 213.0 | 169.0 | 163.2 | 545.22 | 470.8 | 74.4 | 16 |
| 38 | 5921009 | D6 | 53.5 | 3.0 | 147.2 | 203.71 | 344.0 | -140.3 | -41 |
| 39 | 4234109 | T1 | 55.0 | 7.0 | 120.3 | 182.32 | 455.3 | -273.0 | -60 |
| 40 | 4734079 | T2 | 12.0 | 0.0 | 97.7 | 109.72 | 411.0 | -301.3 | -73 |
| 41 | 5331048 | T5 | 11.0 | 26.0 | 88.7 | 125.70 | 377.7 | -252.0 | -67 |
| | MEAN | | 112.8 | 229.0 | 149.1 | 491.0 | 581.9 | -90.9 | -16.5 |

Jadual 14 : Hujan 3 Bulan April, Mei LT dan Jun LT 2014 : Senario 3 (Analisa 3)

| No | Station ID | Indeks Stesen | April 2014 | Mei LT 2014 | Jun LT 2014 | Kumulatif Hujan Sebenar 3 Bulan | Kumulatif Hujan 'Long Term' 3 Bulan | Perbezaan Hujan (mm) | % Dev |
|----|------------|---------------|------------|-------------|-------------|---------------------------------|-------------------------------------|----------------------|-------|
| 1 | 6501005 | R1 | 227.0 | 154.2 | 133.4 | 514.68 | 509.2 | 5.5 | 1 |
| 2 | 6206035 | K1 | 265.0 | 134.4 | 89.5 | 488.86 | 467.4 | 21.5 | 5 |
| 3 | 6103047 | K3 | 148.0 | 139.2 | 276.0 | 563.20 | 601.0 | -37.8 | -6 |
| 4 | 6207032 | K4 | 407.0 | 309.2 | 138.9 | 855.08 | 685.5 | 169.6 | 25 |
| 5 | 6108062 | K5 | 423.7 | 188.2 | 169.9 | 781.80 | 668.3 | 113.5 | 17 |
| 6 | 5505033 | P1 | 224.5 | 154.2 | 123.5 | 502.26 | 546.8 | -44.5 | -8 |
| 7 | 5304045 | P2 | 185.0 | 141.6 | 101.1 | 427.72 | 518.9 | -91.1 | -18 |
| 8 | 5302003 | P3 | 223.5 | 165.0 | 133.9 | 522.36 | 573.2 | -50.8 | -9 |
| 9 | 4109095 | A4 | 158.5 | 124.0 | 30.8 | 313.30 | 378.0 | -64.7 | -17 |
| 10 | 4011139 | A6 | 203.5 | 171.6 | 109.7 | 484.83 | 670.8 | -185.9 | -28 |
| 11 | 4011144 | A8 | 473.0 | 181.6 | 55.2 | 709.80 | 617.5 | 92.3 | 15 |
| 12 | 4511111 | A12 | 282.5 | 185.5 | 214.1 | 682.07 | 739.6 | -57.6 | -8 |
| 13 | 5006021 | A14 | 414.0 | 182.9 | 115.4 | 712.26 | 666.1 | 46.2 | 7 |
| 14 | 5003028 | A15 | 237.0 | 126.9 | 99.3 | 463.26 | 469.5 | -6.2 | -1 |
| 15 | 5210069 | A16 | 527.5 | 145.8 | 93.4 | 766.69 | 480.1 | 286.6 | 60 |
| 16 | 3411017 | B3 | 173.0 | 94.5 | 68.1 | 335.61 | 334.9 | 0.7 | 0 |
| 17 | 2917001 | B4 | 324.0 | 128.5 | 97.2 | 549.69 | 547.0 | 2.7 | 0 |
| 18 | 2818110 | B5 | 320.5 | 129.0 | 76.9 | 526.48 | 483.3 | 43.2 | 9 |
| 19 | 3516022 | B6 | 240.0 | 198.5 | 147.0 | 585.48 | 701.4 | -115.9 | -17 |
| 20 | 3117070 | B7 | 501.0 | 189.4 | 134.9 | 825.31 | 696.0 | 129.3 | 19 |
| 21 | 3115180 | B8 | 202.0 | 150.9 | 96.9 | 449.82 | 572.0 | -122.2 | -21 |
| 22 | 2719001 | N1 | 326.0 | 140.7 | 93.1 | 559.76 | 524.3 | 35.5 | 7 |
| 23 | 3023098 | N3 | 103.5 | 145.1 | 90.7 | 339.29 | 482.0 | -142.8 | -30 |
| 24 | 2321006 | M1 | 257.0 | 113.8 | 86.2 | 456.97 | 419.5 | 37.5 | 9 |
| 25 | 2526001 | J1 | 179.0 | 110.0 | 79.5 | 368.47 | 391.7 | -23.2 | -6 |
| 26 | 2033001 | J2 | 305.0 | 134.2 | 121.2 | 560.40 | 551.6 | 8.8 | 2 |
| 27 | 1437116 | J5 | 464.0 | 179.5 | 115.2 | 758.66 | 612.0 | 146.6 | 24 |
| 28 | 1829001 | J7 | 232.5 | 134.0 | 132.2 | 498.73 | 545.5 | -46.8 | -9 |
| 29 | 2528002 | J8 | 254.0 | 98.1 | 69.3 | 421.45 | 357.0 | 64.4 | 18 |
| 30 | 2536168 | J9 | 55.0 | 158.1 | 135.5 | 348.60 | 521.6 | -173.0 | -33 |
| 31 | 2527004 | J10 | 143.0 | 130.3 | 94.0 | 367.35 | 436.0 | -68.6 | -16 |
| 32 | 3424081 | C3 | 193.0 | 104.8 | 77.6 | 375.44 | 365.9 | 9.5 | 3 |
| 33 | 3533102 | C4 | 95.0 | 94.2 | 88.8 | 277.96 | 359.7 | -81.7 | -23 |
| 34 | 4414036 | C8 | 229.0 | 168.9 | 85.0 | 482.92 | 557.5 | -74.6 | -13 |
| 35 | 3930012 | C9 | 130.0 | 156.3 | 145.5 | 431.80 | 589.2 | -157.4 | -27 |
| 36 | 4726001 | D1 | 59.0 | 234.5 | 177.4 | 470.88 | 747.2 | -276.3 | -37 |
| 37 | 4819027 | D2 | 169.0 | 163.2 | 162.2 | 494.38 | 558.1 | -63.7 | -11 |
| 38 | 5921009 | D6 | 3.0 | 147.2 | 139.9 | 290.15 | 434.3 | -144.1 | -33 |
| 39 | 4234109 | T1 | 7.0 | 120.3 | 122.2 | 249.56 | 434.6 | -185.1 | -43 |
| 40 | 4734079 | T2 | 0.0 | 97.7 | 85.6 | 183.34 | 363.8 | -180.4 | -50 |
| 41 | 5331048 | T5 | 26.0 | 88.7 | 80.4 | 195.12 | 318.8 | -123.7 | -39 |
| | MEAN | | 229.0 | 149.1 | 114.3 | 492.5 | 524.3 | -31.8 | -6.9 |

Berdasarkan keputusan Analisis Hujan 1 Bulan dan Analisis Hujan 3 Bulan bagi bulan **April 2014** (keseluruhan senario), kawasan kebarangkalian kering bagi bulan Mei dan Jun 2014 adalah seperti Jadual 15, Jadual 16 dan Jadual 17.

Jadual 15 : Senarai Stesen Kebarangkalian Kering Berpandukan Analisis Hujan Bagi Bulan **April 2014**
(Senario 1: Sekiranya Berlaku **Hujan Normal** bagi Bulan Mei dan Jun 2014)

| BULAN | INDEKS STESEN | DAERAH | NEGERI | KAWASAN KEBARANGKALIAN KERING |
|-----------------|---------------|---------------------|-------------|-------------------------------|
| Mei 2014 | K3 | Kota Setar | Kedah | Kota Setar |
| | A4 | Perak Tengah | Perak | Kg. Gajah |
| | A6 | Hilir Perak | Perak | Changkat Jong |
| | N3 | Kuala Pilah | N. Sembilan | Kuala Pilah |
| | J9 | Mersing dan Segamat | Johor | Segamat |
| | C4 | Pekan | Pahang | Pekan |
| | T1 | Kemaman | Terengganu | Kemaman |
| | T2 | Dungun | Terengganu | Dungun |
| | T5 | Kuala Terengganu | Terengganu | Kuala Terengganu |
| Jun 2014 | T2 | Dungun | Terengganu | Dungun |

Jadual 16 : Senarai Stesen Kebarangkalian Kering Berpandukan Analisis Hujan Bagi Bulan **April 2014**
(Senario 2 : Sekiranya Berlaku **Pertambahan 20% Kepada Purata Hujan Jangka Panjang** bagi Bulan Mei dan Jun 2014)

| BULAN | INDEKS STESEN | NAMA STESEN | DAERAH | NEGERI | KAWASAN KEBARANGKALIAN KERING |
|-----------------|---|---------------------------|---------------------|------------|-------------------------------|
| Mei 2014 | K3 | Stor JPS Alor Setar | Kota Setar | Kedah | Kota Setar |
| | J9 | Empangan Labong, Endau | Mersing dan Segamat | Johor | Segamat |
| | C4 | Rumah Pam Pahang Tua, | Pekan | Pahang | Pekan |
| | T1 | JPS Kemaman | Kemaman | Terengganu | Kemaman |
| | T2 | Sek. Men. Sultan Omar, | Dungun | Terengganu | Dungun |
| | T5 | Stor JPS Kuala Terengganu | Kuala | Terengganu | Kuala Terengganu |
| Jun 2014 | Kebarangkalian tidak ada berlaku keadaan kering di Semenanjung Malaysia | | | | |

Jadual 17 : Senarai Stesen Kebarangkalian Kering Berpandukan Analisis Hujan Bagi Bulan **April 2014**
(Senario 3: Sekiranya Berlaku **Pengurangan 20% Kepada Purata Hujan Jangka Panjang** bagi bulan Mei dan Jun 2014)

| BULAN | INDEKS STESEN | NAMA STESEN | DAERAH | NEGERI | KAWASAN KEBARANGKALIAN KERING |
|-----------------|---------------|-------------------------------|------------------|-------------|-------------------------------|
| Mei 2014 | K3 | Stor JPS Alor Setar | Kota Setar | Kedah | Kota Setar |
| | A4 | Kg. Pulau Besar | Perak Tengah | Perak | Kg. Gajah |
| | A6 | Rumah JPS Sg. Mengkuang | Hilir Perak | Perak | Changkat Jong |
| | N3 | Sg. Lui Halt | Kuala Pilah | N. Sembilan | Kuala Pilah |
| | J9 | Empangan Labong, Endau | Mersing dan | Johor | Segamat |
| | C4 | Rumah Pam Pahang Tua, Pekan | Pekan | Pahang | Pekan |
| | D6 | Ibu Bekalan To' Uban | Pasir Mas | Kelantan | Pasir Mas |
| | T1 | JPS Kemaman | Kemaman | Terengganu | Kemaman |
| | T2 | Sek. Men. Sultan Omar, Dungun | Dungun | Terengganu | Dungun |
| | T5 | Stor JPS Kuala Terengganu | Kuala Terengganu | Terengganu | Kuala Terengganu |
| Jun 2014 | D1 | Gunung Gagau | Gua Musang | Kelantan | Gua Musang |
| | T1 | JPS Kemaman | Kemaman | Terengganu | Kemaman |
| | T2 | Sek. Men. Sultan Omar, Dungun | Dungun | Terengganu | Dungun |
| | T5 | Stor JPS Kuala Terengganu | Kuala Terengganu | Terengganu | Kuala Terengganu |

3. Analisis Luahan Sungai

Rajah 5 di bawah menunjukkan bacaan purata luahan sungai yang dipantau bagi bulan April 2014.

| ID STESE N | NAMA STESEN | NEGERI | PARAS NORMAL SUNGAI (m) | PURATA PARAS SUNGAI BULAN MAC (m) | PURATA KADARALIR SUNGAI BULAN MAC (m ³ /s) | PURATA PARAS SUNGAI (m) | PURATA KADARALIR SUNGAI (m ³ /s) | KADARALIR KEMARAU TEMPOH ULANGAN UNTUK 7 HARI KADARALIR RENDAH (m ³ /s) | | | |
|------------|------------------------------------|--------|-------------------------|-----------------------------------|---|-------------------------|---|--|---------|----------|----------|
| | | | | | | | | 2-Tahun | 5-Tahun | 10-Tahun | 20-Tahun |
| 2527411 | SG.MUAR DI BULOH KASAP | JHR | 15.50 | 5.33 | 24.85 | 6.64 | 54.06 | 8.05 | 5.05 | 4.2 | 3.2 |
| 2130422 | SG .BEKOK DI BT.77 JLN Y.P | JHR | 5.94 | 3.03 | 0.72 | 3.2 | 1.75 | 1.88 | 0.73 | 0.35 | 0.14 |
| 1737451 | SG. JOHOR AT RANTAU PANJANG | JHR | 4.00 | 3.39 | 33.39 | 3.66 | 41.07 | 8.14 | 4.79 | 3.15 | 1.9 |
| 5606410 | SG. MUDA AT JAMBATAN SYED OMAR | KDH | 8.00 | 6.24 | 21.67 | 6.93 | 67.16 | 17.6 | 10.96 | 9.33 | 8.6 |
| 5721442 | SG.KELANTAN DI KUSIAL | KEL | 10.00 | 8.09 | 106.56 | 8.32 | 135.61 | 155.4 | 98.9 | 70.5 | 48.5 |
| 5320443 | SG.GALAS DI DABONG | KEL | 28.00 | 26.46 | 205.11 | 26.76 | 263.53 | 195.13 | 101.74 | 61.48 | 33.74 |
| 2519421 | SG. LINGGI AT SUA BETONG | N. S | 5.00 | 3.83 | 0.85 | 3.93 | 4.39 | 3.47 | 1.73 | 1.07 | 0.65 |
| 3519426 | SG.BENTONG DI KUALA MARONG | PHG | 86.00 | 85.81 | 11.67 | 85.94 | 13.54 | 2.77 | 1.64 | 1.16 | 0.83 |
| 4023412 | SG.PAHANG DI SUNGAI YAP | PHG | 44.00 | 43.87 | 385.27 | 45.54 | 820.47 | 104.52 | 51.78 | 32.16 | 20.05 |
| 3224433 | SG.TRIANG DI JAM.KERETAPI | PHG | 31.00 | 30.22 | 3.56 | 30.22 | 3.41 | 18.11 | 7.31 | 3.33 | 0.9 |
| 3424411 | SG.PAHANG DI TEMERLOH (LUBUK PASU) | PHG | 26.00 | 23.82 | 141.18 | 24.4 | 267.24 | 165.43 | 110.86 | 90.75 | 78.44 |
| 5505412 | SG.MUDA DI LADANG VICTORIA | P. P | 3.50 | 2.37 | 17.00 | 6.29 | 12.96 | 15.75 | 9.83 | 8.2 | 7.39 |
| 4911445 | SG.PLUS DI KG.LINTANG | PRK | 52.00 | 51.75 | 1.53 | 3.12 | 59.3 | 13.3 | 9.29 | 7.41 | 6.03 |
| 4809443 | SG.PERAK DI ISKANDAR BRIDGE | PRK | 32.00 | 31.76 | 130.47 | 52.78 | 34.33 | 122.65 | 68.94 | 45.49 | 29.16 |

| ID STESE N | NAMA STESEN | NEGERI | PARAS NORMAL SUNGAI (m) | PURATA PARAS SUNGAI BULAN MAC (m) | PURATA KADARALIR SUNGAI BULAN MAC (m3/s) | PURATA PARAS SUNGAI (m) | PURATA KADARALIR SUNGAI (m3/s) | KADARALIR KEMARAU TEMPOH ULANGAN UNTUK 7 HARI KADARALIR RENDAH (m3/s) | | | |
|------------|-------------------------------|--------|-------------------------|-----------------------------------|--|-------------------------|--------------------------------|---|---------|----------|----------|
| | | | | | | | | 2-Tahun | 5-Tahun | 10-Tahun | 20-Tahun |
| 5206432 | SG. KERIAN DI SELAMA | PRK | 10.00 | 7.22 | 2.09 | 31.71 | 126.67 | 10.13 | 6.09 | 4.21 | 2.84 |
| 2816441 | SG.LANGAT DI DENGKIL | SEL | 4.00 | 3.51 | 27.13 | 9.03 | 23.55 | 7.29 | 4.31 | 3.15 | 2.41 |
| 3813411 | SG.BERNAM DI JAMBATAN SKC | SEL | 16.60 | 16.11 | 24.44 | 3.77 | 47.62 | 15.79 | 12.17 | 10.88 | 10.12 |
| 3615412 | SG.BERNAM DI TANJUNG MALIM | SEL | 38.30 | 36.59 | 2.71 | 17.39 | 83.02 | 3.27 | 2.28 | 1.97 | 1.81 |
| 2917401 | SG.LANGAT DI KAJANG | SEL | 22.89 | 22.18 | 5.31 | 36.71 | 3.32 | 2.29 | 1.13 | 0.79 | 0.61 |
| 3414421 | SG.SELANGOR DI RANTAU PANJANG | SEL | 4.50 | 4.35 | 23.98 | 22.39 | 8.27 | 18.87 | 13.07 | 9.95 | 7.4 |
| 3118445 | SG.LUI DI KG. SG. LUI | SEL | 77.00 | 74.48 | 0.40 | 5.65 | 83.39 | 0.65 | 0.37 | 0.24 | 0.16 |
| 2918401 | SG.SEMENYIH DI RINCHING | SEL | 22.00 | 20.36 | 2.97 | 74.59 | 6.27 | 1.93 | 1.14 | 0.96 | 0.88 |
| 4832441 | SG.DUNGUN DI JAM.JERANGAU | TER | 7.00 | 4.33 | 0.88 | 20.39 | 3.26 | 26.84 | 12.81 | 6.12 | 1.14 |

Rajah 5 : Rekod Luahan Sungai Pada April 2014.

4. Analisis Storan Empangan

Rajah 6 di bawah menunjukkan aras air bagi empangan-empangan yang dipantau pada April 2014

| ID STESEN | NEGERI | NAMA EMPANGAN | NORMAL LEVEL (M) | MIN LEVEL (M) | MAX LEVEL (M) | ARAS AIR MIN (M) | ARAS AIR MAX (M) | ARAS AIR PURATA BULAN MAC (M) | ARAS AIR PURATA BULAN APR (M) | STORAN EMPANGAN (MCM) | STORAN EMPANGAN (%) |
|-----------|--------|--------------------------|------------------|---------------|---------------|------------------|------------------|-------------------------------|-------------------------------|-----------------------|---------------------|
| 1832401 | JHR | EMPANGAN MACHAP | 15.85 | 13.10 | 19.4 | 12.95 | 14.44 | 14.63 | 13.90 | 4.09 | 32.77 |
| 1931425 | JHR | EMPANGAN SEMBRONG | 10.00 | 6.00 | 13.8 | 8.45 | 8.65 | 8.69 | 8.54 | 18.0 | 58.90 |
| 2030401 | JHR | EMPANGAN BEKOK | 15.50 | 8.70 | 22.00 | 13.01 | 13.72 | 13.87 | 13.43 | 33.10 | 54.17 |
| 2536468 | JHR | EMPANGAN LABONG | 8.03 | 7.01 | 10.06 | 7.67 | 7.86 | 7.86 | 7.78 | 10.09 | 87.19 |
| 6397405 | KDH | EMPANGAN PADANG SAGA | 21.18 | 18.50 | 22.60 | 18.21 | 19.22 | 18.88 | 18.65 | 0.07 | 43.38 |
| 5907401 | KDH | EMPANGAN BERIS | 84.00 | 68.00 | 86.40 | 77.52 | 78.66 | 78.97 | 77.99 | 57.91 | 48.22 |
| 5919403 | KEL | EMPANGAN BUKIT KWONG | 16.76 | 12.20 | 17.72 | 13.75 | 14.62 | 15.26 | 14.16 | 4.49 | 32.59 |
| 6207480 | KDH | EMPANGAN PEDU | 97.56 | 67.07 | 97.56 | 88.49 | 91.40 | 90.29 | 89.91 | 662.19 | 61.31 |
| 6307480 | KDH | EMPANGAN AHNING | 105.70 | 101.90 | 114.00 | 99.99 | 102.49 | 102.98 | 101.88 | 164.39 | 60.04 |
| 6108480 | KDH | EMPANGAN MUDA | 94.50 | 82.20 | 103.30 | 90.85 | 92.45 | 92.34 | 91.74 | 48.11 | 31.13 |
| 2634402 | PHG | EMPANGAN ANAK ENDAU | 19.00 | 12.00 | 21.60 | 18.58 | 19.83 | 18.57 | 19.30 | 39.57 | 100 |
| 6502436 | PLS | EMPANGAN TIMAH TASOH | 29.10 | 25.30 | 30.10 | 27.18 | 27.26 | 27.37 | 27.22 | 18.74 | 47.02 |
| 4613401 | PRK | EMPANGAN ULU KINTA | 245.00 | 189.80 | 245.00 | 241.00 | 245.25 | 242.21 | 244.04 | 65.24 | 82.94 |
| 5006401 | PRK | EMPANGAN BUKIT MERAH | 8.70 | 6.40 | 9.80 | 6.67 | 8.09 | 7.77 | 7.22 | 34.51 | 43.66 |
| - | SEL | EMPANGAN LANGAT | 220.96 | 204.21 | 220.96 | 211.15 | 212.77 | 211.34 | 212.68 | 18.57 | 54.48 |
| - | SEL | EMPANGAN SUNGAI SELANGOR | 220.00 | 184.63 | 220.00 | 189.65 | 192.40 | 189.60 | 192.25 | 92.88 | 40.38 |
| - | SEL | EMPANGAN TASIK SUBANG | 37.87 | 34.75 | 37.87 | 37.56 | 37.74 | 37.68 | 37.65 | 3.62 | 86.08 |
| - | SEL | EMPANGAN SUNGAI TINGGI | 59.50 | 45.03 | 59.50 | 52.95 | 53.66 | 53.16 | 53.59 | 73.62 | 64.29 |

| ID STESEN | NEGERI | NAMA EMPANGAN | NORMAL LEVEL (M) | MIN LEVEL (M) | MAX LEVEL (M) | ARAS AIR MIN (M) | ARAS AIR MAX (M) | ARAS AIR PURATA BULAN MAC (M) | ARAS AIR PURATA BULAN APR (M) | STORAN EMPANGAN (MCM) | STORAN EMPANGAN (%) |
|-----------|--------|---------------------|------------------|---------------|---------------|------------------|------------------|-------------------------------|-------------------------------|-----------------------|---------------------|
| 3018402 | SEL | EMPANGAN SEMENYIH | 111.00 | 84.30 | 113.90 | 105.87 | 107.30 | 107.02 | 106.91 | 45.09 | 76.34 |
| 3216403 | WLY | EMPANGAN BATU | 102.70 | 79 | 107.3 | 99.16 | 99.76 | 99.83 | 99.37 | 25.12 | 78.56 |
| 3217435 | WLY | EMPANGAN KLANG GATE | 94 | 84 | 98 | 89.47 | 90.88 | 89.68 | 90.12 | 17.81 | 64.08 |
| - | N.SMN | EMPANGAN GEMENCHEH | 110 | 86 | 120 | 98.70 | 99.09 | 99.39 | 98.74 | 21.78 | 67.44 |

Rajah 6 : Rekod Aras Empangan Pada Bulan April 2014