

# FINAL REPORT



International Federation of Red Cross and Red Crescent Societies  
Fédération internationale des Sociétés de la Croix-Rouge et du Croissant-Rouge  
Federación Internacional de Sociedades de la Cruz Roja y de la Media Luna Roja  
الاتحاد الدولي لجمعيات الصليب الأحمر والهلال الأحمر

## **KENYA: FLOODS**

26 November 2002

*This Final Report is intended for reporting on emergency appeals*

*The Federation's mission is to improve the lives of vulnerable people by mobilizing the power of humanity. It is the world's largest humanitarian organization and its millions of volunteers are active in 178 countries. For more information: [www.ifrc.org](http://www.ifrc.org)*

*Appeal No. 14/02; Launched on 13 May, 2002 for 3 months for CHF 1,737,000 to assist 125,000 beneficiaries.*

*Disaster Relief Emergency Fund (DREF) Allocated: CHF 50,000*

### IN BRIEF

*Appeal coverage: 85%*

*Related Appeals East Africa regional programmes -- Annual Appeal no. 01.07/2002*

*Summary/Update: The activities planned in this appeal were implemented according to the objectives and within the specified time-frame. The remainder of the funding (CHF 46,000) will be used for ongoing disaster preparedness training and to replenish some of the emergency stocks used to respond to the disaster.*

### **Summary w**

The Kenya Red Cross actively participated in the mitigation of flooding in parts of Kenya that left 46 dead, 8 injured and more than 125,000 people displaced. The floods destroyed thousands of acres of crops, marooned villages and damaged houses from the ensuing landslides in some areas. The loss of household property and livestock is still being evaluated.

As predicted in the initial stage of the operation, water born diseases and malaria followed the heavy downpour. A Red Cross Action team from the Mombasa branch deployed to Shimoni, Kwale District reported cases of cholera which resulted in 3 deaths, 16 admissions for treatment, with a total of 114 patients treated and discharged at the local district hospital. In the Rift Valley and Western Kenya, malaria had already claimed 300 lives by the first week of July.

### **Operational Developments w**

The most affected areas were Tana River District in the Coast Province, Busia District in Western Province and Ijara District in North Eastern Province as a result of excess water being release from Masinga dam into River Tana. A total of 27,000 people were displaced in Tana River while over 40,000 people out of a total population of 75,000 were directly affected in Ijara District. It should be noted that Tana River had just come out of one of the worst droughts ever experienced in the past 30 years, and tribal clashes that resulted in the death of over 140 people. Tana River is also a food deficit district with poor infrastructure and records one of the lowest literacy rates in the country.

Nyanza and Western provinces were most affected at the beginning of the rainy season where Nyando, Kisumu, Rachuonyo and Busia districts suffering the most damages. Malaria took its toll in the area with very many cases of patients being admitted at the district hospitals.

A series of landslides affected the central districts of Meru, Muranga and Thika with 17 people including 9 children reported dead in the villages of Giumpu (Meru) and Gathunguri (Muranga). In Thika district, two landslides were reported on 12 May after torrential rains which necessitated the evacuation of 30 people by the provincial administration. In Gathugu village near Ndunyu Chege trading center, there was apprehension after a massive landslide swallowed more than five acres of coffee and tea bushes. As a result, more than 134 people from 8 homesteads in the area had to be evacuated to Ndunyu Chege Trading Polytechnic.

### Coordination w

The Kenya Red Cross was the first humanitarian organisation on the ground and worked closely with local government authorities in the affected areas to assist the victims. Donations for the operation were received from various local and international organisations. AMREF assisted in the distribution of mosquito nets, soaps, compact food and chlorine tablets within its designated area of operation. CRS Caritas provided boats to transport relief items to certain homesteads that were surrounded by water. Following the outbreak of malaria, Kenya Red Cross was involved in the distribution of mosquito nets and spray pumps to its branches in the affected areas while UNICEF donated the residual spray chemical.

### Objectives, activities and results w

With the support of the Federation and based on its capacity at the branch level, the Kenya Red Cross aimed to alleviate the suffering of about 25,000 victims of the flood through the provision of non food relief items. In co-operation with other organisations, the national society also aimed at preventing outbreaks of water borne diseases and to control the spread of malaria. The operation also aimed at increasing the disaster response capacity of the branches in the high risk areas.

### Relief distribution of food and basic non-food items w

*To provide shelter material for 25,000 families; distribute 50,000 blankets (2 per family); and 25,000 tarpaulins (1 per family).*

The Kenya Red Cross distributed a total of 400 cartons high energy biscuits; 14,404 blankets; 5,595 tarpaulins; 6 hospital tents; 4,776 mosquito nets; 100,000 water purification tablets; 200 kitchen sets; 2,000 jerry cans; 9,110 bars of soap; and 500 cartons of Cerelac to the affected districts.

A total of 6,075 families were provided with shelter materials through the Kenya Red Cross operation. Although there were no tented camps, the 5m x 4m tarpaulins provided proved sufficient accommodation for the displaced families for the entire duration. The last of the displaced families returned to their homes after 3 months when the water had subsided in the last of the affected districts. Table 1 below outlines the distribution per district.

**Table 1**

| Area           | Blankets (pcs) | Tarpaulins (Pcs) | Mosquito nets (Pcs) | M/nets treatment (sachets) | Soap (pcs) | Biscuit/ Ceralac (ctns) | Chlorine tabs (pcs) | Kitchen sets | Emergency kits |
|----------------|----------------|------------------|---------------------|----------------------------|------------|-------------------------|---------------------|--------------|----------------|
| Migori         | 2,000          | 1,400            | 120                 | 0                          | 300        | 0                       | 0                   | 0            | 0              |
| Margat Baringo | 750            | 370              | 80                  | 0                          | 500        | 20                      | 0                   | 0            | 0              |
| Meru           | 150            | 230              | 0                   | 0                          | 0          | 0                       | 0                   | 0            | 0              |
| Muranga        | 180            | 60               | 0                   | 0                          | 60         | 0                       | 0                   | 0            | 0              |
| Garissa        | 200            | 75               | 0                   | 0                          | 100        | 0                       | 0                   | 0            | 0              |
| Kisumu         | 680            | 800              | 1,500               | 1,500                      | 750        | 0                       | 25,000              | 0            | 0              |
| Athi River     | 100            | 50               | 0                   | 0                          | 0          | 0                       | 0                   | 0            | 0              |
| Ijara          | 1,500          | 0                | 1,500               | 1,500                      | 2,500      | 52                      | 20,000              | 100          | 1              |
| Tana River     | 5,600          | 700              | 1,700               | 1,000                      | 3,400      | 530                     | 20,000              | 100          | 1              |
| Busia          | 1,534          | 134              | 1,330               | 0                          | 3,400      | 100                     | 25,000              | 0            | 0              |
| Kericho        | 100            | 0                | 100                 | 0                          | 0          | 0                       | 0                   | 0            | 0              |
| Rachuonyo      | 510            | 556              | 0                   | 0                          | 0          | 0                       | 0                   | 0            | 0              |
| Nyando         | 1,700          | 1,700            | 0                   | 0                          | 0          | 0                       | 0                   | 0            | 0              |

| Area          | Blankets (pcs) | Tarpaulins (Pcs) | Mosquito nets (Pcs) | M/nets treatment (sachets) | Soap (pcs)    | Biscuit/Ceralac (ctns) | Chlorine tabs (pcs) | Kitchen sets | Emergency kits |
|---------------|----------------|------------------|---------------------|----------------------------|---------------|------------------------|---------------------|--------------|----------------|
| <b>Totals</b> | <b>15,004</b>  | <b>6,075</b>     | <b>7,830</b>        | <b>5,500</b>               | <b>11,040</b> | <b>802</b>             | <b>115,000</b>      | <b>200</b>   | <b>3</b>       |

**Health and care w**

**Malaria**

The western areas of the country and the coastal strip continued to receive rains until the beginning of July, which contributed to an increase of mosquito breeding sites. By the first week of July, malaria had claimed over 500 lives with the hardest hit districts being Kericho, Bureti, Nyamira, Kisii, Gucha and Nandi. The Ministry of Health declared a Malaria Epidemic in a total of 12 districts, which, in addition to the ones above, included Transmara, Uasin Gishu, Kisumu, Bomet, Baringo and Trans Nzoia.

In **Kericho district**, the district and sub-district hospitals recorded a total of 4,300 patients in the outpatient department with 2,251 admissions from malaria over the three months. There were 69 deaths reported out of which 40 died in the month of June alone. The congestion was so severe that 3 children were sharing one bed in the 20 bed paediatric ward at the District hospital.

In **Bureti** district, there were a total of 47,308 patients treated at the district hospital over the six months duration. A Red Cross team carried out spraying in boarding schools, shopping centres and homes and distributed 200 blankets and 100 mosquito nets to 9 health centres.

In **Nandi** district, a total of 27,137 people were treated for malaria in the month of June alone, while 1,169 people were admitted and 16 died. Within the first week of July, an additional 16 people had died. The overall figures over the whole six months came to 181 deaths, 103,6765 patients treated and discharged and 4,249 admissions.

A total of 21,031 malaria patients were treated and discharged in **Kisii district** hospital while 1,684 were admitted. In the first 10 days of July, 23 people had already died of malaria and at the end of the six months, the total number of deaths was 220. The epidemic also had a significant effect among pregnant women and resulted in 10 premature births out of 25 births in the mother to child ward. This was later attributed to the drugs used in case management.

In **Nyamira** district, 1200 people were attended to by June with 114 deaths reported. A total of 140 pregnant women were also diagnosed as having malaria. The local Kenya Red Cross branch in collaboration with the Ministry of Health sprayed most of the hospitals in the district with insecticides. A total of 13,932 malaria cases were attended to in **Gucha** district by June with 1,819 patients admitted and 113 confirmed dead.

Statistics from **Kisumu** district indicated that a total of 19,039 cases of malaria had been reported within the first three months of the year before the rains begun. Overall, a total of 26,264 malaria cases were reported over the period from April-June. Table 2 shows the total morbidity and mortality due to the malaria epidemic.

**Table 2**

| DISTRICT       | Out Patients | In Patient | Deaths |
|----------------|--------------|------------|--------|
| <b>Gucha</b>   | -            | -          | -      |
| June           | 13,932       | 2,819      | 113    |
| <b>Nandi</b>   | -            | -          | -      |
| July(1st week) | -            | 356        | 16     |
| June           | 27,137       | 1,169      | 16     |
| May            | 14,593       | 645        | 48     |
| April          | 17,002       | 741        | 27     |
| March          | 14,380       | 603        | 32     |
| February       | 14,720       | 501        | 15     |

|                    |                |               |            |
|--------------------|----------------|---------------|------------|
| January            | 15,843         | 590           | 27         |
| <b>Kisii</b>       | -              | -             | -          |
| July 10/7          | 631            | -             | 23         |
| June               | 21,037         | 1,684         | 52         |
| May                | 13,997         | 725           | 34         |
| April              | 11,804         | 592           | 36         |
| March              | 11,114         | 625           | 24         |
| February           | 11,737         | 674           | 29         |
| January            | 14,064         | 1,094         | 22         |
| <b>Kericho</b>     | -              | -             | -          |
| July 1-26          | 1,198          | 693           | 54         |
| June               | 2,458          | 1,307         | 37         |
| May                | 834            | 360           | 14         |
| <b>Bureti</b>      | -              | -             | -          |
| June               | 11,696         | -             | 6          |
| May                | 9,761          | -             | -          |
| April              | 7,059          | -             | -          |
| March              | 5,994          | -             | -          |
| February           | 6,441          | -             | -          |
| January            | 6,357          | -             | -          |
| <b>Nyamira</b>     | -              | -             | -          |
| July               | 2,128          | 2,004         | 15         |
| June               | 16,553         | 774           | 114        |
| <b>Tran Nzoia</b>  | -              | -             | -          |
| July               | 817            | 442           | 15         |
| June               | 1,189          | 625           | 25         |
| <b>Uasin Gishu</b> | -              | -             | -          |
| June               | 15,105         | -             | -          |
| <b>Kisumu</b>      | -              | -             | -          |
| June               | 29,599         | -             | 48         |
|                    | <b>319,180</b> | <b>19,023</b> | <b>842</b> |

(Source: Ministry of Health, Kenya Government)

Against this grim background, the Kenya Red Cross undertook preventive measures of distributing mosquito nets to district hospitals who were evidently overwhelmed by the influx of patients. Residual spray pumps were distributed to the branches to assist the public health officers in spraying breeding areas. Table 3 indicates the items distributed to the District Hospitals in Malaria affected areas.

**Table 3**

| Districts    | Tents    | Mosquito Nets | Cerelac   | Anti Malaria | Blankets     | Spray Pumps |
|--------------|----------|---------------|-----------|--------------|--------------|-------------|
| Kericho      | 1        | 200           | 15        | 0            | 300          | 10          |
| Bureti       | 1        | 200           | 10        | 2,100        | 200          | 10          |
| Kisii        | 1        | 200           | 10        | 0            | 200          | 10          |
| Nyamira      | 1        | 300           | 10        | 0            | 200          | 10          |
| Nandi        | 1        | 200           | 10        | 0            | 200          | 10          |
| Gucha        | 1        | 200           | 10        | 0            | 200          | 10          |
| Kisumu       | 0        | 200           | 10        | 0            | 200          | 10          |
| Uasin Gishu  | 0        | 200           | 10        | 0            | 200          | 10          |
| Migori       | -        | 120           | -         | -            | -            | 10          |
| Busia        | -        | 100           | -         | -            | -            | 10          |
| Kitale       | -        | 80            | -         | -            | -            | 10          |
| West Pokot   | -        | 75            | -         | -            | -            | 10          |
| Marakwet     | -        | 75            | -         | -            | -            | 10          |
| Baringo      | -        | 75            | -         | -            | -            | 10          |
| <b>TOTAL</b> | <b>6</b> | <b>2,225</b>  | <b>85</b> | <b>2,100</b> | <b>1,700</b> | <b>140</b>  |

### **Cholera**

Cases of cholera were reported at Shimoni in Kwale District of the Coast Province in the last week of July. A Red Cross Action team from Mombasa Branch reported 3 deaths from cholera, 16 admissions

and 114 patients treated and discharged at the local district hospital. The Kenya Red Cross set up two hospital tents in the compound of the local hospitals in Shimoni and Lunga Lunga, 1 drum of chlorine powder and 24,000 chlorine tablets. Kwale Branch volunteers actively assisted the Ministry of Health in cholera prevention activities.

### **Red Cross and Red Crescent Movement -- Fundamental Principles and priorities w**

Due to this operation, the communities in and around the operational areas have become familiar with the Red Cross better and appreciated the speedy and timely intervention to the victims of the disaster.

### **National Society Capacity Building**

The Kenya Red Cross was able to mobilise both material and financial resources from individuals and the corporate sector in the country. The Kenya Red Cross Society's good image with the government, local authorities, UN agencies and the public contributed significantly in their success to raise 25% of the appeal funds locally. The national society's profile was highly uplifted from the almost daily coverage of the floods intervention in both the local and international media which featured over 60 articles in the month of June. Due to the speed and impact the national society's intervention, the Secretary General was appointed Chairman of the Sudden Onset Disaster Committee of the Kenya Government. Good long term relationship between the Red Cross and the corporate world was also established during the operation.

### **Assessment and lessons learned**

In future, a memorandum of understanding (relief agreement) has to be signed at the initial stages of an operation to clarify roles and responsibilities of all parties involved. A lot of costs were incurred in transporting relief items from the Kenya Red Cross warehouse to the field for distribution. The national society therefore has to improve its logistic capacity in transport and warehouse management.

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*All International Federation Operations seek to adhere to the Code of Conduct and are committed to the Humanitarian Charter and Minimum Standards in Disaster Response (SPHERE Project) in delivering assistance to the most vulnerable.*

*This operation seeks to administer to the immediate requirements of the victims of this disaster. Subsequent operations to promote sustainable development or longer-term capacity building will require additional support, and these programmes are outlined on the Federation's website.*

*For further information concerning Federation operations in this or other countries, please access the Federation website at <http://www.ifrc.org>.*

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**INTERNATIONAL FEDERATION OF RED CROSS AND RED CRESCENT SOCIETIES**

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**Appeal No & title: 14/2002 Kenya floods**  
**Period: 2002 up to October**  
**Project(s): PKE515**  
**Currency: CHF**

**I - CONSOLIDATED RESPONSE TO APPEAL**

| FUNDING                                     | CASH           |               | KIND & SERVICES |           | TOTAL INCOME   |
|---|----------------|---------------|-----------------|-----------|----------------|
|   | Contributions  | Reallocations | Goods/Services  | Personnel |                |
| Appeal budget                               | 525,000        |               |                 |           |                |
| less  |                |               |                 |           |                |
| Cash brought forward                        |                |               |                 |           |                |
| <b>TOTAL ASSISTANCE SOUGHT</b>              | <b>525,000</b> |               |                 |           |                |
| <i>Contributions from Donors</i>            |                |               |                 |           |                |
| American Red Cross (DNUS)                   | 16,640         |               |                 |           | 16,640         |
| Canadian Govt. Red Cross Aid Trust (DGNCAD) | 68,681         |               |                 |           | 68,681         |
| Danish Red Cross (DNDK)                     | 3,000          |               |                 |           | 3,000          |
| Donor - Disaster Relief Emergency Fu (DREF) | 50,000         |               |                 |           | 50,000         |
| Finnish Red Cross (DNFI)                    | 14,763         |               |                 |           | 14,763         |
| Japanese Red Cross (DNJP)                   | 54,323         |               |                 |           | 54,323         |
| Swedish Govt.via Swedish Red Cross (DGNSE)  | 160,500        |               |                 |           | 160,500        |
| Danish RC                                   |                |               | 60,000          |           | 60,000         |
| Iranian RC                                  |                |               | 84,915          |           | 84,915         |
| <b>TOTAL</b>                                | <b>367,907</b> |               | <b>144,915</b>  |           | <b>512,822</b> |

**II - Balance of funds**

|                     |               |
|---------------------|---------------|
| Opening balance     |               |
| CASH INCOME Rcv'd   | 367,907       |
| CASH EXPENDITURE    | -321,110      |
|                     | -----         |
| <b>CASH BALANCE</b> | <b>46,797</b> |

**Appeal No & title: 14/2002 Kenya floods**

**Period: 2002 up to October**

**Project(s): PKE515**

**Currency: CHF**

**III - Budget analysis / Breakdown of expenditures**

| Description                         | Appeal Budget  | CASH Expenditures | KIND & SERVICES |           | TOTAL Expenditures | Variance       |
|-------------------------------------|----------------|-------------------|-----------------|-----------|--------------------|----------------|
|                                     |                |                   | Goods/services  | Personnel |                    |                |
| <u>SUPPLIES</u>                     |                |                   |                 |           |                    |                |
| Shelter & Construction              | 218,000        | 88,944            |                 |           | 88,944             | 129,056        |
| Clothing & Textiles                 |                | 83,320            |                 |           | 83,320             | -83,320        |
| Food/Seeds                          |                |                   |                 |           |                    |                |
| Water                               | 6,000          |                   |                 |           |                    | 6,000          |
| Medical & First Aid                 |                |                   |                 |           |                    |                |
| Teaching materials                  |                |                   |                 |           |                    |                |
| Utensils & Tools                    | 14,000         |                   |                 |           |                    | 14,000         |
| Other relief supplies               | 159,000        |                   | 144,915         |           | 144,915            | 14,085         |
| <b>Sub-Total</b>                    | <b>397,000</b> | <b>172,264</b>    | <b>144,915</b>  |           | <b>317,179</b>     | <b>79,821</b>  |
| <u>CAPITAL EXPENSES</u>             |                |                   |                 |           |                    |                |
| Land & Buildings                    |                |                   |                 |           |                    |                |
| Vehicles                            |                |                   |                 |           |                    |                |
| Computers & Telecom equip.          |                |                   |                 |           |                    |                |
| Medical equipment                   |                |                   |                 |           |                    |                |
| Other capital expenditures          |                |                   |                 |           |                    |                |
| <b>Sub-Total</b>                    |                |                   |                 |           |                    |                |
| <u>TRANSPORT &amp; STORAGE</u>      | 20,000         | 39,126            |                 |           | 39,126             | -19,126        |
| <b>Sub-Total</b>                    | <b>20,000</b>  | <b>39,126</b>     |                 |           | <b>39,126</b>      | <b>-19,126</b> |
| <u>PERSONNEL</u>                    |                |                   |                 |           |                    |                |
| Personnel (delegates)               | 15,000         | 27,236            |                 |           | 27,236             | -12,236        |
| Personnel (local staff)             | 15,000         | 15,248            |                 |           | 15,248             | -248           |
| Training                            |                |                   |                 |           |                    |                |
| <b>Sub-Total</b>                    | <b>30,000</b>  | <b>42,485</b>     |                 |           | <b>42,485</b>      | <b>-12,485</b> |
| <u>GENERAL &amp; ADMINISTRATION</u> |                |                   |                 |           |                    |                |
| Assessment/Monitoring/experts       |                |                   |                 |           |                    |                |
| Travel & related expenses           |                |                   |                 |           |                    |                |
| Information expenses                |                | 57                |                 |           | 57                 | -57            |
| Administrative expenses             | 20,000         | 25,365            |                 |           | 25,365             | -5,365         |
| External workshops & Seminars       |                |                   |                 |           |                    |                |
| <b>Sub-Total</b>                    | <b>20,000</b>  | <b>25,423</b>     |                 |           | <b>25,423</b>      | <b>-5,423</b>  |
| <u>PROGRAMME SUPPORT</u>            |                |                   |                 |           |                    |                |
| Programme management                | 35,000         | 25,628            |                 |           | 25,628             | 9,372          |
| Technical services                  | 11,000         | 7,673             |                 |           | 7,673              | 3,327          |
| Professional services               | 12,000         | 8,512             |                 |           | 8,512              | 3,488          |
| <b>Sub-Total</b>                    | <b>58,000</b>  | <b>41,812</b>     |                 |           | <b>41,812</b>      | <b>16,188</b>  |
| Operational provisions              |                |                   |                 |           |                    |                |
| Transfers to National Societies     |                |                   |                 |           |                    |                |
| <b>TOTAL BUDGET</b>                 | <b>525,000</b> | <b>321,110</b>    | <b>144,915</b>  |           | <b>466,025</b>     | <b>58,975</b>  |