NEPAL

Terai Flood | August 2017

A REPORT ON FOOD SECURITY IMPACT OF 2017 FLOOD IN TERAI

Based on the results of ad hoc District Food Security Network (DFSN) meetings in 10 districts (23-29 August 2017)











Background

Heavy monsoon rainfall during 10-13 August 2017 triggered severe flash floods and landslides in 32 out of 75 districts in Nepal (see **Figures 1** and **2**). An Initial Rapid Assessment conducted in 28 districts revealed that floods and landslides claimed 141 lives, injured 117 persons, displaced 460,900 people, and left 24 missing. Damage to houses, infrastructures, and productive resources was severe; roughly 65,000 houses were completely destroyed and 120,100 houses were partially damaged (Nepal Red Cross Society, IRA Compilation Report, 20 August 2017).

The southern Terai plains were critically affected by the floods and experienced severe humanitarian implications in terms of damage to houses, displacement, food security, health and sanitation, access to basic services, and losses in agricultural production. The Ministry of Agricultural Development (MoAD) has estimated 57 million USD in losses of major crops in 30 districts, of which approximately 56.7 million USD in losses occurred in Terai districts. A quick nutrition assessment conducted by the Nutrition Cluster and District Public Health Offices reported high levels of undernutrition (wasting) in the flood-affected Terai districts.

NeKSAP undertook a 72-hour assessment of the flood using satellite images, the IRA, secondary data, and field information. The results indicated that Saptari, Rautahat, Mahottari, Bardiya and Banke were most flood-affected districts, followed by Sarlahi, Siraha, Parsa and Dhanusha (Nepal Terai Flood Update Version 2.0).

NeKSAP also undertook a detailed assessment of the flood impacts on food security through ad hoc DFSN meetings in 10 flood affected districts (Banke, Bardiya, Rautahat, Sarlahi, Mahottari, Dhanusa, Siraha, Saptari, Sunsari, and Morang) during 23-29 August 2017. This report presents the results of ad hoc DFSN meetings.

Map 1: Coverage of ad hoc DFSN meetings (23-29 August 2017)



Figure 1: Water level of Babai river at Chepang. Source: DHM



Figure 2: Rainfall recorded in Chepang station*. Source: DHM



* Warning level for rainfall: 60 mm in 1 hour, 80 mm in 3 hours, 100 mm in 6 hours, 120 mm in hrs, and 140 mm in 24 hours. Source: DHM <u>www.hydrology.gov.np</u>

Highlights

Based on the post-flood situation, the ad hoc DFSN meetings in 10 Terai districts classified each VDC/municipality as minimally food insecure (Phase 1), moderately food insecure (Phase 2), highly food insecure (Phase 3), or severely food insecure (Phase 4). None of the VDCs/municipalities were classified as a humanitarian emergency (Phase 5) situation.

DFSNs classified 504 VDCs/municipalities (nearly 70 percent of 727 VDCs/municipalities) as moderately food insecure or worse in 10 Terai districts (see **Map 2**). The breakdown of the DFSN classifications are as follows:

- 8 VDCs of Saptari as severely food insecure (Phase 4)
- 215 VDCs and municipalities as highly food insecure (Phase 3)
- 281 VDCs and municipalities as moderately food insecure (Phase 2)
- 233 VDCs and municipalities as minimally food insecure (Phase 1)

Refer to Annex 1 for district-wide food security phase maps and affected populations for the 10 Terai districts.

The latest round of regularly conducted DFSN meetings (held every four months) in July 2017 classified all Terai districts as minimally food insecure, or Phase 1 (see Annex 2).

DFSNs estimated that roughly **709,500 people** were in Phase 3 and Phase 4 VDCs, and required external assistance to meet food and non-food needs. This is about **42 percent** of the total population in the flood-affected areas and 10 percent of the total district population. The next round of DFSN meetings will be held in mid-November. Until then, DFSNs anticipate that the food security situation will improve in Sarlahi and Rautahat, but continue in the current food security state in the remaining 8 districts if affected households do not receive external assistance.



Table 1: Number of VDCs and municipalities in Phases 1-4 and the affected population*

| | | | Current situation (23-29 August, 2017) | | | | | | Outlook (late | August to mid-N | November 2017) |
|----|-----------|-------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| SN | Districts | Total VDCs/ municipalities | | No of VDCs in Phase 2 | No of VDCs in Phase 3 | Population in Phase 3 | No of VDCs in Phase 4 | Population in Phase 4 | No of VDCs in Phase 1 | No of VDCs in Phase 2 | No of VDCs in Phase 3 |
| 1 | Morang | 66 | 43 | 19 | 4 | 23,600 | 0 | Na | 43 | 19 | 4 |
| 2 | Sunsari | 52 | 25 | 18 | 9 | 42,000 | 0 | Na | 25 | 18 | 9 |
| 3 | Saptari | 97 | 26 | 47 | 16 | 45,600 | 8 | 29,700 | 26 | 47 | 24 |
| 4 | Siraha | 70 | 34 | 21 | 15 | 50,000 | 0 | Na | 34 | 21 | 15 |
| 5 | Dhanusa | 102 | 8 | 66 | 28 | 54,200 | 0 | Na | 8 | 66 | 28 |
| 6 | Mahottari | 77 | 9 | 29 | 39 | 88,700 | 0 | Na | 9 | 29 | 39 |
| 7 | Sarlahi | 100 | 29 | 31 | 40 | 107,700 | 0 | Na | 29 | 56 | 15 |
| 8 | Rautahat | 96 | 5 | 42 | 49 | 163,200 | 0 | Na | 5 | 69 | 22 |
| 9 | Banke | 35 | 20 | 5 | 10 | 45,300 | 0 | Na | 20 | 5 | 10 |
| 10 | Bardiya | 32 | 24 | 3 | 5 | 59,500 | 0 | Na | 24 | 3 | 5 |
| | Total | 727 | 223 | 281 | 215 | 679,800 | 8 | 29,700 | 223 | 333 | 171 |

* Affected population is estimated as the population in Phase 3 and Phase 4.

Population in Phase 3 — 679,800

Population in Phase 4 – 29,700

Affected population – 709,500

Key contributing factors

Most of the houses in the affected areas were made of poor structural materials, such as unbaked brick and bamboo, which were not capable of withstanding floods. The 2011 National Population and Housing Census reported that 60-70 percent of houses in Morang, Sunsari, Siraha, Saptari, Dhanusha, Mahottari, Sarlahi and Rautahat, and 20-40 percent of houses in Banke and Bardiya were built with poor structural materials. These houses in particular were destroyed and/or damaged due to floods.

Wheat, the major winter crop in the Terai, was harvested in April/May. The floods damaged household food stocks, which comprise the major source of food consumption in the Terai. DFSNs reported that, on average, 30-60 percent of the household food stocks were completely lost and/or rotten in most places. The situation was even worse in the 8 VDCs of Saptari classified as Phase 4, where more than 80 percent of households lost their entire food stocks.

The next major cereal harvest of paddy will take place in November/December. With food stocks destroyed by floods, affected families are expected to face food consumption gaps. The situation will be even more precarious during the Dashain/Tihar festival (in October), during which food consumption is typically high.

Standing crops (paddy and vegetable) and fish ponds have been severely damaged and/or wiped away. MoAD's latest estimates report crop (including fish) damage of 44.4 million USD, of which 12.4 million USD, 9.0 million USD, and 12.08 million USD in damage is attributed to paddy, vegetable and fish, respectively.

Despite the high initial damage to market infrastructures, markets quickly resumed functioning. As of 28 August 2017, 481 markets were fully functioning and 77 markets were recovering. Some 40 VDCs were inaccessible in flood-affected districts, including 16 in Dhanusha, 13 in Mahottari, 6 in Rautahat, 1 in Saptari, and 3 in Banke. However, in the wholesale and Indian border markets, food and non-food commodities were available and prices were stable (Terai Flood Update Version 2.0, NeKSAP, 28 August 2017).

DFSNs reported a food price increase of 15-20 percent, largely due to supply chain offsets. Prices of vegetables were reported to have increased by about 5 times because of the large-scale damage caused during the harvesting period.

The nutrition, health and sanitation situation in the post-flood period was reported as poor. The MUAC assessment of 10,257 children between 6-59 months of age undertaken by the Nutrition Cluster in 18 flood-affected districts showed high rates of acute child malnutrition. Average rates of Severe Acute Malnutrition (SAM), Moderate Acute Malnutrition (MAM), Global Acute Malnutrition (GAM) in the flood-affected districts were 6.0 percent, 17.1 percent and 23.1 percent, respectively, while the national averages were 1.8 percent, 7.9 percent and 9.7 percent. The highest GAM rates were observed in Mahottari (14.7 percent), Rautahat (15 percent), Siraha (34.3 percent), Dhanusa (16.84 percent), and Saptari (35.7 percent) (Nutrition Cluster and District Public Health Offices).

Figure 3 shows the pre-flood prevalence of food poverty and wasting (children under 5 years of age) in the 10 flood-affected districts. As shown in the figure, food poverty and wasting rates were already high and the acute shock will further exacerbate the situation.



Figure 3: Prevalence of food poverty and wasting. Source: Small area estimate of food insecurity and undernutrition in Nepal. 2014

Outlook

District Food Security Networks, based on current conditions and future scenarios, have forecasted the likely food security situation for the period of late August to mid-November 2017.

Overall, DFSNs anticipate that the food security situation will improve in Sarlahi and Rautahat, but continue in the current food security state in the remaining 8 districts if affected households do not receive external assistance

DFSNs reported that the situation in severely food insecure (Phase 4) VDCs will slightly improve (to Phase 3), the number of highly food insecure (Phase 3) VDCs will decrease to 171 (from 215), and the number of moderately food insecure (Phase 2) VDCs will increase to 333 (from 281). The number of minimally food insecure VDCs will, however, remain as same.

DFSNs attributed the outlook largely to large-scale damage to assets, infrastructure and productive resources (e.g. crops, livestock, fish ponds, crop fields etc.), which require substantial time and resources to restore and recover.

August-November is typically a lean season period when no major cereal crops are harvested in the Terai. As previous household stocks of wheat (harvested in April/May) were washed away, households are expected to face severe food consumption gaps. Because of erratic rainfall during paddy transplantation (before 10 August) and damage caused to the standing crop, production prospect for paddy also appear bleak for 2017.

MoAD estimates (as of 1 August 2017) suggest average paddy transplantation rates of 62 percent in eastern Terai districts. The transplantation rates for Siraha, Dhanusha, Mahottari, Sarlahi, and Banke were reported to be worse, at 39 percent, 40 percent, 36 percent, 50 percent, and 30 percent, respectively.

Affected households are expected to rely on relief support, and make increasing use of remittances for consumption. Income for daily wages will also contribute to food security, but at a marginal level.

Methodology

DFSNs used the NeKSAP Integrated Food Security Phase Classification (IPC) exercise to classify each of the VDCs and municipalities into five different phases (see **Table 2** for the descriptions of phases).

Technical Working Group (TWG) meetings undertook preliminary analysis of the food security situation using 17 NeKSAP IPC indicators (3 outcome indicators and 14 contributing factors) to assign a phase classification to each VDC and municipality.

In addition to local expert knowledge, TWGs also referred to the Initial Rapid Response (IRA) during the phase classification exercise.

Results of the phase classification exercise were shared at the DFSN meeting for further scrutiny, validation and endorsement.

Table 2: Description of NeKSAP IPC Phases

| Phase | NeKSAP Phases | Equivalent phases IPC v2 | Description |
|-------|--|-----------------------------|---|
| 1 | Minimally Food Insecure | Minimal | Households with secure food and non-food needs without shifting or changing livelihood strategies. These households are capable of adjusting to small scale stresses caused by hazards, disasters, shocks, epidemics and conflicts or violence by means of existing social, natural and economic capital. |
| 2 | Moderately Food Insecure (or Stressed) | Stressed | Households meet minimal food needs with traditional coping strategies, but are unable to afford some essential non-food expenditures without engaging in irreversible coping strategies. |
| 3 | Highly Food Insecure (or Crisis) | Crisis | Households experience food consumption gaps and high or above usual acute malnutrition, or meet minimal food needs only with accelerated depletion of livelihood assets - leading to food consumption gaps. |
| 4 | Severely Food Insecure (or Emergency) | Emergency | Households unable to meet food and non-food needs without losing livelihood assets. This induces very high acute malnutrition leading to high morbidity, mortality and shortened life expectancy. Probable high level of violence and movement restriction due to conflict. Some immediate inter- ventions and assistance required. |
| 5 | Humanitarian Emergency (or Declared Fam- ine) | Famine | Almost all households have an extreme lack of food and other basic needs where starvation, destitution, irreversible loss of capital resources and loss of lives are evident. Households of the whole areas are challenged by acute shortage of food and other basic needs - hazards, disasters, epidem- ics or destruction of infrastructure, disturbances of services. Immediate humanitarian assistance required. |

Annex 1: District-wise phase maps and affected population

| BANKE | PAGE 8 |
|-----------|---------|
| BARDIYA | PAGE 8 |
| DHANUSA | PAGE 9 |
| MAHOTTARI | PAGE 9 |
| SAPTARI | PAGE 10 |
| SIRAHA | PAGE 10 |
| RAUTAHAT | PAGE 11 |
| MORANG | PAGE 11 |
| SARLAHI | PAGE 12 |
| SUNSARI | PAGE 12 |





| | Banke | |
|--------------------|--------------------------------|--------------------------|
| VDCs in Phase 3 | 2017 population (projected) | Population in Phase 3 |
| Baijapur | 13,052 | 6,500 |
| Bankatti | 6,619 | 3,300 |
| Betahani | 8,688 | 4,300 |
| Binauna | 7,825 | 3,900 |
| Gangapur | 6,585 | 3,300 |
| Holiya | 6,713 | 3,400 |
| Kachanapur | 9,453 | 4,700 |
| Matehiya | 8,260 | 4,100 |
| Narainapur | 5,449 | 2,700 |
| Phattepur | 18,107 | 9,100 |
| TOTAL | 90,751 | 45,300 |

| | Bardiya | |
|----------------------------|--------------------------------|--------------------------|
| VDCs in Phase 3 | 2017 population (projected) | Population in Phase 3 |
| Baniyabhar | 18,870 | 9,400 |
| Gulariya munici- pality | 59,494 | 29,700 |
| Magaragadi | 20,205 | 10,100 |
| Mahamadpur | 11,667 | 5,800 |
| Padanaha | 9,087 | 4,500 |
| TOTAL | 119,323 | 59,500 |



| | Dhanusa | | | wanottari | | |
|-----------------------|-------------------------|-------------------------------------|--------------------------|----------------------------------|-------------------------------------|--------------------------|
| the the second second | VDCs in Phase 3 | 2017 popula- tion (projected) | Population in Phase 3 | VDCs in Phase 3 | 2017 popula- tion (projected) | Population in Phase 3 |
| | Mukhiyapatti Mu- | | 4,700 | Jaleshwor Munici- pality | 25115 | 6,400 |
| | | | | Ankar | 6052 | 1,500 |
| | Bisarmora | 5237 | 2,100 | Suga-vawanipatti | 7255 | 2,200 |
| | Baheda Bela | 7452 | 2,200 | Fulhatta-Parikauli | 6338 | 1,600 |
| | Lakkad | 4366 | 1,800 | Parsa Pateli | 3855 | 1,600 |
| | Lagmagadhaguthi | 5688 | 1,300 | Simardahi | 5482 | 1,400 |
| | Dhanauji | 9528 | 2,900 | Mahottari | 11287 | 2,900 |
| | Inarwa | 3561 | 1,100 | Nainhi | 8968 | 2,300 |
| | | | | Halkhori | 6438 | 1,400 |
| | Kanakpatti | 5998 | 1,300 | Bathanaha | 10295 | 2,300 |
| | Mahuwa (Pra. | 5178 | 1,600 | Sisawakataiya | 8179 | 2,500 |
| / Networks, | Khe.) | 51/0 | 1,000 | Ekadarabela | 11003 | 3,400 |
| | Khajuri Chanha | 6376 | 1,900 | Pipra Elementina | 10003 | 2,600 |
| | Machijhitkaiya | 9902 | 3,000 | Ekarahiya Bramarpura | 10627 10094 | 3,300 2,600 |
| | Patanuka | 3721 | 900 | Braffar pura Badiya Banchauri | 7222 | 2,800 |
| | | | | Gonarpura | 7637 | 2,200 |
| | Balaha Kathal | 3634 | 900 | Sandha | 4784 | 1,200 |
| | Singyahi Maidan | 9925 | 4,000 | Sarpallo | 10540 | 3,200 |
| | Harine | 5390 | 1,600 | Kolhuwa Bageya | 8907 | 2,300 |
| | Gopalpur | 5409 | 1,400 | Manara | 7390 | 1,700 |
| | Ballagoth | 4571 | 1,600 | Sonaul | 4477 | 1,000 |
| | - | 4371 | 1,000 | Balawa | 8637 | 2,600 |
| | Dubarikot Hathiletwa | 7336 | 1,800 | Paraul | 7276 | 2,600 |
| | | | | Banouta | 6844 | 1,700 |
| | Baghchaura | 6284 | 1,600 | Damhimarayee Loharpatti | 10350 8800 | 2,600 |
| | Duhabi | 7493 | 2,300 | Singyahi | 8800 8830 | 2,200 2,700 |
| | Tulsiyahi Jabdi | 4694 | 1,900 | Hatisarwa | 7287 | 2,200 |
| | Thadi Jhija | 7782 | 2,300 | Pigouna | 3834 | 1,000 |
| | Nagaraeen | 6613 | 1,500 | Bhatauliya | 4937 | 1,500 |
| | - | | | Matihani | 10314 | 3,200 |
| | Tulsiyahi Nikas | 4694 | 1,200 | Etaharwakatti | 7366 | 1,500 |
| | Balaha Sadhara | 4301 | 1,300 | Basabitti | 6841 | 1,700 |
| | Deuri Parbaha | 4598 | 1,600 | Vagaha | 13960 | 4,300 |
| | Dhanusadham | 9244 | 2,000 | Dhirapur | 10192 | 2,600 1,600 |
| | | | | Sahorawa Ratauli | 6156 6241 | 1,600 1,600 |
| curity Networks, | Dhanusha Go- | 9442 | 2,400 | Banauli Donauli | 4885 | 1,000 |
| | TOTAL | 176,266 | 54,200 | TOTAL | 324,698 | 88,700 |

Mahottari

Dhanusa





| Legend | Remain Amount of the second of |
|---|---|
| Cegend Tool Security Phase Classification 1 Minimally Food Insecure 2 Moderately Food Insecure (or Stressed) 3 Highly Food Insecure (or Crisis) | |
| | 0 10 20 40 Km |
| Administrative Boundaries | Data sources: 1. Nepa Food Security Monitoring System/Nepal Khadhya Surukshya Anugaman Pranali (NeKSAP), District Food Security Networks, Workd Food Programme, Nepal and Ministry of Agricultura Development, Government of Nepal August 2017 2. Department of Survey, Government of Nepal, 1996 |

| Saptari | | | VDCs in Phase 3 | 2017 popula- tion | Population in Phase 3 |
|---|-------------|--|-----------------------------|---|--------------------------|
| | 2017 popu- | Population | | LIOII | in Phase 3 |
| | lation | in Phase 4 | Bakdhauwa | 8,927 | 4,500 |
| | (projected) | | Baramjhiya | 4,995 | 2,500 |
| Bamangamakatti | 8,610 | 6,000 | Bhardaha | 7,603 | 3,800 |
| Barsain (Ko.) | 5,825 | 4,100 | Bishahariya | 7,599 | 3,800 |
| Koiladi | 5,040 | 3,500 | Deuri | 5,056 | 2,500 |
| Launiya | 3,756 | 2,600 | Didhawa | 4,535 | 2,300 |
| Mainakaderi | 3,421 | 2,400 | Diman | 4,571 | 2,300 |
| Sankarpura | 4,673 | 3,300 | Farseth | 3,751 | 1,900 |
| Rampuramalhaniya | 7,242 | 5,100 | Goithi | 4,003 | 2,000 |
| Filathi | 3,868 | 2,700 | Hanumannagar | 22,321 | 3,300 |
| TOTAL | 42,435 | | yoginimai munic- ipality | | |
| | , | | Hariharpur | 4,943 | 2,500 |
| | | | Ko. Madhepura | 4,918 | 2,500 |
| | | | Lohajara | 5,944 | 3,000 |
| | | | Portaha | 5,527 | 2,800 |
| | | | Trikaula | 5,549 | 2,800 |
| | _ | | Madhawapur | 6,115 | 3,100 |
| Siraha | | | TOTAL | 106,357 | 45,600 |
| VDCs in Phase | 3 2017 | population (| projected) Po | opulation in P | hase 3 |
| Arnamarampur | | 3,766 | | 2,300 | |
| Belhi | | 6,659 | | 2,600 | |
| Bhokraha | | | | | |
| Bishnupur Pra.Ra | | 1,875 | | 1,100 | |
| Chartant | a | 1,875 5,357 | | 1,100 3,200 | |
| Chatari | 3 | | | | |
| Chatari Chikana | 3 | 5,357 2,893 | | 3,200 1,700 | |
| | 3 | 5,357 | | 3,200 1,700 2,300 | |
| Chikana | 1 | 5,357 2,893 3,885 4,111 | | 3,200 1,700 2,300 2,500 | |
| Chikana Dumari Itari Parsahi | | 5,357 2,893 3,885 4,111 4,380 | | 3,200 1,700 2,300 2,500 2,600 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi | | 5,357 2,893 3,885 4,111 4,380 10,228 | | 3,200 1,700 2,300 2,500 2,600 6,100 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi Majhauliya | | 5,357 2,893 3,885 4,111 4,380 10,228 4,961 | | 3,200 1,700 2,300 2,500 2,600 6,100 3,000 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi Majhauliya Bhedia | | 5,357 2,893 3,885 4,111 4,380 10,228 4,961 4,487 | | 3,200 1,700 2,300 2,500 2,600 6,100 3,000 2,700 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi Majhauliya Bhedia Badharamal | | 5,357 2,893 3,885 4,111 4,380 10,228 4,961 4,487 17,590 | | 3,200 1,700 2,300 2,500 2,600 6,100 3,000 2,700 10,600 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi Majhauliya Bhedia Badharamal Gautari | i | 5,357 2,893 3,885 4,111 4,380 10,228 4,961 4,487 17,590 3,937 | | 3,200 1,700 2,300 2,500 2,600 6,100 3,000 2,700 10,600 2,400 | |
| Chikana Dumari Itari Parsahi Kalyanpur Jabadi Majhauliya Bhedia Badharamal | i | 5,357 2,893 3,885 4,111 4,380 10,228 4,961 4,487 17,590 | | 3,200 1,700 2,300 2,500 2,600 6,100 3,000 2,700 10,600 | |



11

TOTAL

55,958

23,600



| VDCs in Phase 3 | 2017 popu- lation | Population in Phase 3 | VDCs in Phase 3 | 2017 popula- tion | Populatior in Phase 3 |
|----------------------|----------------------|--------------------------|--------------------|----------------------|--------------------------|
| Belhi | 3,794 | 1,900 | Barahathawa | 19,371 | 5,800 |
| Bhadsar | 4,239 | 1,900 | Belwa Jabdi | 6,188 | 2,200 |
| Bhelhi | 4,892 | 2,500 | Bhagawatipur | 4,612 | 1,600 |
| Chhataul | 6,892 | 3,800 | Chhatona | 3,541 | 1,600 |
| Godeta | 7,129 | 3,200 | Dumariya | 4,971 | 1,700 |
| Harakthawa | 6,037 | 2,700 | Kaudena | 8,053 | 2,800 |
| Hathiyol | 9,135 | 5,000 | Khutauna | 5,222 | 1,600 |
| Khirwa | 12,613 | 6,900 | Madhubangoth | 6,341 | 2,200 |
| Mahinathpur | 3,829 | 2,100 | Madhubani | 4,544 | 1,600 |
| Manpur | 9,489 | 4,800 | Rohuwa | 3,310 | 1,200 |
| Ramnagar Bahuarwa | 7,118 | 3,900 | Sikhauna | 5,275 | 2,100 |
| Sakraul | 5,308 | 2,400 | Sisotiya | 10,422 | 4,200 |
| Simara | 9,525 | 4,300 | Sisout | 8,502 | 3,800 |
| Sudama | 4,469 | 2,000 | Batraul | 5,209 | 2,100 |
| Sundarpur | 8,060 | 3,200 | Fulparasi | 3,972 | 1,600 |
| Achalgadh | 4,130 | 1,700 | Mirjapur | 4,896 | 2,000 |
| Arnaha | 4,241 | 1,900 | Ramban | 5,283 | 1,800 |
| Bagdaha | 7,250 | 2,900 | Gadahiyabairi | 7,111 | 2,500 |
| Bahadurpur | 2,154 | 900 | Tribhuwan | 3,847 | 1,500 |
| Balara | 8,160 | 3,700 | τοτοι | 254 470 | 107 700 |
| Bara Udhoran | 5,336 | 2,100 | TOTAL | 254,470 | 107,700 |

Sunsari

| VDCs in Phase 3 | 2017 population (projected) | Population in Phase 3 | VDCs in Phase 3 | 2017 population (projected) | Population in Phase 3 |
|--------------------|--------------------------------|--------------------------|--------------------|--------------------------------|--------------------------|
| Amaduwa | 9,835 | 4,000 | Haripur | 12,842 | 6,000 |
| Basantapur | 6,088 | 2,600 | Kaptanganj | 9,633 | 4,600 |
| Dewanganj | 7,987 | 3,700 | Narsinghatappu | 22,512 | 10,300 |
| Ghuskee | 11,666 | 5,200 | Sahebganj | 4,337 | 2,000 |
| Harinagara | 8,346 | 3,600 | TOTAL | 93,246 | 42,000 |

Annex 2: NeKSAP Integrated Food Security Phase Classification, July, 2017. Source: DFSN

