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# **ISDB-T HARMONIZATION DOCUMENT**

## **PART 3: Emergency Warning Broadcast System EWBS**

**(November/2015)**

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The documentation herein described is currently presented for revision of the contact points of the Working Group on Harmonization of the ISDB-T International Forum.

## **FOREWORD**

This document is the outcome of the joint efforts of the countries that have adopted the ISDB-T Standard under the standardization and technical cooperation activities of the ISDB-T International Forum. Participants agree on the relevance of enhancing the interoperability and conformity of ISDB-T systems and commit to maximizing the commonality of the technical specifications.

This document has no standardization value. Its purpose is to serve as a quick reference for characterizing the specifications of digital terrestrial television in the participant countries. It does not describe the industrial property rights mandatory to these standards, and no reference is made to the domestic policies of the countries.

This document is drafted in accordance with the rules established in the ISO/IEC Directives, Part 2.

### **List of participants**

As of November 2015, the countries participating in the ISDB-T International Forum are listed below:

ARGENTINA  
BOLIVIA  
BOTSWANA  
BRAZIL  
COSTA RICA  
CHILE  
ECUADOR  
GUATEMALA  
HONDURAS  
JAPAN  
MALDIVES  
NICARAGUA  
PARAGUAY  
PHILIPPINES  
PERU  
SRI LANKA  
URUGUAY  
VENEZUELA



# **ISDB-T Harmonization document for digital terrestrial television**

## **Part 3: Emergency Warning Broadcast System (EWBS)**

### **1 Scope**

This document summarizes the common rules of the emergency warning broadcast system (EWBS) that apply to the participant ISDB-T countries. The EWBS comprises the signals transmitted by the broadcast stations and their interpretation by compliant receivers.

The purpose of this document is to clarify the technical and operational guideline of EWBS. The question as to whether an EWBS function would be mandatory or not in general ISDB-T receivers is outside the scope of this document. Such a decision shall be made after careful evaluation; that is, an adequate feasibility study by the responsible agency in each country and the development of sustainable receivers by manufacturers would be done together.

This document was produced based on Japan's EWBS operational rules, with some modifications, in order to meet the requirements of other countries. Because Japan is already operating EWBS according to its original standard, Japan is the exception for application of this harmonization document.

### **2 Normative References**

The following referenced documents are essential for application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ABNT NBR 15604:2008, *Digital terrestrial television – Receivers*

ABNT NBR 15606, *Digital terrestrial television — Data coding and transmission specification for digital broadcasting*

ABNT NBR 15608-3, *Digital terrestrial television — Operational guideline — Part 3: Multiplexing and service information (SI)*

ARIB STD-B10:2008, Service information for digital broadcasting system

ARIB STD-B21:2007, *Receiver for digital broadcasting*

ARIB STD-B24:2008, *Data coding and transmission specification for digital broadcasting*

ARIB STD-B31:2005, *Transmission system for digital terrestrial television broadcasting*

ARIB TR-B14:2006, *Operational guidelines for digital terrestrial television broadcasting*

Harmonization document between ABNT NBR 15604 and ARIB STD- B21:2009, *Digital terrestrial television broadcasting – Receivers*

### **3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

#### **3.1**

##### **Activation flag**

Information contained in the Transmission and Multiplexing Configuration Control signal (TMCC) for the activation of EWBS

### **3.2**

#### **Emergency information**

Information related to the emergency notification sent by broadcast stations

### **3.3**

#### **Emergency information descriptor**

Information contained in the Program Map Table (PMT) that specifies emergency information. Additionally, the emergency information descriptor information may also be contained in the Network Information Table (NIT).

### **3.4**

#### **EWBS-ready receiver**

Devices that are able to receive EWBS signals and that have an EWBS function

### **3.5**

#### **EWBS signal**

Control signal for activating the EWBS-ready receivers

### **3.6**

#### **Exclusive EWBS receiver**

Portable devices that are only used for EWBS purposes. These devices come with a Superimpose function and not with a television function.

### **3.7**

#### **Fixed receiver (Full-seg receiver)**

Devices used indoors or for fixed reception and that work with power supplied from a fixed AC power line. These have a Full-seg receiving function; that is, these devices can decode audio, video, data, etc., carried in the transport stream layer in thirteen segments.

### **3.8**

#### **Portable receiver (One-seg receiver)**

Devices used for portable reception and that work with power supplied from a portable battery. These have a One-seg receiving function; that is, these devices exclusively decode audio, video, data, etc., information transported on layer A that is located in the central segment of the thirteen segments.

### **3.9**

#### **Set-top Box**

Device for receiving and decoding digital television signals that is connected to a television set through cables or any other type of connection and that requires analog or digital audio and video output interfaces.

### **3.10**

#### **Superimpose**

Text message asynchronous with the main image, sound, and data that deliver the emergency information.

## **4 Abbreviations**

For the purposes of this document, the following abbreviations apply.

Bslbf Bit String Left Bit First

ES Elementary Stream

EWBS Emergency Warning Broadcast System

|        |  |
|--------|--|
| HD     | High Definition  |
| ID     | Identifier   |
| IFFT   | Inverse Fast Fourier Transform                             |
| PES    | Packetized Elementary Stream                               |
| PMT    | Program Map Table  |
| PTS    | Presentation Time Stamp                                    |
| OFDM   | Orthogonal Frequency Division Multiplexing                 |
| SD     | Standard Definition  |
| STB    | Set-top box  |
| TMCC   | Transmission and Multiplexing Configuration Control signal |
| TS     | Transport Stream   |
| Uimsbf | Unsigned Integer Most Significant Bit First                |

## 5 Overview of EWBS function

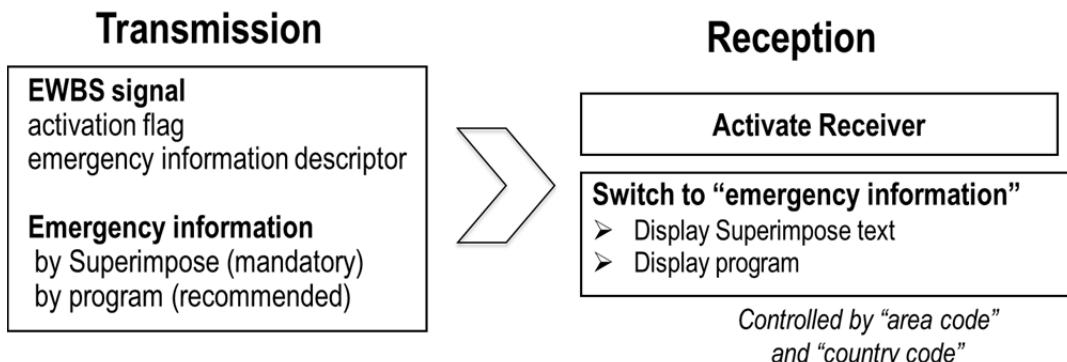
EWBS signals transmitted by broadcasters activate EWBS-ready receivers and show emergency information.

EWBS signals consist of an activation flag on the TMCC and the emergency Information descriptor on the PMT.

Broadcasters convey the emergency information in the two following ways:

- Transmitting a text message using the Superimpose function (mandatory operation)
- Transmitting the program (recommended operation)

On the reception side, the EWBS signal activates the receivers according to the area code and switches to the emergency information. That is, it interrupts the current program and displays the Superimpose data and program.



**Figure 1 - Basic function of EWBS**

## 6 EWBS transmission procedure

### 6.1 Transmission overview

EWBS operation should rely on the most robust transmission layer for stable reception.

The four items below should be made available when starting EWBS.

- The emergency information descriptor that specifies EWBS conditions related to the start/end flag, service ID, and area code should be carried in PMT on all the services.
- The broadcaster should set the activation flag for EWBS in the TMCC signal to “1”;
- A text message that can be recognized as emergency information by using Superimpose should be transmitted on a service that carries emergency information.
- If the program with emergency information is available, it should be transmitted on a service that carries emergency information.

When stopping the EWBS, the following signaling should be done.

- The activation flag for EWBS should be set to “0”;
- The emergency information descriptor should be deleted from the PMT.

## 6.2 Signaling on PMT table

The emergency information descriptor should be used when the EWBS is performed by broadcasters. Its transmission is mandatory, and it should be transmitted in the PMT. Since there are different PMT tables being transmitted in different services, the transmission criteria in Table 1 apply.

**Table 1 – PMT selection for emergency information descriptor**

| Service                       | Transmission of emergency information descriptor |
|-------------------------------|--|
| With emergency information    | Mandatory  |
| Without emergency information | Mandatory  |

## 6.3 Modification of the emergency information descriptor

During the EWBS operation, if it is necessary to change any information, for example, the area code, the procedure to end the EWBS should be performed (which specifically involves setting the activation flag in the TMCC signal to 0 and deleting the emergency information descriptor from the PMT). After inserting the modified emergency information descriptor, the activation flag in the TMCC should be set to “1” again.

An example of EWBS transmission operation with four services (HD, SD1, SD2, and One-seg), is presented in Figure 2.

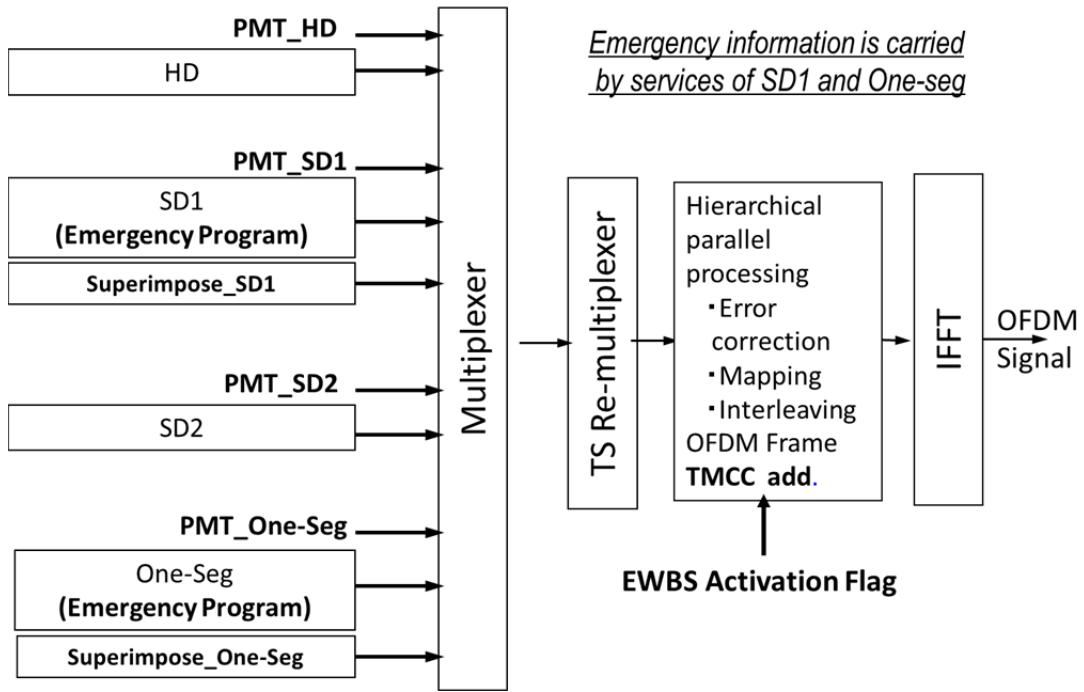


Figure 2 – Example of EWBS transmission operation

## 7 EWBS reception procedure

### 7.1 Reception overview

EWBS-ready receivers should support the following specification.

EWBS-ready receiver units should be able to display Superimpose and have preset area codes. Table 2 summarizes the EWBS function specifications for compatible fixed and portable receivers.

**Table 2 – Specification of EWBS function**

| Function          | Fixed receivers          |                          | Portable receivers       |                          |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                   | TV set                   | STB                      | One-seg                  | Exclusive EWBS           |
| Automatic startup | Recommended <sup>a</sup> | Recommended <sup>a</sup> | Recommended <sup>a</sup> | Recommended <sup>a</sup> |
| Area code setting | Mandatory <sup>b</sup>   | Mandatory <sup>b</sup>   | Mandatory <sup>b</sup>   | Mandatory <sup>b</sup>   |
| Superimpose       | Mandatory                | Mandatory                | Mandatory                | Mandatory                |
| Program decoding  | Mandatory                | Mandatory                | Mandatory                | -                        |

<sup>a</sup> See section 7.2  
<sup>b</sup> See section 7.3.1

The EWBS receiving procedure comprises the following steps:

- The EWBS-ready receiver should continue monitoring the activation flag in the TMCC signal in stand-by mode.
- When the activation flag in the TMCC signal changes from “0” to “1”, the receivers should start checking the emergency information descriptor in the PMT of the received transport stream.
- If the activation flag is “1” and the area code in the PMT matches the area code set in the receiver, the receivers should be activated. The receivers should then display the emergency information (Superimpose and program).
- If the activation flag is “0”, it is a test transmission and no particular operation is required.

Receivers should continuously monitor the PMT while the activation flag in the TMCC signal remains “1”. When the “Activation flag” in the TMCC switches to “0” and the emergency information descriptor is deleted, EWBS operation comes to an end.

### 7.2 Automatic startup function

It is recommended to have an automatic startup function in EWBS-ready receivers. However, in order to design such receivers, it is necessary to consider the following.

- A simultaneous startup with many TV sets that use power supplied from a fixed AC power line might affect the power supply system. Therefore, it is recommended that the TV sets have a slow startup function. It is also recommended that there be an alternative notification method such as a buzzer sound in order to alert the users and encourage them to turn on their TV sets.
- It is recommended that STBs have an audible notification method.
- It is highly recommended that portable receivers working with a portable battery have an automatic startup function. When developing such portable EWBS-ready receivers, manufacturers should make an effort to reduce the power consumption of the battery, especially during stand-by mode.
- Stand-by power consumption in fixed receivers such as TV sets and STBs should also be reduced.

## 7.3 Data preset on EWBS-ready receiver

### 7.3.1 Area Code

For EWBS purposes, receivers should pre-store the specific area code that corresponds to their location. In each country, an “area code table” should be produced and published by a responsible agency so that users can pre-store the appropriate area code in their receivers.

EWBS-ready receiver should support an area code setting function. The automatic setting (for example, using GPS) is the preferred and recommended configuration method, as it is easier and more convenient for users.

The capability for manual setting should also be available through the user interface (for example, using ZIP code). For this purpose, responsible agencies are requested to publicize an “area code table” in advance as well as to coordinate with receiver manufacturers in order to provide users with appropriate guidance on how to set the area code into receivers.

### 7.3.2 The monitoring station in stand-by-mode

For the EWBS automatic startup function, receivers should continue monitoring the activation flag in the TMCC signal in stand-by mode. Since receivers are able to monitor only one broadcasting station, a specific monitoring station must be determined.

It is recommended that EWBS-ready receivers monitor the activation flag in the TMCC by having a default configuration. For this purpose, responsible agencies are requested to publicize in advance a list of broadcasters operating the EWBS in each area in order to provide users with appropriate guidance on how to set the broadcasters in the receivers. It should also be possible for the user to disable the function in the receiver user interface.

In searching for RF signals in the initial installation, the receivers should check the “country code” in the “local time offset descriptor” of each RF signal. RF signals in which the country code is different from the actual country location should be excluded from the monitoring station in order to avoid detecting false area codes for different countries.

The transmission of “country code” in the “Local time offset descriptor” is a mandatory operation for any station that operates the EWBS in order to ensure proper EWBS operations. The country code is a 24-bit field in the “Local time offset descriptor” that shall identify the country using three characters as specified in ISO 3166-1. Each character shall be coded in 8 bits according to ISO 8859-15 and inserted in order into the 24-bit field:

**Table 3 – Country codes**

| Country name<br>(English short name) | Alpha-3 code | Country code (24bits)         |
|--------------------------------------|--------------|-------------------------------|
| Argentina                            | ARG          | 0100 0001 0101 0010 0100 0111 |
| Bolivia                              | BOL          | 0100 0010 0100 1111 0100 1100 |
| Botswana                             | BWA          | 0100 0010 0101 0111 0100 0001 |
| Brazil                               | BRA          | 0100 0010 0101 0010 0100 0001 |
| Costa Rica                           | CRI          | 0100 0011 0101 0010 0100 1001 |
| Chile                                | CHL          | 0100 0011 0100 1000 0100 1100 |
| Ecuador                              | ECU          | 0100 0101 0100 0011 0101 0101 |
| Guatemala                            | GTM          | 0100 0111 0101 0100 0100 1101 |
| Honduras                             | HND          | 0100 1000 0100 1110 0100 0100 |
| Japan                                | JPN          | 0100 1010 0101 0000 0100 1110 |
| Maldives                             | MDV          | 0100 1101 0100 0100 0101 0110 |
| Nicaragua                            | NIC          | 0100 1110 0100 1001 0100 0011 |
| Paraguay                             | PRY          | 0101 0000 0101 0010 0101 1001 |
| Philippines                          | PHL          | 0101 0000 0100 1000 0100 1100 |
| Peru                                 | PER          | 0101 0000 0100 0101 0101 0010 |

|           |     |                               |
|-----------|-----|-------------------------------|
| Sri Lanka | LKA | 0100 1100 0100 1011 0100 0001 |
| Uruguay   | URY | 0101 0101 0101 0010 0101 1001 |
| Venezuela | VEN | 0101 0110 0100 0101 0100 1110 |

#### 7.4 Implementation process of EWBS-ready receivers

- To develop sustainable EWBS-ready receivers, the following items are required in each country
- Assignment and publicity of “Area code table” by responsible agency.
  - Publication of list of broadcast stations that operate EWBS in each area by responsible agency.
  - Development of automatic start-up function for each type of receiver.
  - Adequate test period before putting receivers on the market with cooperation among related organizations (responsible agencies, broadcasters, and manufacturers)

### 8 Activation flag

TMCC information shall assist the receiver in demodulating and decoding various kinds of information, including: system identification, indication of transmission-parameter switching, activation flag of EWBS, current configuration information, and the next configuration information.

When the activation flag of the EWBS is switched, other transmission parameters shall not change.

The bit assigned to the activation flag of EWBS is bit 26 of TMCC,  $B_{26}$ . The content of the activation flag shall respectively be 1 and 0 when the receiver startup is and is not controlled, as indicated in Table 4.

**Table 4 — TMCC activation flag of EWBS**

| $B_{26}$ | Meaning                   |
|----------|---------------------------|
| 0        | No startup control        |
| 1        | Startup control available |

Broadcasters should keep the activation flag in the TMCC signal set to “1” while emergency Information is transmitted, regardless of the transmission layer in which the service that provides the EWBS is carried.

### 9 Emergency information descriptor

The emergency information descriptor syntax shall be in accordance with Table 5.

**Table 5 — Emergency information descriptor**

| Syntax                              | No. of bits | Identifier |
|-------------------------------------|-------------|------------|
| emergency_information_descriptor(){ |             |            |
| descriptor_tag                      | 8           | uimsbf     |
| descriptor_length                   | 8           | uimsbf     |
| for(i=0;i<N;i++){                   |             |            |
| service_id                          | 16          | uimsbf     |
| start_end_flag                      | 1           | bslbf      |
| signal_level                        | 1           | bslbf      |
| reserved_future_use                 | 6           | bslbf      |
| area_code_length                    | 8           | uimsbf     |
| for(j=0;j<N;j++){                   |             |            |
| area_code                           | 12          | bslbf      |
| reserved_future_use                 | 4           | bslbf      |
| }                                   |             |            |
| }                                   |             |            |
| }                                   |             |            |

The semantics for the emergency information descriptor shall be:

- service\_id: 16-bit field that indicates the broadcasting event number. It shall be the same as program\_number;
- start\_end\_flag: 1-bit field that corresponds to the start signal and end signal of EWBS operation. When this bit is set to "1", it shall mean that the EWBS was started or is currently in operation. When it is set to "0", it shall mean that the EWBS has ended;
- signal\_level: 1-bit field that corresponds to the emergency alarm signal specified by the responsible agencies. When set to "0", it shall mean that the emergency alarm signal is the first type of start signal. When set to "1", the alarm signal shall be the second type of start signal; This information should not be used to control EWBS-ready receivers.
- area\_code\_length: 8-bit field that indicates the size in bytes of an area code;
- area\_code: 12-bit field that corresponds to the area code specified by the responsible agencies.

The area code data are also part of the terrestrial delivery system descriptor that indicates the physical conditions of terrestrial transmission. The allocation of the area code is specific for each ISDB-T country. The proposed assignments are presented in Annex A.

## 10 Superimpose

The emergency warning information has priority over other content because of the Superimpose transmission.

Superimpose services are transmitted through an asynchronous PES; in other words, the PTS information is not sent. The following restrictions apply to Superimpose:

- i) Restrictions on Superimpose for Full-seg (fixed receivers)
  - maximum number of ESs transmitted simultaneously: 1;

- maximum number of languages per ES: 1 (for Latin American countries<sup>c</sup>) or 2 (for the other countries).
  - maximum PES size: 32 KB;
  - minimum interval for sending PES packets: 100 ms;
  - maximum ES rate: 256 Kbit/s;
  - receiving buffer: greater than or equal to 64 KB.
- ii) Restrictions on Superimpose for One-seg (portable receivers)
- maximum number of ESs transmitted simultaneously: 1;
  - maximum number of languages per ES: 1 (for Latin American countries<sup>c</sup>) or 2 (for the other countries);
  - maximum PES size: 640 B;
  - minimum interval for sending PES packets: 1000 ms;
  - maximum ES rate: 3 Kbit/s;
  - receiving buffer: greater than or equal to 1280 B.

The Superimpose is carried by an independent PES that should be identified in the PMT with a stream\_type value equal to 0x06 through an independent elementary stream according to Table 6.

**Table 6 – Superimpose signaling**

| Description              | Stream type | Component tag |
|--------------------------|-------------|---------------|
| Superimpose for Full-seg | 0x06        | 0x38          |
| Superimpose for One-seg  |             | 0x88          |

Transmission operation of Superimpose for Full-seg should follow Japan's operational guideline (ARIB TR-B14\_Vol.3\_Section2\_4), taking note that when using it for EWBS purposes, the parameters of caption management data of the "Data Component Descriptor" must be set as indicated in Table 7.

Transmission operation of Superimpose for One-seg should follow Annex B<sup>d</sup>.

**Table 7 – Setup parameters for “Data Component Descriptor” for Superimpose (when using it for EWBS purposes)**

| Field  | Function               | Operation                     |
|--------|------------------------|-------------------------------|
| DMF    | Display mode control   | "0011" ( ; Automatic display) |
| Timing | Display timing control | "00" ( ; Asynchronous)        |

<sup>c</sup> For Venezuela, the maximum number of languages per ES is 2, depending on display message management.

<sup>d</sup> In the operational guideline "ARIB TR-B14", while "Operation of closed caption coding" for One-seg is specified in Vol. 3\_Section 4\_6, there is no specification of Superimpose for One-seg. Therefore, Annex B is created specifically for Superimpose for One-seg based on the specifications of the "Operation of closed caption coding" for One-seg.

## Annex A (Informative)

### Area code assignment

#### **A.1 Argentina**

#### **A.2 Bolivia**

#### **A.3 Botswana**

| Common   | District           | Sub-District / Area | Area Code<br>(Binary) | Area Code<br>(Decimal) |
|----------|--------------------|---------------------|-----------------------|------------------------|
| National |                    |                     | 000001100100          | 100                    |
|          | Central District   |                     | 000011001000          | 200                    |
|          |                    | Francistown         | 000011001001          | 201                    |
|          |                    | Serowe/Palapye      | 000011001010          | 202                    |
|          |                    | Tutume              | 000011001011          | 203                    |
|          |                    | Bobonong            | 000011001100          | 204                    |
|          |                    | Letlhakane          | 000011001101          | 205                    |
|          |                    | Mahalapye           | 000011001110          | 206                    |
|          |                    | Selebi-Phikwe       | 000011001111          | 207                    |
|          |                    | Sowa Town           | 000011010000          | 208                    |
|          |                    | Tonota              | 000011010001          | 209                    |
|          | Ghanzi District    |                     | 000100101100          | 300                    |
|          |                    | Charleshill         | 000100101101          | 301                    |
|          |                    | Ghanzi              | 000100101110          | 302                    |
|          | Kgalagadi District |                     | 000110010000          | 400                    |
|          |                    | Hukuntsi            | 000110010001          | 401                    |
|          |                    | Tsabong             | 000110010010          | 402                    |
|          |                    | Kang                | 000110010011          | 403                    |
|          |                    | Bokspits            | 000110010100          | 404                    |
|          | Kgatleng District  |                     | 000111110100          | 500                    |
|          |                    | Mochudi             | 000111110101          | 501                    |

| Common | District         | Sub-District / Area | Area Code<br>(Binary) | Area Code<br>(Decimal) |
|--------|------------------|---------------------|-----------------------|------------------------|
|        | Kweneng District |                     | 001001011000          | 600                    |
|        |                  | Lethlakeng          | 001001011001          | 601                    |
|        |                  | Mogoditshane        | 001001011010          | 602                    |

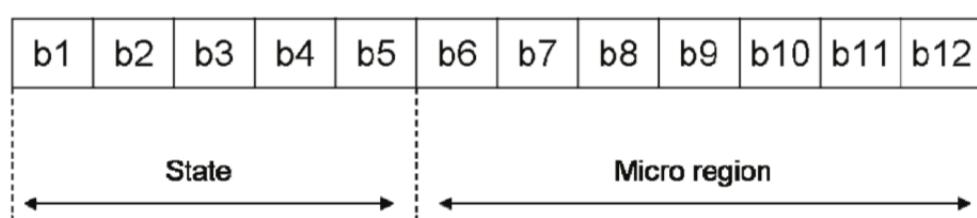
|                        |                             |              |      |
|------------------------|-----------------------------|--------------|------|
|                        | Molepolole/<br>Lentsweletau | 001001011011 | 603  |
|                        | Thamaga                     | 001001011100 | 604  |
| North-East District    |                             | 001010111100 | 700  |
|                        | Masunga                     | 001010111101 | 701  |
| Chobe                  |                             | 001100100000 | 800  |
|                        | Kasane                      | 001100100001 | 801  |
|                        | Pandamatenga                | 001100100010 | 802  |
| North-West<br>District |                             | 001110000100 | 900  |
|                        | Gumare                      | 001110000101 | 901  |
|                        | Maun                        | 001110000110 | 902  |
|                        | Shakawe                     | 001110000111 | 903  |
| South-East District    |                             | 001111101000 | 1000 |
|                        | Gaborone                    | 001111101001 | 1001 |
|                        | Ramotswa                    | 001111101010 | 1002 |
| Southern District      |                             | 010001001100 | 1100 |
|                        | Goodhope                    | 010001001101 | 1101 |
|                        | Jwaneng                     | 010001001110 | 1102 |
|                        | Kanye                       | 010001001111 | 1103 |
|                        | Mabutsane                   | 010001010000 | 1104 |
|                        | Lobatse                     | 010001010001 | 1105 |
|                        | Moshopa                     | 010001010010 | 1106 |

## A.4 Brazil

The numbering of each microregion of the country has a 5 digits identification. To suit this information in the 12 bits specified for area\_code, the lower 7 bits shall be stuffed with the three last IBGE identification digits for microregion converted to binary form, with the limitation that is cannot exceed 127

NOTE The Brazilian Geography and Statistics Institute (IBGE) defines values for each Federation Unit and micro-regions existing in the country.

If the number needs less than 7 bits for its identification, the bits to the left shall be stuffed with zero. The 5 most significant bits refers to Federative Unit (see Figure A.1) and shall be stuffed in accordance with Table A.1



**Figure A.1 – Distribution of bits for area code**

**Tabel A.1 – State identification**

| <b>Identification</b> | <b>State</b>        |
|-----------------------|---------------------|
| 00001                 | Rondônia            |
| 00010                 | Acre                |
| 00011                 | Amazonas            |
| 00100                 | Roraima             |
| 00101                 | Pará                |
| 00110                 | Amapá               |
| 00111                 | Tocantins           |
| 01000                 | Maranhão            |
| 01001                 | Piauí               |
| 01010                 | Ceará               |
| 01011                 | Rio Grande do Norte |
| 01100                 | Paraíba             |
| 01101                 | Pernambuco          |
| 01110                 | Sergipe             |
| 01111                 | Alagoas             |
| 10000                 | Bahia               |
| 10001                 | Minas Gerais        |
| 10010                 | Espírito Santo      |
| 10011                 | Rio de Janeiro      |
| 10100                 | São Paulo           |
| 10101                 | Paraná              |
| 10110                 | Santa Catarina      |
| 10111                 | Rio Grande do Sul   |
| 11000                 | Mato Grosso do Sul  |
| 11001                 | Mato Grosso         |
| 11010                 | Goiás               |
| 11011                 | Distrito Federal    |
| 11100 - 11111         | Reserved            |

For further information please refer to Annex E of ABNT NBR 15603-2.

## A.5 Costa rica

The area code assignment in Costa Rica for the EWBS (Emergency Warning Broadcasting System) is based on territorial division (as established in the Executive decree N°35213-MG “División Territorial Administrativa de Costa Rica”).

Costa Rica is composed of 7 entities named “Provincias”, which are divided in 81-second level categories named “Cantones”. The numbers for the area code assignment are composed of a decimal "Provincia" number followed by decimal "Cantón" number.

Layer 1: Local area code-1

| Cantón              | Area code<br>(Decimal) | Area code<br>(Binary) |
|---------------------|------------------------|-----------------------|
| San José            | 101                    | 000001100101          |
| Escazú              | 102                    | 000001100110          |
| Desamparados        | 103                    | 000001100111          |
| Puriscal            | 104                    | 000001101000          |
| Tarrazú             | 105                    | 000001101001          |
| Aserrí              | 106                    | 000001101010          |
| Mora                | 107                    | 000001101011          |
| Goicoechea          | 108                    | 000001101100          |
| Santa Ana           | 109                    | 000001101101          |
| Alajuelita          | 110                    | 000001101110          |
| Vázquez de Coronado | 111                    | 000001101111          |
| Acosta              | 112                    | 000001110000          |
| Tibás               | 113                    | 000001110001          |
| Moravia             | 114                    | 000001110010          |
| Montes de Oca       | 115                    | 000001110011          |
| Turrubares          | 116                    | 000001110100          |
| Dota                | 117                    | 000001110101          |
| Curridabat          | 118                    | 000001110110          |
| Pérez Zeledón       | 119                    | 000001110111          |
| León Cortés         | 120                    | 000001111000          |
| Alajuela            | 201                    | 000011001001          |
| San Ramón           | 202                    | 000011001010          |
| Grecia              | 203                    | 000011001011          |
| San Mateo           | 204                    | 000011001100          |
| Atenas              | 205                    | 000011001101          |
| Naranjo             | 206                    | 000011001110          |
| Palmares            | 207                    | 000011001111          |
| Poás                | 208                    | 000011010000          |
| Orotina             | 209                    | 000011010001          |
| San Carlos          | 210                    | 000011010010          |
| Alfaro Ruiz         | 211                    | 000011010011          |
| Valverde Vega       | 212                    | 000011010100          |
| Upala               | 213                    | 000011010101          |
| Los Chiles          | 214                    | 000011010110          |

| Cantón        | Area code<br>(Decimal) | Area code<br>(Binary) |
|---------------|------------------------|-----------------------|
| Guatuso       | 215                    | 000011010111          |
| Cartago       | 301                    | 000100101101          |
| Paraíso       | 302                    | 000100101110          |
| La Unión      | 303                    | 000100101111          |
| Jiménez       | 304                    | 000100110000          |
| Turrialba     | 305                    | 000100110001          |
| Alvarado      | 306                    | 000100110010          |
| Oreamuno      | 307                    | 000100110011          |
| El Guarco     | 308                    | 000100110100          |
| Heredia       | 401                    | 000110010001          |
| Barva         | 402                    | 000110010010          |
| Santo Domingo | 403                    | 000110010011          |
| Santa Bárbara | 404                    | 000110010100          |
| San Rafael    | 405                    | 000110010101          |
| San Isidro    | 406                    | 000110010110          |
| Belén         | 407                    | 000110010111          |
| Flores        | 408                    | 000110011000          |
| San Pablo     | 409                    | 000110011001          |
| Sarapiquí     | 410                    | 000110011010          |
| Liberia       | 501                    | 000111110101          |
| Nicoya        | 502                    | 000111110110          |
| Santa Cruz    | 503                    | 000111110111          |
| Bagaces       | 504                    | 000111111000          |
| Carrillo      | 505                    | 000111111001          |
| Cañas         | 506                    | 000111111010          |
| Abangares     | 507                    | 000111111011          |
| Tilarán       | 508                    | 000111111100          |
| Nandayure     | 509                    | 000111111101          |
| La Cruz       | 510                    | 000111111110          |
| Hojancha      | 511                    | 000111111111          |
| Puntarenas    | 601                    | 001001011001          |
| Esparza       | 602                    | 001001011010          |
| Buenos Aires  | 603                    | 001001011011          |
| Montes de Oro | 604                    | 001001011100          |
| Osa           | 605                    | 001001011101          |
| Aguirre       | 606                    | 001001011110          |
| Golfito       | 607                    | 001001011111          |
| Coto Brus     | 608                    | 001001100000          |
| Parrita       | 609                    | 001001100001          |
| Corredores    | 610                    | 001001100010          |
| Garabito      | 611                    | 001001100011          |
| Limón         | 701                    | 001010111101          |
| Pococí        | 702                    | 001010111110          |

| Cantón    | Area code<br>(Decimal) | Area code<br>(Binary) |
|-----------|------------------------|-----------------------|
| Siquirres | 703                    | 001010111111          |
| Talamanca | 704                    | 001011000000          |
| Matina    | 705                    | 001011000001          |
| Guácimo   | 706                    | 001011000010          |

Layer 2: Wide area code-1

| Provincia  | Area code<br>(Decimal) | Area code<br>(Binary) |
|------------|------------------------|-----------------------|
| San José   | 100                    | 000001100100          |
| Alajuela   | 200                    | 000011001000          |
| Cartago    | 300                    | 000100101100          |
| Heredia    | 400                    | 000110010000          |
| Guanacaste | 500                    | 000111110100          |
| Puntarenas | 600                    | 001001011000          |
| Limón      | 700                    | 001010111100          |

Layer 3: Wide area code-2

| País       | Area code<br>(Decimal) | Area code<br>(Binary) |
|------------|------------------------|-----------------------|
| Costa Rica | 1000                   | 001111101000          |

## A.6 Chile

## A.7 Ecuador

| Area Code     | PROVINCE   | CANTON                |
|---------------|------------|-----------------------|
| 0000 00011001 | AZUAY      | CAMILO PONCE ENRIQUEZ |
| 0000 00101001 |            | CHORDELEG             |
| 0000 00101111 |            | CUENCA                |
| 0000 00111001 |            | EL PAN                |
| 0000 01000100 |            | GIRON                 |
| 0000 01001000 |            | GUACHAPALA            |
| 0000 01001001 |            | GUALACEO              |
| 0000 01110111 |            | NABON                 |
| 0000 01111110 |            | OÑA                   |
| 0000 10001110 |            | PAUTE                 |
| 0000 10011011 |            | PUCARA                |
| 0000 10110010 |            | SAN FERNANDO          |
| 0000 11000000 |            | SANTA ISABEL          |
| 0000 11001000 |            | SEVILLA DE ORO        |
| 0000 11001011 |            | SIGSIG                |
| 0000 00010111 |            | CALUMA                |
| 0000 00100101 |            | CHILLANES             |
| 0000 00100110 | BOLIVAR    | CHIMBO                |
| 0000 00110101 |            | ECHEANDIA             |
| 0000 01001101 |            | GUARANDA              |
| 0000 01100000 |            | LAS NAVES             |
| 0000 10110110 |            | SAN MIGUEL            |
| 0000 00001100 |            | AZOGUES               |
| 0000 00010011 | CAÑAR      | BIBLIAN               |
| 0000 00011010 |            | CAÑAR                 |
| 0000 00110011 |            | DELEG                 |
| 0000 00111100 |            | EL TAMBO              |
| 0000 01011100 |            | LA TRONCAL            |
| 0000 11010001 |            | SUSCAL                |
| 0000 00010100 | CARCHI     | BOLIVAR               |
| 0000 01000001 |            | ESPEJO                |
| 0000 01101111 |            | MIRA                  |
| 0000 01110100 |            | MONTUFAR              |
| 0000 10111001 |            | SAN PEDRO DE HUACA    |
| 0000 11010111 |            | TULCAN                |
| 0000 00000011 | CHIMBORAZO | ALAUSI                |
| 0000 00100011 |            | CHAMBO                |
| 0000 00101010 |            | CHUNCHI               |
| 0000 00101100 |            | COLTA                 |
| 0000 00110000 |            | CUMANDA               |
| 0000 01001011 |            | GUAMOTE               |
| 0000 01001100 |            | GUANO                 |
| 0000 10000110 |            | PALLATANGA            |
| 0000 10010011 |            | PENIPE                |
| 0000 10101001 |            | RIOBAMBA              |

| Area Code     | PROVINCE   | CANTON                     |
|---------------|------------|----------------------------|
| 0000 01011011 | COTOPAXI   | LA MANA                    |
| 0000 01100001 |            | LATACUNGA                  |
| 0000 10001001 |            | PANGUA                     |
| 0000 10011111 |            | PUJILI                     |
| 0000 10101101 |            | SALCEDO                    |
| 0000 11000110 |            | SAQUISILI                  |
| 0000 11001010 |            | SIGCHOS                    |
| 0000 00001001 | EL ORO     | ARENILLAS                  |
| 0000 00001011 |            | ATAHUALPA                  |
| 0000 00010000 |            | BALSAS                     |
| 0000 00100100 |            | CHILLA                     |
| 0000 00111000 |            | EL GUABO                   |
| 0000 01010000 |            | HUAQUILLAS                 |
| 0000 01011111 |            | LAS LAJAS                  |
| 0000 01101000 |            | MACHALA                    |
| 0000 01101011 |            | MARCABELI                  |
| 0000 10001011 |            | PASAJE                     |
| 0000 10010111 |            | PIÑAS                      |
| 0000 10011001 |            | PORTOVELO                  |
| 0000 11000010 |            | SANTA ROSA                 |
| 0000 11100000 |            | ZARUMA                     |
| 0000 00001010 | ESMERALDAS | ATACAMES                   |
| 0000 00111110 |            | ELOY ALFARO                |
| 0000 01000000 |            | ESMERALDAS                 |
| 0000 01011000 |            | LA CONCORDIA               |
| 0000 01110110 |            | MUISNE                     |
| 0000 10100110 |            | QUININDE                   |
| 0000 10101010 |            | RIOVERDE                   |
| 0000 10110101 | GALAPAGOS  | SAN LORENZO                |
| 0000 01010010 |            | ISABELA                    |
| 0000 10110001 |            | SAN CRISTOBAL              |
| 0000 10111110 |            | SANTA CRUZ                 |
| 0000 00000100 | GUAYAS     | ALFREDO BAQUERIZO MORENO   |
| 0000 00001111 |            | BALAO                      |
| 0000 00010001 |            | BALZAR                     |
| 0000 00101011 |            | COLIMES                    |
| 0000 00101110 |            | CRNEL. MARCELINO MARIDUEÑA |
| 0000 00110010 |            | DAULE                      |
| 0000 00110100 |            | DURAN                      |
| 0000 00111101 |            | EL TRIUNFO                 |
| 0000 00111111 |            | EMPALME                    |
| 0000 01000101 |            | GNRAL. ANTONIO ELIZALDE    |
| 0000 01001110 |            | GUAYAQUIL                  |
| 0000 01010011 |            | ISIDRO AYORA               |
| 0000 01100101 |            | LOMAS DE SARGENTILLO       |
| 0000 01101110 |            | MILAGRO                    |
| 0000 01111001 |            | NARANJAL                   |
| 0000 01111010 |            | NARANJITO                  |
| 0000 01111011 |            | NOBOL                      |
| 0000 10000101 |            | PALESTINA                  |

| Area Code     | PROVINCE  | CANTON                   |
|---------------|-----------|--------------------------|
| 0000 10010000 | GUAYAS    | PEDRO CARBO              |
| 0000 10011000 |           | PLAYAS                   |
| 0000 10101111 |           | SALITRE                  |
| 0000 10110000 |           | SAMBORONDON              |
| 0000 10110011 |           | SAN JACINTO DE YAGUACHI  |
| 0000 11000001 |           | SANTA LUCIA              |
| 0000 11001100 |           | SIMON BOLIVAR            |
| 0000 00000110 | IMBABURA  | ANTONIO ANTE             |
| 0000 00101101 |           | COTACACHI                |
| 0000 01010001 |           | IBARRA                   |
| 0000 10000000 |           | OTAVALO                  |
| 0000 10010101 |           | PIMAMPIRO                |
| 0000 10111000 |           | SAN MIGUEL DE URCUQUI    |
| 0000 00011110 | PICHINCHA | CAYAMBE                  |
| 0000 01101100 |           | MEJIA                    |
| 0000 10010001 |           | PEDRO MONCAYO            |
| 0000 10010010 |           | PEDRO VICENTE MALDONADO  |
| 0000 10011110 |           | PUERTO QUITO             |
| 0000 10101000 |           | QUITO                    |
| 0000 10101100 |           | RUMIÑAHUI                |
| 0000 10110111 |           | SAN MIGUEL DE LOS BANCOS |
| 0000 00011000 | LOJA      | CALVAS                   |
| 0000 00011101 |           | CATAMAYO                 |
| 0000 00011111 |           | CELICA                   |
| 0000 00100010 |           | CHAGUARPAMBA             |
| 0000 01000010 |           | ESPINDOLA                |
| 0000 01000111 |           | GONZANAMA                |
| 0000 01100100 |           | LOJA                     |
| 0000 01100111 |           | MACARA                   |
| 0000 01111101 |           | OLMEDO                   |
| 0000 10001000 |           | PALTAS                   |
| 0000 10010110 |           | PINDAL                   |
| 0000 10100001 |           | PUYANGO                  |
| 0000 10100101 |           | QUILANGA                 |
| 0000 11000111 |           | SARAGURO                 |
| 0000 11001101 | LOS RIOS  | SOZORANGA                |
| 0000 11011111 |           | ZAPOTILLO                |
| 0000 00001101 |           | BABA                     |
| 0000 00001110 |           | BABAHoyo                 |
| 0000 00010110 |           | BUENA FE                 |
| 0000 01110000 |           | MOCACHE                  |
| 0000 01110010 |           | MONTALVO                 |
| 0000 10000100 |           | PALENQUE                 |
| 0000 10011100 |           | PUEBLOVIEJO              |
| 0000 10100011 |           | QUEVEDO                  |
| 0000 10100111 |           | QUINSALOMA               |
| 0000 11011000 |           | URDANETA                 |
| 0000 11011001 |           | VALENCIA                 |
| 0000 11011010 |           | VENTANAS                 |
| 0000 11011011 |           | VINCES                   |

| Area Code            | PROVINCE        | CANTON                      |
|----------------------|-----------------|-----------------------------|
| 0000 00000001        | MANABI          | 24 DE MAYO                  |
| 0000 00010101        |                 | BOLIVAR                     |
| 0000 00101000        |                 | CHONE                       |
| 0000 00110110        |                 | EL CARMEN                   |
| 0000 01000011        |                 | FLAVIO ALFARO               |
| 0000 01010100        |                 | JAMA                        |
| 0000 01010101        |                 | JARAMIJO                    |
| 0000 01010110        |                 | JIPIJAPA                    |
| 0000 01010111        |                 | JUNIN                       |
| 0000 01101010        |                 | MANTA                       |
| 0000 01110011        |                 | MONTECRISTI                 |
| 0000 01111100        |                 | OLMEDO                      |
| 0000 10000010        |                 | PAJAN                       |
| 0000 10001111        |                 | PEDERNALES                  |
| 0000 10010100        |                 | PICHINCHA                   |
| 0000 10011010        |                 | PORTOVIEJO                  |
| 0000 10011101        |                 | PUERTO LOPEZ                |
| 0000 10101011        |                 | ROCAFUERTE                  |
| 0000 10111011        |                 | SAN VICENTE                 |
| 0000 10111100        |                 | SANTA ANA                   |
| 0000 11001110        |                 | SUCRE                       |
| 0000 11010110        |                 | TOSAGUA                     |
| 0000 01001010        | MORONA SANTIAGO | GUALAQUIZA                  |
| 0000 01001111        |                 | HUAMBOYA                    |
| 0000 01100010        |                 | LIMON INDANZA               |
| 0000 01100011        |                 | LOGROÑO                     |
| 0000 01110101        |                 | MORONA                      |
| 0000 10000001        |                 | PABLO SEXTO                 |
| 0000 10000111        |                 | PALORA                      |
| 0000 10110100        |                 | SAN JUAN BOSCO              |
| 0000 11000011        |                 | SANTIAGO                    |
| 0000 11001111        |                 | SUCUA                       |
| 0000 11010010        |                 | TAISHA                      |
| 0000 11010101        |                 | TIWINTZA                    |
| <b>0000 00000000</b> | <b>NACIONAL</b> | <b>NACIONAL</b>             |
| 0000 00001000        | NAPO            | ARCHIDONA                   |
| 0000 00011011        |                 | CARLOS JULIO AROSEMENA TOLA |
| 0000 00110111        |                 | EL CHACO                    |
| 0000 10100100        |                 | QUIJOS                      |
| 0000 11010011        |                 | TENA                        |
| 0000 00000010        | ORELLANA        | AGUARICO                    |
| 0000 01011001        |                 | LA JOYA DE LOS SACHAS       |
| 0000 01100110        |                 | LORETO                      |
| 0000 01111111        |                 | ORELLANA                    |
| 0000 00000111        | PASTAZA         | ARAJUNO                     |
| 0000 01101101        |                 | MERA                        |
| 0000 10001100        |                 | PASTAZA                     |
| 0000 10111101        |                 | SANTA CLARA                 |
| 0000 01011010        | SANTA ELENA     | LA LIBERTAD                 |
| 0000 10101110        |                 | SALINAS                     |
| 0000 10111111        |                 | SANTA ELENA                 |

| Area Code     | PROVINCE                       | CANTON               |
|---------------|--------------------------------|----------------------|
| 0000 11000101 | SANTO DOMINGO DE LOS TSACHILAS | SANTO DOMINGO        |
| 0000 00011100 | SUCUMBIOS                      | CASCALES             |
| 0000 00110001 |                                | CUYABENO             |
| 0000 01000110 |                                | GONZALO PIZARRO      |
| 0000 01011101 |                                | LAGO AGRIOS          |
| 0000 10100000 |                                | PUTUMAYO             |
| 0000 11001001 |                                | SHUSHUFINDI          |
| 0000 11010000 |                                | SUCUMBIOS            |
| 0000 00000101 | TUNGURAHUA                     | AMBATO               |
| 0000 00010010 |                                | BAÑOS DE AGUA SANTA  |
| 0000 00100001 |                                | CEVALLOS             |
| 0000 01110001 |                                | MOCHA                |
| 0000 10001101 |                                | PATATE               |
| 0000 10100010 |                                | QUERO                |
| 0000 10111010 |                                | SAN PEDRO DE PELILEO |
| 0000 11000100 |                                | SANTIAGO DE PILLARO  |
| 0000 11010100 |                                | TISALEO              |
| 0000 00100000 |                                | CENTINELA DEL CONDOR |
| 0000 00100111 | ZAMORA CHINCHIPE               | CHINCHIPE            |
| 0000 00111010 |                                | EL PANGUI            |
| 0000 01111000 |                                | NANGARITZA           |
| 0000 10000011 |                                | PALANDA              |
| 0000 10001010 |                                | PAQUISHA             |
| 0000 11011100 |                                | YACUAMBI             |
| 0000 11011101 |                                | YANTZAZA             |
| 0000 11011110 |                                | ZAMORA               |
| 0000 00111011 | ZONA NO DELIMITADA             | EL PIEDRERO          |
| 0000 01011110 |                                | LAS GOLONDRINAS      |
| 0000 01101001 |                                | MANGA DEL CURA       |

#### A.8 Guatemala

#### A.9 Honduras

## A.10 Japan

| Local code     | Description       |                       | Local code     | Description |           |
|----------------|-------------------|-----------------------|----------------|-------------|-----------|
| 0011 0100 1101 | Local common code |                       | 1101 0100 1010 | Prefecture  | Yamanashi |
| 0101 1010 0101 | Wide area code    | Wide area of Kanto    | 1001 1101 0010 | code        | Nagano    |
|                |                   |                       | 1010 0110 0101 |             | Gifu      |
| 0111 0010 1010 |                   | Wide area of Chukyo   | 1010 0101 1010 |             | Shizuoka  |
|                |                   |                       | 1001 0110 0110 |             | Aichi     |
| 1000 1101 0101 |                   | Wide area of Kinki    | 0010 1101 1100 |             | Mie       |
|                |                   |                       | 1100 1110 0100 |             | Shiga     |
| 0110 1001 1001 |                   | Tottori, Shimane area | 0101 1001 1010 |             | Kyoto     |
|                |                   |                       | 1100 1011 0010 |             | Osaka     |
| 0101 0101 0011 |                   | Okayama, Kagawa area  | 0110 0111 0100 |             | Hyogo     |
|                |                   |                       | 1010 1001 0011 |             | Nara      |
| 0001 0110 1011 | Prefecture code   | Hokkaido              | 0011 1001 0110 |             | Wakayama  |
| 0100 0110 0111 |                   | Aomori                | 1101 0010 0011 |             | Tottori   |
| 0101 1101 0100 |                   | Iwate                 | 0011 0001 1011 |             | Shimane   |
| 0111 0101 1000 |                   | Miyagi                | 0010 1011 0101 |             | Okayama   |
| 1010 1100 0110 |                   | Akita                 | 1011 0011 0001 |             | Hiroshima |
| 1110 0100 1100 |                   | Yamagata              | 1011 1001 1000 |             | Yamaguchi |
| 0001 1010 1110 |                   | Fukushima             | 1110 0110 0010 |             | Tokushima |
| 1100 0110 1001 |                   | Ibaraki               | 1001 1011 0100 |             | Kagawa    |
| 1110 0011 1000 |                   | Tochigi               | 0001 1001 1101 |             | Ehime     |
| 1001 1000 1011 |                   | Gunma                 | 0010 1110 0011 |             | Kochi     |
| 0110 0100 1011 |                   | Saitama               | 0110 0010 1101 |             | Fukuoka   |
| 0001 1100 0111 |                   | Chiba                 | 1001 0101 1001 |             | Saga      |
| 1010 1010 1100 |                   | Tokyo                 | 1010 0010 1011 |             | Nagasaki  |
| 0101 0110 1100 |                   | Kanagawa              | 1000 1010 0111 |             | Kumamoto  |
| 0100 1100 1110 |                   | Niigata               | 1100 1000 1101 |             | Oita      |
| 0101 0011 1001 |                   | Toyama                | 1101 0001 1100 |             | Miyazaki  |
| 0110 1010 0110 |                   | Ishikawa              | 1101 0100 0101 |             | Kagoshima |
| 1001 0010 1101 |                   | Fukui                 | 0011 0111 0010 |             | Okinawa   |

## A.11 Maldives

| Common   | Province             | Atoll | Area Code<br>(Binary) | Area Code<br>(Decimal) |
|----------|----------------------|-------|-----------------------|------------------------|
| National |                      |       | 000001100100          | 100                    |
|          | Upper North Province |       | 000011001000          | 200                    |
|          |                      | HA    | 000011001001          | 201                    |
|          |                      | HDh   | 000011001010          | 202                    |
|          |                      | Sh    | 000011001011          | 203                    |
|          | North Province       |       | 000100101100          | 300                    |
|          |                      | N     | 000100101101          | 301                    |

| Common | Province               | Atoll | Area Code<br>(Binary) | Area Code<br>(Decimal) |
|--------|------------------------|-------|-----------------------|------------------------|
|        |                        | R     | 000100101110          | 302                    |
|        |                        | B     | 000100101111          | 303                    |
|        |                        | Lh    | 000100110000          | 304                    |
|        | North Central Province |       | 000110010000          | 400                    |
|        |                        | Male  | 000110010001          | 401                    |
|        |                        | K     | 000110010010          | 402                    |
|        |                        | AA    | 000110010011          | 403                    |
|        |                        | ADh   | 000110010100          | 404                    |
|        |                        | V     | 000110010101          | 405                    |
|        | Central Province       |       | 000111110100          | 500                    |
|        |                        | M     | 000111110101          | 501                    |
|        |                        | F     | 000111110110          | 502                    |
|        |                        | Dh    | 000111110111          | 503                    |
|        | South Central Province |       | 001001011000          | 600                    |
|        |                        | Th    | 001001011001          | 601                    |
|        |                        | L     | 001001011010          | 602                    |
|        | Upper South Province   |       | 001010111100          | 700                    |
|        |                        | Ga    | 001010111101          | 701                    |
|        |                        | GdH   | 001010111110          | 702                    |
|        | South Province         |       | 001100100000          | 800                    |
|        |                        | Gn    | 001100100001          | 801                    |
|        |                        | S     | 001100100010          | 802                    |

## A.12 Nicaragua

## A.13 Paraguay

## A.14 Peru

### A.10.1 UBIGEO

The Code of Geographic Location is the unique numerical identifier that is assigned to each administrative political scope of the country, in its different levels, to identify the department, province

and district, in order to allow its connection with the data bases that contain information of the censuses, surveys and administrative registries of the National System of Statistic and Informática of Perú (SNEI)

#### A.10.2 AREA CODE

The area code was elaborated considering to the UBIGEO.

We have three (03) categories: department, province and district.

The departments are conformed by provinces and the provinces by districts.

##### A.10.2.1 DEPARTMENT (WIDE AREA)

| DEPARTMENT    | UBIGEO | AREA CODE |               |
|---------------|--------|-----------|---------------|
|               |        | decimal   | binary        |
| AMAZONAS      | 10000  | 1         | 000000000001  |
| ANCASH        | 20000  | 2         | 000000000010  |
| APURIMAC      | 30000  | 3         | 000000000011  |
| AREQUIPA      | 40000  | 4         | 0000000000100 |
| AYACUCHO      | 50000  | 5         | 0000000000101 |
| CAJAMARCA     | 60000  | 6         | 0000000000110 |
| CUSCO         | 80000  | 7         | 0000000000111 |
| HUANCAVELICA  | 90000  | 8         | 0000000001000 |
| HUANUCO       | 100000 | 9         | 0000000001001 |
| ICA           | 110000 | 10        | 0000000001010 |
| JUNIN         | 120000 | 11        | 0000000001011 |
| LA LIBERTAD   | 130000 | 12        | 0000000001100 |
| LAMBAYEQUE    | 140000 | 13        | 0000000001101 |
| LIMA          | 150000 | 14        | 0000000001110 |
| CALLAO        | 70000  | 15        | 0000000001111 |
| LORETO        | 160000 | 16        | 0000000010000 |
| MADRE DE DIOS | 170000 | 17        | 0000000010001 |
| MOQUEGUA      | 180000 | 18        | 0000000010010 |
| PASCO         | 190000 | 19        | 0000000010011 |
| PIURA         | 200000 | 20        | 0000000010100 |
| PUNO          | 210000 | 21        | 0000000010101 |
| SAN MARTIN    | 220000 | 22        | 0000000010110 |
| TACNA         | 230000 | 23        | 0000000010111 |
| TUMBES        | 240000 | 24        | 0000000011000 |
| UCAYALI       | 250000 | 25        | 0000000011001 |

##### A.10.2.2 PROVINCE (WIDE AREA)

| PROVINCE             | DEPARTMENT | UBIGEO | AREA CODE |              |
|----------------------|------------|--------|-----------|--------------|
|                      |            |        | decimal   | binary       |
| CHACHAPOYAS          | AMAZONAS   | 010100 | 32        | 000000100000 |
| BAGUA                | AMAZONAS   | 010200 | 64        | 000001000000 |
| BONGARA              | AMAZONAS   | 010300 | 80        | 000001010000 |
| CONDORCANQUI         | AMAZONAS   | 010400 | 96        | 000001100000 |
| LUYA                 | AMAZONAS   | 010500 | 112       | 000001110000 |
| RODRIGUEZ DE MENDOZA | AMAZONAS   | 010600 | 144       | 000010010000 |
| UTCUBAMBA            | AMAZONAS   | 010700 | 160       | 000010100000 |
| HUARAZ               | ANCASH     | 020100 | 192       | 000011000000 |
| AIJA                 | ANCASH     | 020200 | 208       | 000011010000 |

| PROVINCE                  | DEPARTMENT | UBIGEO | AREA CODE |              |
|---------------------------|------------|--------|-----------|--------------|
|                           |            |        | decimal   | binary       |
| ANTONIO RAYMONDI          | ANCASH     | 020300 | 224       | 000011100000 |
| ASUNCION                  | ANCASH     | 020400 | 240       | 000011110000 |
| BOLOGNESI                 | ANCASH     | 020500 | 256       | 000100000000 |
| CARHUAZ                   | ANCASH     | 020600 | 288       | 000100100000 |
| CARLOS FERMIN FITZCARRALD | ANCASH     | 020700 | 304       | 000100110000 |
| CASMA                     | ANCASH     | 020800 | 320       | 000101000000 |
| CORONGO                   | ANCASH     | 020900 | 336       | 000101010000 |
| HUARI                     | ANCASH     | 021000 | 352       | 000101100000 |
| HUARMEY                   | ANCASH     | 021100 | 384       | 000110000000 |
| HUAYLAS                   | ANCASH     | 021200 | 400       | 000110010000 |
| MARISCAL LUZURIAGA        | ANCASH     | 021300 | 416       | 000110100000 |
| OCROS                     | ANCASH     | 021400 | 432       | 000110110000 |
| PALLASCA                  | ANCASH     | 021500 | 448       | 000111000000 |
| POMABAMBA                 | ANCASH     | 021600 | 464       | 000111010000 |
| RECUAY                    | ANCASH     | 021700 | 480       | 000111100000 |
| SANTA                     | ANCASH     | 021800 | 496       | 000111110000 |
| SIHUAS                    | ANCASH     | 021900 | 512       | 001000000000 |
| YUNGAY                    | ANCASH     | 022000 | 528       | 001000010000 |
| ABANCAY                   | APURIMAC   | 030100 | 544       | 001000100000 |
| ANDAHUAYLAS               | APURIMAC   | 030200 | 560       | 001000110000 |
| ANTABAMBA                 | APURIMAC   | 030300 | 592       | 001001010000 |
| AYMARAES                  | APURIMAC   | 030400 | 608       | 001001100000 |
| COTABAMBAS                | APURIMAC   | 030500 | 640       | 001010000000 |
| CHINCHEROS                | APURIMAC   | 030600 | 656       | 001010010000 |
| GRAU                      | APURIMAC   | 030700 | 672       | 001010100000 |
| AREQUIPA                  | AREQUIPA   | 040100 | 704       | 001011000000 |
| CAMANA                    | AREQUIPA   | 040200 | 736       | 001011100000 |
| CARAVELI                  | AREQUIPA   | 040300 | 752       | 001011110000 |
| CASTILLA                  | AREQUIPA   | 040400 | 768       | 001100000000 |
| CAYLLOMA                  | AREQUIPA   | 040500 | 784       | 001100010000 |
| CONDESUYOS                | AREQUIPA   | 040600 | 816       | 001100110000 |
| ISLAY                     | AREQUIPA   | 040700 | 832       | 001101000000 |
| LA UNION                  | AREQUIPA   | 040800 | 848       | 001101010000 |
| HUAMANGA                  | AYACUCHO   | 050100 | 880       | 001101110000 |
| CANGALLO                  | AYACUCHO   | 050200 | 912       | 001110010000 |
| HUANCA SANCOS             | AYACUCHO   | 050300 | 928       | 001110100000 |
| HUANTA                    | AYACUCHO   | 050400 | 944       | 001110110000 |
| LA MAR                    | AYACUCHO   | 050500 | 960       | 001111000000 |
| LUCANAS                   | AYACUCHO   | 050600 | 976       | 001111010000 |
| PARINACOCHAS              | AYACUCHO   | 050700 | 1008      | 001111110000 |
| PAUCAR DEL SARA SARA      | AYACUCHO   | 050800 | 1024      | 010000000000 |
| SUCRE                     | AYACUCHO   | 050900 | 1040      | 010000010000 |
| VICTOR FAJARDO            | AYACUCHO   | 051000 | 1056      | 010000100000 |
| VILCAS HUAMAN             | AYACUCHO   | 051100 | 1072      | 010000110000 |
| CAJAMARCA                 | CAJAMARCA  | 060100 | 1104      | 010001010000 |
| CAJABAMBA                 | CAJAMARCA  | 060200 | 1120      | 010001100000 |
| CELENDIN                  | CAJAMARCA  | 060300 | 1136      | 010001110000 |
| CHOTA                     | CAJAMARCA  | 060400 | 1152      | 010010000000 |
| CONTUMAZA                 | CAJAMARCA  | 060500 | 1184      | 010010100000 |
| CUTERVO                   | CAJAMARCA  | 060600 | 1200      | 010010110000 |
| HUALGAYOC                 | CAJAMARCA  | 060700 | 1232      | 010011010000 |
| JAEN                      | CAJAMARCA  | 060800 | 1248      | 010011100000 |

| PROVINCE       | DEPARTMENT   | UBIGEO | AREA CODE |              |
|----------------|--------------|--------|-----------|--------------|
|                |              |        | decimal   | binary       |
| SAN IGNACIO    | CAJAMARCA    | 060900 | 1264      | 010011110000 |
| SAN MARCOS     | CAJAMARCA    | 061000 | 1280      | 010100000000 |
| SAN MIGUEL     | CAJAMARCA    | 061100 | 1296      | 010100010000 |
| SAN PABLO      | CAJAMARCA    | 061200 | 1312      | 010100100000 |
| SANTA CRUZ     | CAJAMARCA    | 061300 | 1328      | 010100110000 |
| CUSCO          | CUSCO        | 080100 | 1360      | 010101010000 |
| ACOMAYO        | CUSCO        | 080200 | 1376      | 010101100000 |
| ANTA           | CUSCO        | 080300 | 1392      | 010101110000 |
| CALCA          | CUSCO        | 080400 | 1408      | 010110000000 |
| CANAS          | CUSCO        | 080500 | 1424      | 010110010000 |
| CANCHIS        | CUSCO        | 080600 | 1440      | 010110100000 |
| CHUMBIVILCAS   | CUSCO        | 080700 | 1456      | 010110110000 |
| ESPINAR        | CUSCO        | 080800 | 1472      | 010111000000 |
| LA CONVENCION  | CUSCO        | 080900 | 1488      | 010111010000 |
| PARURO         | CUSCO        | 081000 | 1504      | 010111100000 |
| PAUCARTAMBO    | CUSCO        | 081100 | 1520      | 010111110000 |
| QUISPICANCHI   | CUSCO        | 081200 | 1536      | 011000000000 |
| URUBAMBA       | CUSCO        | 081300 | 1552      | 011000010000 |
| HUANCABELICA   | HUANCABELICA | 090100 | 1584      | 011000110000 |
| ACOBAMBA       | HUANCABELICA | 090200 | 1616      | 011001010000 |
| ANGARAES       | HUANCABELICA | 090300 | 1632      | 011001100000 |
| CASTROVIRREYNA | HUANCABELICA | 090400 | 1648      | 011001110000 |
| CHURCAMPA      | HUANCABELICA | 090500 | 1664      | 011010000000 |
| HUAYTARA       | HUANCABELICA | 090600 | 1680      | 011010010000 |
| TAYACAJA       | HUANCABELICA | 090700 | 1712      | 011010110000 |
| HUANUCO        | HUANUCO      | 100100 | 1760      | 011011100000 |
| AMBO           | HUANUCO      | 100200 | 1776      | 011011110000 |
| DOS DE MAYO    | HUANUCO      | 100300 | 1792      | 011100000000 |
| HUACAYBAMBA    | HUANUCO      | 100400 | 1808      | 011100010000 |
| HUAMALIES      | HUANUCO      | 100500 | 1824      | 011100100000 |
| LEONCIO PRADO  | HUANUCO      | 100600 | 1840      | 011100110000 |
| MARAÑON        | HUANUCO      | 100700 | 1856      | 011101000000 |
| PACHITEA       | HUANUCO      | 100800 | 1872      | 011101010000 |
| PUERTO INCA    | HUANUCO      | 100900 | 1888      | 011101100000 |
| LAURICOCHA     | HUANUCO      | 101000 | 1904      | 011101110000 |
| YAROWILCA      | HUANUCO      | 101100 | 1920      | 011110000000 |
| ICA            | ICA          | 110100 | 1952      | 011110100000 |
| CHINCHA        | ICA          | 110200 | 1968      | 011110110000 |
| NAZCA          | ICA          | 110300 | 1984      | 011111000000 |
| PALPA          | ICA          | 110400 | 2000      | 011111010000 |
| PISCO          | ICA          | 110500 | 2016      | 011111100000 |
| HUANCAYO       | JUNIN        | 120100 | 2048      | 100000000000 |
| CONCEPCION     | JUNIN        | 120200 | 2080      | 100000100000 |
| CHANCHAMAYO    | JUNIN        | 120300 | 2112      | 100001000000 |
| JAUJA          | JUNIN        | 120400 | 2128      | 100001010000 |
| JUNIN          | JUNIN        | 120500 | 2176      | 100010000000 |
| SATIPO         | JUNIN        | 120600 | 2192      | 100010010000 |
| TARMA          | JUNIN        | 120700 | 2208      | 100010100000 |
| YAULI          | JUNIN        | 120800 | 2224      | 100010110000 |
| CHUPACA        | JUNIN        | 120900 | 2240      | 100011000000 |
| TRUJILLO       | LA LIBERTAD  | 130100 | 2272      | 100011100000 |
| ASCOPE         | LA LIBERTAD  | 130200 | 2288      | 100011110000 |

| PROVINCE                | DEPARTMENT    | UBIGEO | AREA CODE |              |
|-------------------------|---------------|--------|-----------|--------------|
|                         |               |        | decimal   | binary       |
| BOLIVAR                 | LA LIBERTAD   | 130300 | 2304      | 100100000000 |
| CHEPEN                  | LA LIBERTAD   | 130400 | 2320      | 100100010000 |
| JULCAN                  | LA LIBERTAD   | 130500 | 2336      | 100100100000 |
| OTUZCO                  | LA LIBERTAD   | 130600 | 2352      | 100100110000 |
| PACASMAYO               | LA LIBERTAD   | 130700 | 2368      | 100101000000 |
| PATAZ                   | LA LIBERTAD   | 130800 | 2384      | 100101010000 |
| SANCHEZ CARRION         | LA LIBERTAD   | 130900 | 2400      | 100101100000 |
| SANTIAGO DE CHUCO       | LA LIBERTAD   | 131000 | 2416      | 100101110000 |
| GRAN CHIMU              | LA LIBERTAD   | 131100 | 2432      | 100110000000 |
| VIRU                    | LA LIBERTAD   | 131200 | 2448      | 100110010000 |
| CHICLAYO                | LAMBAYEQUE    | 140100 | 2480      | 100110110000 |
| FERREÑAFE               | LAMBAYEQUE    | 140200 | 2512      | 100111010000 |
| LAMBAYEQUE              | LAMBAYEQUE    | 140300 | 2528      | 100111100000 |
| LIMA                    | LIMA          | 150100 | 2560      | 101000000000 |
| BARRANCA                | LIMA          | 150200 | 2608      | 101000110000 |
| CAJATAMBO               | LIMA          | 150300 | 2624      | 101001000000 |
| CANTA                   | LIMA          | 150400 | 2640      | 101001010000 |
| CAÑETE                  | LIMA          | 150500 | 2656      | 101001100000 |
| HUARAL                  | LIMA          | 150600 | 2688      | 101010000000 |
| HUAROCHIRI              | LIMA          | 150700 | 2704      | 101010010000 |
| HUAURA                  | LIMA          | 150800 | 2752      | 101011000000 |
| OYON                    | LIMA          | 150900 | 2768      | 101011010000 |
| YAUYOS                  | LIMA          | 151000 | 2784      | 101011100000 |
| CALLAO                  | CALLAO        | 070100 | 2848      | 101100100000 |
| MAYNAS                  | LORETO        | 160100 | 2864      | 101100110000 |
| ALTO AMAZONAS           | LORETO        | 160200 | 2880      | 101101000000 |
| LORETO                  | LORETO        | 160300 | 2896      | 101101010000 |
| MARISCAL RAMON CASTILLA | LORETO        | 160400 | 2912      | 101101100000 |
| REQUENA                 | LORETO        | 160500 | 2928      | 101101110000 |
| UCAYALI                 | LORETO        | 160600 | 2944      | 101110000000 |
| DATEM DEL MARAÑON       | LORETO        | 160700 | 2960      | 101110010000 |
| TAMBOPATA               | MADRE DE DIOS | 170100 | 2992      | 101110110000 |
| MANU                    | MADRE DE DIOS | 170200 | 3008      | 101111000000 |
| TAHUAMANU               | MADRE DE DIOS | 170300 | 3024      | 101111010000 |
| MARISCAL NIETO          | MOQUEGUA      | 180100 | 3056      | 101111110000 |
| GENERAL SANCHEZ CERRO   | MOQUEGUA      | 180200 | 3072      | 110000000000 |
| ILO                     | MOQUEGUA      | 180300 | 3088      | 110000010000 |
| PASCO                   | PASCO         | 190100 | 3120      | 110000110000 |
| DANIEL ALCIDES CARRION  | PASCO         | 190200 | 3136      | 110001000000 |
| OXAPAMPA                | PASCO         | 190300 | 3152      | 110001010000 |
| PIURA                   | PIURA         | 200100 | 3184      | 110001110000 |
| AYABACA                 | PIURA         | 200200 | 3200      | 110010000000 |
| HUANCABAMBA             | PIURA         | 200300 | 3216      | 110010010000 |
| MORROPON                | PIURA         | 200400 | 3232      | 110010100000 |
| PAITA                   | PIURA         | 200500 | 3248      | 110010110000 |
| SULLANA                 | PIURA         | 200600 | 3264      | 110011000000 |
| TALAR                   | PIURA         | 200700 | 3280      | 110011010000 |
| SECHURA                 | PIURA         | 200800 | 3296      | 110011100000 |
| PUNO                    | PUNO          | 210100 | 3328      | 110100000000 |
| AZANGARO                | PUNO          | 210200 | 3360      | 110100100000 |
| CARABAYA                | PUNO          | 210300 | 3392      | 110101000000 |
| CHUCUITO                | PUNO          | 210400 | 3408      | 110101010000 |

| PROVINCE              | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------|------------|--------|-----------|--------------|
|                       |            |        | decimal   | binary       |
| EL COLLAO             | PUNO       | 210500 | 3424      | 110101100000 |
| HUANCANE              | PUNO       | 210600 | 3440      | 110101110000 |
| LAMPA                 | PUNO       | 210700 | 3456      | 110110000000 |
| MELGAR                | PUNO       | 210800 | 3472      | 110110010000 |
| MOHO                  | PUNO       | 210900 | 3488      | 110110100000 |
| SAN ANTONIO DE PUTINA | PUNO       | 211000 | 3504      | 110110110000 |
| SAN ROMAN             | PUNO       | 211100 | 3520      | 110111000000 |
| SANDIA                | PUNO       | 211200 | 3536      | 110111010000 |
| YUNGUYO               | PUNO       | 211300 | 3552      | 110111100000 |
| MOYOBAMBA             | SAN MARTIN | 220100 | 3584      | 111000000000 |
| BELLAVISTA            | SAN MARTIN | 220200 | 3600      | 111000010000 |
| EL DORADO             | SAN MARTIN | 220300 | 3616      | 111000100000 |
| HUALLAGA              | SAN MARTIN | 220400 | 3632      | 111000110000 |
| LAMAS                 | SAN MARTIN | 220500 | 3648      | 111001000000 |
| MARISCAL CACERES      | SAN MARTIN | 220600 | 3664      | 111001010000 |
| PICOTA                | SAN MARTIN | 220700 | 3680      | 111001100000 |
| RIOJA                 | SAN MARTIN | 220800 | 3696      | 111001110000 |
| SAN MARTIN            | SAN MARTIN | 220900 | 3712      | 111010000000 |
| TOCACHE               | SAN MARTIN | 221000 | 3728      | 111010010000 |
| TACNA                 | TACNA      | 230100 | 3760      | 111010110000 |
| CANDARAVE             | TACNA      | 230200 | 3776      | 111011000000 |
| JORGE BASADRE         | TACNA      | 230300 | 3792      | 111011010000 |
| TARATA                | TACNA      | 230400 | 3808      | 111011100000 |
| TUMBES                | TUMBES     | 240100 | 3840      | 111100000000 |
| CONTRALMIRANTE VILLAR | TUMBES     | 240200 | 3856      | 111100010000 |
| ZARUMILLA             | TUMBES     | 240300 | 3872      | 111100100000 |
| CORONEL PORTILLO      | UCAYALI    | 250100 | 3904      | 111101000000 |
| ATALAYA               | UCAYALI    | 250200 | 3920      | 111101010000 |
| PADRE ABAD            | UCAYALI    | 250300 | 3936      | 111101100000 |
| PURUS                 | UCAYALI    | 250400 | 3952      | 111101110000 |

#### A.10.2.3 DISTRICT (LOCAL AREA)

| DISTRICT          | PROVINCE    | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------|-------------|------------|--------|-----------|--------------|
|                   |             |            |        | decimal   | binary       |
| CHACHAPOYAS       | CHACHAPOYAS | AMAZONAS   | 010101 | 33        | 000000100001 |
| ASUNCION          | CHACHAPOYAS | AMAZONAS   | 010102 | 34        | 000000100010 |
| BALSAS            | CHACHAPOYAS | AMAZONAS   | 010103 | 35        | 000000100011 |
| CHETO             | CHACHAPOYAS | AMAZONAS   | 010104 | 36        | 000000100100 |
| CHILIQUIN         | CHACHAPOYAS | AMAZONAS   | 010105 | 37        | 000000100101 |
| CHUQUIBAMBA       | CHACHAPOYAS | AMAZONAS   | 010106 | 38        | 000000100110 |
| GRANADA           | CHACHAPOYAS | AMAZONAS   | 010107 | 39        | 000000100111 |
| HUANCAS           | CHACHAPOYAS | AMAZONAS   | 010108 | 40        | 000000101000 |
| LA JALCA          | CHACHAPOYAS | AMAZONAS   | 010109 | 41        | 000000101001 |
| LEIMEBAMBA        | CHACHAPOYAS | AMAZONAS   | 010110 | 42        | 000000101010 |
| LEVANTO           | CHACHAPOYAS | AMAZONAS   | 010111 | 43        | 000000101011 |
| MAGDALENA         | CHACHAPOYAS | AMAZONAS   | 010112 | 44        | 000000101100 |
| MARISCAL CASTILLA | CHACHAPOYAS | AMAZONAS   | 010113 | 45        | 000000101101 |
| MOLINOPAMPA       | CHACHAPOYAS | AMAZONAS   | 010114 | 46        | 000000101110 |
| MONTEVIDEO        | CHACHAPOYAS | AMAZONAS   | 010115 | 47        | 000000101111 |
| OLLEROS           | CHACHAPOYAS | AMAZONAS   | 010116 | 48        | 000000110000 |
| QUINJALCA         | CHACHAPOYAS | AMAZONAS   | 010117 | 49        | 000000110001 |

| DISTRICT                | PROVINCE             | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------|----------------------|------------|--------|-----------|--------------|
|                         |                      |            |        | decimal   | binary       |
| SAN FRANCISCO DE DAGUAS | CHACHAPOYAS          | AMAZONAS   | 010118 | 50        | 000000110010 |
| SAN ISIDRO DE MAINO     | CHACHAPOYAS          | AMAZONAS   | 010119 | 51        | 000000110011 |
| SOLOCO                  | CHACHAPOYAS          | AMAZONAS   | 010120 | 52        | 000000110100 |
| SONCHE                  | CHACHAPOYAS          | AMAZONAS   | 010121 | 53        | 000000110101 |
| BAGUA                   | BAGUA                | AMAZONAS   | 010201 | 65        | 000001000001 |
| ARAMANGO                | BAGUA                | AMAZONAS   | 010202 | 66        | 000001000010 |
| COPALLIN                | BAGUA                | AMAZONAS   | 010203 | 67        | 000001000011 |
| EL PARCO                | BAGUA                | AMAZONAS   | 010204 | 68        | 000001000100 |
| IMAZA                   | BAGUA                | AMAZONAS   | 010205 | 69        | 000001000101 |
| LA PECA                 | BAGUA                | AMAZONAS   | 010206 | 70        | 000001000110 |
| JUMBILLA                | BONGARA              | AMAZONAS   | 010301 | 81        | 000001010001 |
| CHISQUILLA              | BONGARA              | AMAZONAS   | 010302 | 82        | 000001010010 |
| CHURUJA                 | BONGARA              | AMAZONAS   | 010303 | 83        | 000001010011 |
| COROSHA                 | BONGARA              | AMAZONAS   | 010304 | 84        | 000001010100 |
| CUISPES                 | BONGARA              | AMAZONAS   | 010305 | 85        | 000001010101 |
| FLORIDA                 | BONGARA              | AMAZONAS   | 010306 | 86        | 000001010110 |
| JAZAN                   | BONGARA              | AMAZONAS   | 010307 | 87        | 000001010111 |
| RECTA                   | BONGARA              | AMAZONAS   | 010308 | 88        | 000001011000 |
| SAN CARLOS              | BONGARA              | AMAZONAS   | 010309 | 89        | 000001011001 |
| SHIPASBAMBA             | BONGARA              | AMAZONAS   | 010310 | 90        | 000001011010 |
| VALERA                  | BONGARA              | AMAZONAS   | 010311 | 91        | 000001011011 |
| YAMBRASBAMBA            | BONGARA              | AMAZONAS   | 010312 | 92        | 000001011100 |
| NIEVA                   | CONDORCANQUI         | AMAZONAS   | 010401 | 97        | 000001100001 |
| EL CENEPA               | CONDORCANQUI         | AMAZONAS   | 010402 | 98        | 000001100010 |
| RIO SANTIAGO            | CONDORCANQUI         | AMAZONAS   | 010403 | 99        | 000001100011 |
| LAMUD                   | LUYA                 | AMAZONAS   | 010501 | 113       | 000001110001 |
| CAMPORREDONDO           | LUYA                 | AMAZONAS   | 010502 | 114       | 000001110010 |
| COCABAMBA               | LUYA                 | AMAZONAS   | 010503 | 115       | 000001110011 |
| COLCAMAR                | LUYA                 | AMAZONAS   | 010504 | 116       | 000001110100 |
| CONILA                  | LUYA                 | AMAZONAS   | 010505 | 117       | 000001110101 |
| INGUILPATA              | LUYA                 | AMAZONAS   | 010506 | 118       | 000001110110 |
| LONGUITA                | LUYA                 | AMAZONAS   | 010507 | 119       | 000001110111 |
| LONYA CHICO             | LUYA                 | AMAZONAS   | 010508 | 120       | 000001111000 |
| LUYA                    | LUYA                 | AMAZONAS   | 010509 | 121       | 000001111001 |
| LUYA VIEJO              | LUYA                 | AMAZONAS   | 010510 | 122       | 000001111010 |
| MARIA                   | LUYA                 | AMAZONAS   | 010511 | 123       | 000001111011 |
| OCALLI                  | LUYA                 | AMAZONAS   | 010512 | 124       | 000001111100 |
| OCUMAL                  | LUYA                 | AMAZONAS   | 010513 | 125       | 000001111101 |
| PISUQUIA                | LUYA                 | AMAZONAS   | 010514 | 126       | 000001111110 |
| PROVIDENCIA             | LUYA                 | AMAZONAS   | 010515 | 127       | 000001111111 |
| SAN CRISTOBAL           | LUYA                 | AMAZONAS   | 010516 | 128       | 000010000000 |
| SAN FRANCISCO DEL YESO  | LUYA                 | AMAZONAS   | 010517 | 129       | 000010000001 |
| SAN JERONIMO            | LUYA                 | AMAZONAS   | 010518 | 130       | 000010000010 |
| SAN JUAN DE LOPECANCHA  | LUYA                 | AMAZONAS   | 010519 | 131       | 000010000011 |
| SANTA CATALINA          | LUYA                 | AMAZONAS   | 010520 | 132       | 000010000100 |
| SANTO TOMAS             | LUYA                 | AMAZONAS   | 010521 | 133       | 000010000101 |
| TINGO                   | LUYA                 | AMAZONAS   | 010522 | 134       | 000010000110 |
| TRITA                   | LUYA                 | AMAZONAS   | 010523 | 135       | 000010000111 |
| SAN NICOLAS             | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010601 | 145       | 000010010001 |
| CHIRIMOTO               | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010602 | 146       | 000010010010 |
| COCHAMAL                | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010603 | 147       | 000010010011 |
| HUAMBO                  | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010604 | 148       | 000010010100 |
| LIMABAMBA               | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010605 | 149       | 000010010101 |
| LONGAR                  | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010606 | 150       | 000010010110 |
| MARISCAL BENAVIDES      | RODRIGUEZ DE         | AMAZONAS   | 010607 | 151       | 000010010111 |

| DISTRICT                | PROVINCE             | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------|----------------------|------------|--------|-----------|--------------|
|                         |                      |            |        | decimal   | binary       |
|                         | MENDOZA              |            |        |           |              |
| MILPUC                  | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010608 | 152       | 000010011000 |
| OMIA                    | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010609 | 153       | 000010011001 |
| SANTA ROSA              | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010610 | 154       | 000010011010 |
| TOTORA                  | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010611 | 155       | 000010011011 |
| VISTA ALEGRE            | RODRIGUEZ DE MENDOZA | AMAZONAS   | 010612 | 156       | 000010011100 |
| BAGUA GRANDE            | UTCUBAMBA            | AMAZONAS   | 010701 | 161       | 000010100001 |
| CAJARURO                | UTCUBAMBA            | AMAZONAS   | 010702 | 162       | 000010100010 |
| CUMBA                   | UTCUBAMBA            | AMAZONAS   | 010703 | 163       | 000010100011 |
| EL MILAGRO              | UTCUBAMBA            | AMAZONAS   | 010704 | 164       | 000010100100 |
| JAMALCA                 | UTCUBAMBA            | AMAZONAS   | 010705 | 165       | 000010100101 |
| LONYA GRANDE            | UTCUBAMBA            | AMAZONAS   | 010706 | 166       | 000010100110 |
| YAMON                   | UTCUBAMBA            | AMAZONAS   | 010707 | 167       | 000010100111 |
| HUARAZ                  | HUARAZ               | ANCASH     | 020101 | 193       | 000011000001 |
| COCHABAMBA              | HUARAZ               | ANCASH     | 020102 | 194       | 000011000010 |
| COLCABAMBA              | HUARAZ               | ANCASH     | 020103 | 195       | 000011000011 |
| HUANCHAY                | HUARAZ               | ANCASH     | 020104 | 196       | 000011000100 |
| INDEPENDENCIA           | HUARAZ               | ANCASH     | 020105 | 197       | 000011000101 |
| JANGAS                  | HUARAZ               | ANCASH     | 020106 | 198       | 000011000110 |
| LA LIBERTAD             | HUARAZ               | ANCASH     | 020107 | 199       | 000011000111 |
| OLLEROS                 | HUARAZ               | ANCASH     | 020108 | 200       | 000011001000 |
| PAMPAS                  | HUARAZ               | ANCASH     | 020109 | 201       | 000011001001 |
| PARIACOTO               | HUARAZ               | ANCASH     | 020110 | 202       | 000011001010 |
| PIRA                    | HUARAZ               | ANCASH     | 020111 | 203       | 000011001011 |
| TARICA                  | HUARAZ               | ANCASH     | 020112 | 204       | 000011001100 |
| AIJA                    | AIJA                 | ANCASH     | 020201 | 209       | 000011010001 |
| CORIS                   | AIJA                 | ANCASH     | 020202 | 210       | 000011010010 |
| HUACLLAN                | AIJA                 | ANCASH     | 020203 | 211       | 000011010011 |
| LA MERCED               | AIJA                 | ANCASH     | 020204 | 212       | 000011010100 |
| SUCCHA                  | AIJA                 | ANCASH     | 020205 | 213       | 000011010101 |
| LLAMELLIN               | ANTONIO RAYMONDI     | ANCASH     | 020301 | 225       | 000011100001 |
| ACZO                    | ANTONIO RAYMONDI     | ANCASH     | 020302 | 226       | 000011100010 |
| CHACCHO                 | ANTONIO RAYMONDI     | ANCASH     | 020303 | 227       | 000011100011 |
| CHINGAS                 | ANTONIO RAYMONDI     | ANCASH     | 020304 | 228       | 000011100100 |
| MIRGAS                  | ANTONIO RAYMONDI     | ANCASH     | 020305 | 229       | 000011100101 |
| SAN JUAN DE RONTOP      | ANTONIO RAYMONDI     | ANCASH     | 020306 | 230       | 000011100110 |
| CHACAS                  | ASUNCION             | ANCASH     | 020401 | 241       | 000011110001 |
| ACOCHACA                | ASUNCION             | ANCASH     | 020402 | 242       | 000011110010 |
| CHIQUIAN                | BOLOGNESI            | ANCASH     | 020501 | 257       | 000100000001 |
| ABELARDO PARDO LEZAMETA | BOLOGNESI            | ANCASH     | 020502 | 258       | 000100000010 |
| ANTONIO RAYMONDI        | BOLOGNESI            | ANCASH     | 020503 | 259       | 000100000011 |
| AQUIA                   | BOLOGNESI            | ANCASH     | 020504 | 260       | 000100000100 |
| CAJACAY                 | BOLOGNESI            | ANCASH     | 020505 | 261       | 000100000101 |
| CANIS                   | BOLOGNESI            | ANCASH     | 020506 | 262       | 000100000110 |
| COLQUIOC                | BOLOGNESI            | ANCASH     | 020507 | 263       | 000100000111 |
| HUALLANCA               | BOLOGNESI            | ANCASH     | 020508 | 264       | 000100001000 |
| HUASTA                  | BOLOGNESI            | ANCASH     | 020509 | 265       | 000100001001 |
| HUAYLLACAYAN            | BOLOGNESI            | ANCASH     | 020510 | 266       | 000100001010 |
| LA PRIMAVERA            | BOLOGNESI            | ANCASH     | 020511 | 267       | 000100001011 |
| MANGAS                  | BOLOGNESI            | ANCASH     | 020512 | 268       | 000100001100 |
| PACLLON                 | BOLOGNESI            | ANCASH     | 020513 | 269       | 000100001101 |
| SAN MIGUEL DE CORPANQUI | BOLOGNESI            | ANCASH     | 020514 | 270       | 000100001110 |
| TICLLOS                 | BOLOGNESI            | ANCASH     | 020515 | 271       | 000100001111 |
| CARHUAZ                 | CARHUAZ              | ANCASH     | 020601 | 289       | 000100100001 |
| ACOPAMPA                | CARHUAZ              | ANCASH     | 020602 | 290       | 000100100010 |

| DISTRICT              | PROVINCE                  | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------|---------------------------|------------|--------|-----------|--------------|
|                       |                           |            |        | decimal   | binary       |
| AMASHCA               | CARHUAZ                   | ANCASH     | 020603 | 291       | 000100100011 |
| ANTA                  | CARHUAZ                   | ANCASH     | 020604 | 292       | 000100100100 |
| ATAQUERO              | CARHUAZ                   | ANCASH     | 020605 | 293       | 000100100101 |
| MARCARA               | CARHUAZ                   | ANCASH     | 020606 | 294       | 000100100110 |
| PARIAHUANCA           | CARHUAZ                   | ANCASH     | 020607 | 295       | 000100100111 |
| SAN MIGUEL DE ACO     | CARHUAZ                   | ANCASH     | 020608 | 296       | 000100101000 |
| SHILLA                | CARHUAZ                   | ANCASH     | 020609 | 297       | 000100101001 |
| TINCO                 | CARHUAZ                   | ANCASH     | 020610 | 298       | 000100101010 |
| YUNGAR                | CARHUAZ                   | ANCASH     | 020611 | 299       | 000100101011 |
| SAN LUIS              | CARLOS FERMIN FITZCARRALD | ANCASH     | 020701 | 305       | 000100110001 |
| SAN NICOLAS           | CARLOS FERMIN FITZCARRALD | ANCASH     | 020702 | 306       | 000100110010 |
| YAUYA                 | CARLOS FERMIN FITZCARRALD | ANCASH     | 020703 | 307       | 000100110011 |
| CASMA                 | CASMA                     | ANCASH     | 020801 | 321       | 000101000001 |
| BUENA VISTA ALTA      | CASMA                     | ANCASH     | 020802 | 322       | 000101000010 |
| COMANDANTE NOEL       | CASMA                     | ANCASH     | 020803 | 323       | 000101000011 |
| YAUTAN                | CASMA                     | ANCASH     | 020804 | 324       | 000101000100 |
| CORONGO               | CORONGO                   | ANCASH     | 020901 | 337       | 000101010001 |
| ACO                   | CORONGO                   | ANCASH     | 020902 | 338       | 000101010010 |
| BAMBAS                | CORONGO                   | ANCASH     | 020903 | 339       | 000101010011 |
| CUSCA                 | CORONGO                   | ANCASH     | 020904 | 340       | 000101010100 |
| LA PAMPA              | CORONGO                   | ANCASH     | 020905 | 341       | 000101010101 |
| YANAC                 | CORONGO                   | ANCASH     | 020906 | 342       | 000101010110 |
| YUPAN                 | CORONGO                   | ANCASH     | 020907 | 343       | 000101010111 |
| HUARI                 | HUARI                     | ANCASH     | 021001 | 353       | 000101100001 |
| ANRA                  | HUARI                     | ANCASH     | 021002 | 354       | 000101100010 |
| CAJAY                 | HUARI                     | ANCASH     | 021003 | 355       | 000101100011 |
| CHAVIN DE HUANTAR     | HUARI                     | ANCASH     | 021004 | 356       | 000101100100 |
| HUACACHI              | HUARI                     | ANCASH     | 021005 | 357       | 000101100101 |
| HUACCHIS              | HUARI                     | ANCASH     | 021006 | 358       | 000101100110 |
| HUACHIS               | HUARI                     | ANCASH     | 021007 | 359       | 000101100111 |
| HUANTAR               | HUARI                     | ANCASH     | 021008 | 360       | 000101101000 |
| MASIN                 | HUARI                     | ANCASH     | 021009 | 361       | 000101101001 |
| PAUCAS                | HUARI                     | ANCASH     | 021010 | 362       | 000101101010 |
| PONTO                 | HUARI                     | ANCASH     | 021011 | 363       | 000101101011 |
| RAHUAPAMPA            | HUARI                     | ANCASH     | 021012 | 364       | 000101101100 |
| RAPAYAN               | HUARI                     | ANCASH     | 021013 | 365       | 000101101101 |
| SAN MARCOS            | HUARI                     | ANCASH     | 021014 | 366       | 000101101110 |
| SAN PEDRO DE CHANA    | HUARI                     | ANCASH     | 021015 | 367       | 000101101111 |
| UCO                   | HUARI                     | ANCASH     | 021016 | 368       | 000101110000 |
| HUARMEMY              | HUARMEMY                  | ANCASH     | 021101 | 385       | 000110000001 |
| COCHAPETI             | HUARMEMY                  | ANCASH     | 021102 | 386       | 000110000010 |
| CULEBRAS              | HUARMEMY                  | ANCASH     | 021103 | 387       | 000110000011 |
| HUAYAN                | HUARMEMY                  | ANCASH     | 021104 | 388       | 000110000100 |
| MALVAS                | HUARMEMY                  | ANCASH     | 021105 | 389       | 000110000101 |
| CARAZ                 | HUAYLAS                   | ANCASH     | 021201 | 401       | 000110010001 |
| HUALLANCA             | HUAYLAS                   | ANCASH     | 021202 | 402       | 000110010010 |
| HUATA                 | HUAYLAS                   | ANCASH     | 021203 | 403       | 000110010011 |
| HUAYLAS               | HUAYLAS                   | ANCASH     | 021204 | 404       | 000110010100 |
| MATO                  | HUAYLAS                   | ANCASH     | 021205 | 405       | 000110010101 |
| PAMPAROMAS            | HUAYLAS                   | ANCASH     | 021206 | 406       | 000110010110 |
| PUEBLO LIBRE          | HUAYLAS                   | ANCASH     | 021207 | 407       | 000110010111 |
| SANTA CRUZ            | HUAYLAS                   | ANCASH     | 021208 | 408       | 000110011000 |
| SANTO TORIBIO         | HUAYLAS                   | ANCASH     | 021209 | 409       | 000110011001 |
| YURACMARCA            | HUAYLAS                   | ANCASH     | 021210 | 410       | 000110011010 |
| PISCOBAMBA            | MARISCAL LUZURIAGA        | ANCASH     | 021301 | 417       | 000110100001 |
| CASCA                 | MARISCAL LUZURIAGA        | ANCASH     | 021302 | 418       | 000110100010 |
| ELEAZAR GUZMAN BARRON | MARISCAL LUZURIAGA        | ANCASH     | 021303 | 419       | 000110100011 |

| DISTRICT               | PROVINCE           | DEPARTMENT | UBIGEO | AREA CODE |              |
|------------------------|--------------------|------------|--------|-----------|--------------|
|                        |                    |            |        | decimal   | binary       |
| FIDEL OLIVAS ESCUDERO  | MARISCAL LUZURIAGA | ANCASH     | 021304 | 420       | 000110100100 |
| LLAMA                  | MARISCAL LUZURIAGA | ANCASH     | 021305 | 421       | 000110100101 |
| LLUMPA                 | MARISCAL LUZURIAGA | ANCASH     | 021306 | 422       | 000110100110 |
| LUCMA                  | MARISCAL LUZURIAGA | ANCASH     | 021307 | 423       | 000110100111 |
| MUSGA                  | MARISCAL LUZURIAGA | ANCASH     | 021308 | 424       | 000110101000 |
| OCROS                  | OCROS              | ANCASH     | 021401 | 433       | 000110110001 |
| ACAS                   | OCROS              | ANCASH     | 021402 | 434       | 000110110010 |
| CAJAMARQUILLA          | OCROS              | ANCASH     | 021403 | 435       | 000110110011 |
| CARHUAPAMPA            | OCROS              | ANCASH     | 021404 | 436       | 000110110100 |
| COCHAS                 | OCROS              | ANCASH     | 021405 | 437       | 000110110101 |
| CONGAS                 | OCROS              | ANCASH     | 021406 | 438       | 000110110110 |
| LLIPA                  | OCROS              | ANCASH     | 021407 | 439       | 000110110111 |
| SAN CRISTOBAL DE RAJAN | OCROS              | ANCASH     | 021408 | 440       | 000110111000 |
| SAN PEDRO              | OCROS              | ANCASH     | 021409 | 441       | 000110111001 |
| SANTIAGO DE CHILCAS    | OCROS              | ANCASH     | 021410 | 442       | 000110111010 |
| CABANA                 | PALLASCA           | ANCASH     | 021501 | 449       | 000111000001 |
| BOLOGNESI              | PALLASCA           | ANCASH     | 021502 | 450       | 000111000010 |
| CONCHUCOS              | PALLASCA           | ANCASH     | 021503 | 451       | 000111000011 |
| HUACASCHUQUE           | PALLASCA           | ANCASH     | 021504 | 452       | 000111000100 |
| HUANDOVAL              | PALLASCA           | ANCASH     | 021505 | 453       | 000111000101 |
| LACABAMBA              | PALLASCA           | ANCASH     | 021506 | 454       | 000111000110 |
| LLAPO                  | PALLASCA           | ANCASH     | 021507 | 455       | 000111000111 |
| PALLASCA               | PALLASCA           | ANCASH     | 021508 | 456       | 000111001000 |
| PAMPAS                 | PALLASCA           | ANCASH     | 021509 | 457       | 000111001001 |
| SANTA ROSA             | PALLASCA           | ANCASH     | 021510 | 458       | 000111001010 |
| TAUCA                  | PALLASCA           | ANCASH     | 021511 | 459       | 000111001011 |
| POMABAMBA              | POMABAMBA          | ANCASH     | 021601 | 465       | 000111010001 |
| HUAYLLAN               | POMABAMBA          | ANCASH     | 021602 | 466       | 000111010010 |
| PAROBAMBA              | POMABAMBA          | ANCASH     | 021603 | 467       | 000111010011 |
| QUINUABAMBA            | POMABAMBA          | ANCASH     | 021604 | 468       | 000111010100 |
| RECUAY                 | RECUAY             | ANCASH     | 021701 | 481       | 000111100001 |
| CATAC                  | RECUAY             | ANCASH     | 021702 | 482       | 000111100010 |
| COTAPARACO             | RECUAY             | ANCASH     | 021703 | 483       | 000111100011 |
| HUAYLLAPAMPA           | RECUAY             | ANCASH     | 021704 | 484       | 000111100100 |
| LLACLLIN               | RECUAY             | ANCASH     | 021705 | 485       | 000111100101 |
| MARCA                  | RECUAY             | ANCASH     | 021706 | 486       | 000111100110 |
| PAMPAS CHICO           | RECUAY             | ANCASH     | 021707 | 487       | 000111100111 |
| PARARIN                | RECUAY             | ANCASH     | 021708 | 488       | 000111101000 |
| TAPACOCHA              | RECUAY             | ANCASH     | 021709 | 489       | 000111101001 |
| TICAPAMPA              | RECUAY             | ANCASH     | 021710 | 490       | 000111101010 |
| CHIMBOTE               | SANTA              | ANCASH     | 021801 | 497       | 000111110001 |
| CACERES DEL PERU       | SANTA              | ANCASH     | 021802 | 498       | 000111110010 |
| COISHCO                | SANTA              | ANCASH     | 021803 | 499       | 000111110011 |
| MACATE                 | SANTA              | ANCASH     | 021804 | 500       | 000111110100 |
| MORO                   | SANTA              | ANCASH     | 021805 | 501       | 000111110101 |
| NEPEÑA                 | SANTA              | ANCASH     | 021806 | 502       | 000111110110 |
| SAMANCO                | SANTA              | ANCASH     | 021807 | 503       | 000111110111 |
| SANTA                  | SANTA              | ANCASH     | 021808 | 504       | 000111111000 |
| NUEVO CHIMBOTE         | SANTA              | ANCASH     | 021809 | 505       | 000111111001 |
| SIHUAS                 | SIHUAS             | ANCASH     | 021901 | 513       | 001000000001 |
| ACOBAMBA               | SIHUAS             | ANCASH     | 021902 | 514       | 001000000010 |
| ALFONSO UGARTE         | SIHUAS             | ANCASH     | 021903 | 515       | 001000000011 |
| CASHAPAMPA             | SIHUAS             | ANCASH     | 021904 | 516       | 001000000100 |
| CHINGALPO              | SIHUAS             | ANCASH     | 021905 | 517       | 001000000101 |
| HUAYLLABAMBA           | SIHUAS             | ANCASH     | 021906 | 518       | 001000000110 |
| QUICHES                | SIHUAS             | ANCASH     | 021907 | 519       | 001000000111 |
| RAGASH                 | SIHUAS             | ANCASH     | 021908 | 520       | 001000001000 |
| SAN JUAN               | SIHUAS             | ANCASH     | 021909 | 521       | 001000001001 |

| DISTRICT                 | PROVINCE    | DEPARTMENT | UBIGEO | AREA CODE |              |
|--------------------------|-------------|------------|--------|-----------|--------------|
|                          |             |            |        | decimal   | binary       |
| SICSIBAMBA               | SIHUAS      | ANCASH     | 021910 | 522       | 001000001010 |
| YUNGAY                   | YUNGAY      | ANCASH     | 022001 | 529       | 001000010001 |
| CASCAPARA                | YUNGAY      | ANCASH     | 022002 | 530       | 001000010010 |
| MANCOS                   | YUNGAY      | ANCASH     | 022003 | 531       | 001000010011 |
| MATACOTO                 | YUNGAY      | ANCASH     | 022004 | 532       | 001000010100 |
| QUILLO                   | YUNGAY      | ANCASH     | 022005 | 533       | 001000010101 |
| RANRAHIRCA               | YUNGAY      | ANCASH     | 022006 | 534       | 001000010110 |
| SHUPLUY                  | YUNGAY      | ANCASH     | 022007 | 535       | 001000010111 |
| YANAMA                   | YUNGAY      | ANCASH     | 022008 | 536       | 001000011000 |
| ABANCAY                  | ABANCAY     | APURIMAC   | 030101 | 545       | 001000100001 |
| CHACOCHE                 | ABANCAY     | APURIMAC   | 030102 | 546       | 001000100010 |
| CIRCA                    | ABANCAY     | APURIMAC   | 030103 | 547       | 001000100011 |
| CURAHUASI                | ABANCAY     | APURIMAC   | 030104 | 548       | 001000100100 |
| HUANIPACA                | ABANCAY     | APURIMAC   | 030105 | 549       | 001000100101 |
| LAMBRAMA                 | ABANCAY     | APURIMAC   | 030106 | 550       | 001000100110 |
| PICHIRHUA                | ABANCAY     | APURIMAC   | 030107 | 551       | 001000100111 |
| SAN PEDRO DE CACHORA     | ABANCAY     | APURIMAC   | 030108 | 552       | 001000101000 |
| TAMBURCO                 | ABANCAY     | APURIMAC   | 030109 | 553       | 001000101001 |
| ANDAHUAYLAS              | ANDAHUAYLAS | APURIMAC   | 030201 | 561       | 001000110001 |
| ANDARAPA                 | ANDAHUAYLAS | APURIMAC   | 030202 | 562       | 001000110010 |
| CHIARA                   | ANDAHUAYLAS | APURIMAC   | 030203 | 563       | 001000110011 |
| HUANCARAMA               | ANDAHUAYLAS | APURIMAC   | 030204 | 564       | 001000110100 |
| HUANCARAY                | ANDAHUAYLAS | APURIMAC   | 030205 | 565       | 001000110101 |
| HUAYANA                  | ANDAHUAYLAS | APURIMAC   | 030206 | 566       | 001000110110 |
| KISHUARA                 | ANDAHUAYLAS | APURIMAC   | 030207 | 567       | 001000110111 |
| PACOBAMBA                | ANDAHUAYLAS | APURIMAC   | 030208 | 568       | 001000111000 |
| PACUCHA                  | ANDAHUAYLAS | APURIMAC   | 030209 | 569       | 001000111001 |
| PAMPACHIRI               | ANDAHUAYLAS | APURIMAC   | 030210 | 570       | 001000111010 |
| POMACOCHA                | ANDAHUAYLAS | APURIMAC   | 030211 | 571       | 001000111011 |
| SAN ANTONIO DE CACHI     | ANDAHUAYLAS | APURIMAC   | 030212 | 572       | 001000111100 |
| SAN JERONIMO             | ANDAHUAYLAS | APURIMAC   | 030213 | 573       | 001000111101 |
| SAN MIGUEL DE CHACCRAMPA | ANDAHUAYLAS | APURIMAC   | 030214 | 574       | 001000111110 |
| SANTA MARIA DE CHICMO    | ANDAHUAYLAS | APURIMAC   | 030215 | 575       | 001000111111 |
| TALAVERA                 | ANDAHUAYLAS | APURIMAC   | 030216 | 576       | 001001000000 |
| TUMAY HUARACA            | ANDAHUAYLAS | APURIMAC   | 030217 | 577       | 001001000001 |
| TURPO                    | ANDAHUAYLAS | APURIMAC   | 030218 | 578       | 001001000010 |
| KAQUIABAMBA              | ANDAHUAYLAS | APURIMAC   | 030219 | 579       | 001001000011 |
| ANTABAMBA                | ANTABAMBA   | APURIMAC   | 030301 | 593       | 001001010001 |
| EL ORO                   | ANTABAMBA   | APURIMAC   | 030302 | 594       | 001001010010 |
| HUAQUIRCA                | ANTABAMBA   | APURIMAC   | 030303 | 595       | 001001010011 |
| JUAN ESPINOZA MEDRANO    | ANTABAMBA   | APURIMAC   | 030304 | 596       | 001001010100 |
| OROPESA                  | ANTABAMBA   | APURIMAC   | 030305 | 597       | 001001010101 |
| PACHACONAS               | ANTABAMBA   | APURIMAC   | 030306 | 598       | 001001010110 |
| SABAINO                  | ANTABAMBA   | APURIMAC   | 030307 | 599       | 001001010111 |
| CHALHUANCA               | AYMARAES    | APURIMAC   | 030401 | 609       | 001001100001 |
| CAPAYA                   | AYMARAES    | APURIMAC   | 030402 | 610       | 001001100010 |
| CARAYBAMBA               | AYMARAES    | APURIMAC   | 030403 | 611       | 001001100011 |
| CHAPIMARCA               | AYMARAES    | APURIMAC   | 030404 | 612       | 001001100100 |
| COLCABAMBA               | AYMARAES    | APURIMAC   | 030405 | 613       | 001001100101 |
| COTARUSE                 | AYMARAES    | APURIMAC   | 030406 | 614       | 001001100110 |
| HUAYLLO                  | AYMARAES    | APURIMAC   | 030407 | 615       | 001001100111 |
| JUSTO APU SAHUARAURA     | AYMARAES    | APURIMAC   | 030408 | 616       | 001001101000 |
| LUCRE                    | AYMARAES    | APURIMAC   | 030409 | 617       | 001001101001 |
| POCOHUANCA               | AYMARAES    | APURIMAC   | 030410 | 618       | 001001101010 |
| SAN JUAN DE CHACÑA       | AYMARAES    | APURIMAC   | 030411 | 619       | 001001101011 |
| SAÑAYCA                  | AYMARAES    | APURIMAC   | 030412 | 620       | 001001101100 |
| SORAYA                   | AYMARAES    | APURIMAC   | 030413 | 621       | 001001101101 |
| TAPAIRIHUA               | AYMARAES    | APURIMAC   | 030414 | 622       | 001001101110 |

| DISTRICT               | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|------------------------|------------|------------|--------|-----------|--------------|
|                        |            |            |        | decimal   | binary       |
| TINTAY                 | AYMARAES   | APURIMAC   | 030415 | 623       | 001001101111 |
| TORAYA                 | AYMARAES   | APURIMAC   | 030416 | 624       | 001001110000 |
| YANACA                 | AYMARAES   | APURIMAC   | 030417 | 625       | 001001110001 |
| TAMBOBAMBA             | COTABAMBAS | APURIMAC   | 030501 | 641       | 001010000001 |
| COTABAMBAS             | COTABAMBAS | APURIMAC   | 030502 | 642       | 001010000010 |
| COYLLURQUI             | COTABAMBAS | APURIMAC   | 030503 | 643       | 001010000011 |
| HAQUIRA                | COTABAMBAS | APURIMAC   | 030504 | 644       | 001010000100 |
| MARA                   | COTABAMBAS | APURIMAC   | 030505 | 645       | 001010000101 |
| CHALLHUAHUACHO         | COTABAMBAS | APURIMAC   | 030506 | 646       | 001010000110 |
| CHINCHEROS             | CHINCHEROS | APURIMAC   | 030601 | 657       | 001010010001 |
| ANCO_HUALLO            | CHINCHEROS | APURIMAC   | 030602 | 658       | 001010010010 |
| COCHARCAS              | CHINCHEROS | APURIMAC   | 030603 | 659       | 001010010011 |
| HUACCANA               | CHINCHEROS | APURIMAC   | 030604 | 660       | 001010010100 |
| OCOBAMBA               | CHINCHEROS | APURIMAC   | 030605 | 661       | 001010010101 |
| ONGOY                  | CHINCHEROS | APURIMAC   | 030606 | 662       | 001010010110 |
| URANMARCA              | CHINCHEROS | APURIMAC   | 030607 | 663       | 001010010111 |
| RANRACANCHA            | CHINCHEROS | APURIMAC   | 030608 | 664       | 001010011000 |
| CHUQUIBAMBILLA         | GRAU       | APURIMAC   | 030701 | 673       | 001010100001 |
| CURPAHUASI             | GRAU       | APURIMAC   | 030702 | 674       | 001010100010 |
| GAMARRA                | GRAU       | APURIMAC   | 030703 | 675       | 001010100011 |
| HUAYLLATI              | GRAU       | APURIMAC   | 030704 | 676       | 001010100100 |
| MAMARA                 | GRAU       | APURIMAC   | 030705 | 677       | 001010100101 |
| MICAELO BASTIDAS       | GRAU       | APURIMAC   | 030706 | 678       | 001010100110 |
| PATAYPAMPA             | GRAU       | APURIMAC   | 030707 | 679       | 001010100111 |
| PROGRESO               | GRAU       | APURIMAC   | 030708 | 680       | 001010101000 |
| SAN ANTONIO            | GRAU       | APURIMAC   | 030709 | 681       | 001010101001 |
| SANTA ROSA             | GRAU       | APURIMAC   | 030710 | 682       | 001010101010 |
| TURPAY                 | GRAU       | APURIMAC   | 030711 | 683       | 001010101011 |
| VILCABAMBA             | GRAU       | APURIMAC   | 030712 | 684       | 001010101100 |
| VIRUNDO                | GRAU       | APURIMAC   | 030713 | 685       | 001010101101 |
| CURASCO                | GRAU       | APURIMAC   | 030714 | 686       | 001010101110 |
| AREQUIPA               | AREQUIPA   | AREQUIPA   | 040101 | 705       | 001011000001 |
| ALTO SELVA ALEGRE      | AREQUIPA   | AREQUIPA   | 040102 | 706       | 001011000010 |
| CAYMA                  | AREQUIPA   | AREQUIPA   | 040103 | 707       | 001011000011 |
| CERRO COLORADO         | AREQUIPA   | AREQUIPA   | 040104 | 708       | 001011000100 |
| CHARACATO              | AREQUIPA   | AREQUIPA   | 040105 | 709       | 001011000101 |
| CHIGUATA               | AREQUIPA   | AREQUIPA   | 040106 | 710       | 001011000110 |
| JACOBO HUNTER          | AREQUIPA   | AREQUIPA   | 040107 | 711       | 001011000111 |
| LA JOYA                | AREQUIPA   | AREQUIPA   | 040108 | 712       | 001011001000 |
| MARIANO MELGAR         | AREQUIPA   | AREQUIPA   | 040109 | 713       | 001011001001 |
| MIRAFLORES             | AREQUIPA   | AREQUIPA   | 040110 | 714       | 001011001010 |
| MOLLEBAYA              | AREQUIPA   | AREQUIPA   | 040111 | 715       | 001011001011 |
| PAUCARPATA             | AREQUIPA   | AREQUIPA   | 040112 | 716       | 001011001100 |
| POCSI                  | AREQUIPA   | AREQUIPA   | 040113 | 717       | 001011001101 |
| POLOBAYA               | AREQUIPA   | AREQUIPA   | 040114 | 718       | 001011001110 |
| QUEQUEÑA               | AREQUIPA   | AREQUIPA   | 040115 | 719       | 001011001111 |
| SABANDIA               | AREQUIPA   | AREQUIPA   | 040116 | 720       | 001011010000 |
| SACHACA                | AREQUIPA   | AREQUIPA   | 040117 | 721       | 001011010001 |
| SAN JUAN DE SIGUAS     | AREQUIPA   | AREQUIPA   | 040118 | 722       | 001011010010 |
| SAN JUAN DE TARUCANI   | AREQUIPA   | AREQUIPA   | 040119 | 723       | 001011010011 |
| SANTA ISABEL DE SIGUAS | AREQUIPA   | AREQUIPA   | 040120 | 724       | 001011010100 |
| SANTA RITA DE SIGUAS   | AREQUIPA   | AREQUIPA   | 040121 | 725       | 001011010101 |
| SOCABAYA               | AREQUIPA   | AREQUIPA   | 040122 | 726       | 001011010110 |
| TIABAYA                | AREQUIPA   | AREQUIPA   | 040123 | 727       | 001011010111 |
| UCHUMAYO               | AREQUIPA   | AREQUIPA   | 040124 | 728       | 001011011000 |
| VITOR                  | AREQUIPA   | AREQUIPA   | 040125 | 729       | 001011011001 |
| YANAHUARA              | AREQUIPA   | AREQUIPA   | 040126 | 730       | 001011011010 |
| YARABAMBA              | AREQUIPA   | AREQUIPA   | 040127 | 731       | 001011011011 |

| DISTRICT                      | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------------|------------|------------|--------|-----------|--------------|
|                               |            |            |        | decimal   | binary       |
| YURA                          | AREQUIPA   | AREQUIPA   | 040128 | 732       | 001011011100 |
| JOSE LUIS BUSTAMANTE Y RIVERO | AREQUIPA   | AREQUIPA   | 040129 | 733       | 001011011101 |
| CAMANA                        | CAMANA     | AREQUIPA   | 040201 | 737       | 001011100001 |
| JOSE MARIA QUIMPER            | CAMANA     | AREQUIPA   | 040202 | 738       | 001011100010 |
| MARIANO NICOLAS VALCARCEL     | CAMANA     | AREQUIPA   | 040203 | 739       | 001011100011 |
| MARISCAL CACERES              | CAMANA     | AREQUIPA   | 040204 | 740       | 001011100100 |
| NICOLAS DE PIEROLA            | CAMANA     | AREQUIPA   | 040205 | 741       | 001011100101 |
| OCOÑA                         | CAMANA     | AREQUIPA   | 040206 | 742       | 001011100110 |
| QUILCA                        | CAMANA     | AREQUIPA   | 040207 | 743       | 001011100111 |
| SAMUEL PASTOR                 | CAMANA     | AREQUIPA   | 040208 | 744       | 001011101000 |
| CARAVELI                      | CARAVELI   | AREQUIPA   | 040301 | 753       | 001011110001 |
| ACARI                         | CARAVELI   | AREQUIPA   | 040302 | 754       | 001011110010 |
| ATICO                         | CARAVELI   | AREQUIPA   | 040303 | 755       | 001011110011 |
| ATIQUIPA                      | CARAVELI   | AREQUIPA   | 040304 | 756       | 001011110100 |
| BELLA UNION                   | CARAVELI   | AREQUIPA   | 040305 | 757       | 001011110101 |
| CAHUACHO                      | CARAVELI   | AREQUIPA   | 040306 | 758       | 001011110110 |
| CHALA                         | CARAVELI   | AREQUIPA   | 040307 | 759       | 001011110111 |
| CHAPARRA                      | CARAVELI   | AREQUIPA   | 040308 | 760       | 001011111000 |
| HUANUHANU                     | CARAVELI   | AREQUIPA   | 040309 | 761       | 001011111001 |
| JAQUI                         | CARAVELI   | AREQUIPA   | 040310 | 762       | 001011111010 |
| LOMAS                         | CARAVELI   | AREQUIPA   | 040311 | 763       | 001011111011 |
| QUICACHA                      | CARAVELI   | AREQUIPA   | 040312 | 764       | 001011111100 |
| YAUCA                         | CARAVELI   | AREQUIPA   | 040313 | 765       | 001011111101 |
| APLAO                         | CASTILLA   | AREQUIPA   | 040401 | 769       | 001100000001 |
| ANDAGUA                       | CASTILLA   | AREQUIPA   | 040402 | 770       | 001100000010 |
| AYO                           | CASTILLA   | AREQUIPA   | 040403 | 771       | 001100000011 |
| CHACHAS                       | CASTILLA   | AREQUIPA   | 040404 | 772       | 001100000100 |
| CHILCAYMARCA                  | CASTILLA   | AREQUIPA   | 040405 | 773       | 001100000101 |
| CHOCO                         | CASTILLA   | AREQUIPA   | 040406 | 774       | 001100000110 |
| HUANCARQUI                    | CASTILLA   | AREQUIPA   | 040407 | 775       | 001100000111 |
| MACHAGUAY                     | CASTILLA   | AREQUIPA   | 040408 | 776       | 001100001000 |
| ORCOPAMPA                     | CASTILLA   | AREQUIPA   | 040409 | 777       | 001100001001 |
| PAMPACOLCA                    | CASTILLA   | AREQUIPA   | 040410 | 778       | 001100001010 |
| TIPAN                         | CASTILLA   | AREQUIPA   | 040411 | 779       | 001100001011 |
| UÑON                          | CASTILLA   | AREQUIPA   | 040412 | 780       | 001100001100 |
| URACA                         | CASTILLA   | AREQUIPA   | 040413 | 781       | 001100001101 |
| VIRACO                        | CASTILLA   | AREQUIPA   | 040414 | 782       | 001100001110 |
| CHIVAY                        | CAYLLOMA   | AREQUIPA   | 040501 | 785       | 001100010001 |
| ACHOMA                        | CAYLLOMA   | AREQUIPA   | 040502 | 786       | 001100010010 |
| CABANA CONDE                  | CAYLLOMA   | AREQUIPA   | 040503 | 787       | 001100010011 |
| CALLALLI                      | CAYLLOMA   | AREQUIPA   | 040504 | 788       | 001100010100 |
| CAYLLOMA                      | CAYLLOMA   | AREQUIPA   | 040505 | 789       | 001100010101 |
| COPORAQUE                     | CAYLLOMA   | AREQUIPA   | 040506 | 790       | 001100010110 |
| HUAMBO                        | CAYLLOMA   | AREQUIPA   | 040507 | 791       | 001100010111 |
| HUANCA                        | CAYLLOMA   | AREQUIPA   | 040508 | 792       | 001100011000 |
| ICHUPAMPA                     | CAYLLOMA   | AREQUIPA   | 040509 | 793       | 001100011001 |
| LARI                          | CAYLLOMA   | AREQUIPA   | 040510 | 794       | 001100011010 |
| LLUTA                         | CAYLLOMA   | AREQUIPA   | 040511 | 795       | 001100011011 |
| MACA                          | CAYLLOMA   | AREQUIPA   | 040512 | 796       | 001100011100 |
| MADRIGAL                      | CAYLLOMA   | AREQUIPA   | 040513 | 797       | 001100011101 |
| SAN ANTONIO DE CHUCA          | CAYLLOMA   | AREQUIPA   | 040514 | 798       | 001100011110 |
| SIBAYO                        | CAYLLOMA   | AREQUIPA   | 040515 | 799       | 001100011111 |
| TAPAY                         | CAYLLOMA   | AREQUIPA   | 040516 | 800       | 001100100000 |
| TISCO                         | CAYLLOMA   | AREQUIPA   | 040517 | 801       | 001100100001 |
| TUTI                          | CAYLLOMA   | AREQUIPA   | 040518 | 802       | 001100100010 |
| YANQUE                        | CAYLLOMA   | AREQUIPA   | 040519 | 803       | 001100100011 |
| MAJES                         | CAYLLOMA   | AREQUIPA   | 040520 | 804       | 001100100100 |
| CHUQUIBAMBA                   | CONDESUYOS | AREQUIPA   | 040601 | 817       | 001100110001 |

| DISTRICT                | PROVINCE      | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------|---------------|------------|--------|-----------|--------------|
|                         |               |            |        | decimal   | binary       |
| ANDARAY                 | CONDESUYOS    | AREQUIPA   | 040602 | 818       | 001100110010 |
| CAYARANI                | CONDESUYOS    | AREQUIPA   | 040603 | 819       | 001100110011 |
| CHICHAS                 | CONDESUYOS    | AREQUIPA   | 040604 | 820       | 001100110100 |
| IRAY                    | CONDESUYOS    | AREQUIPA   | 040605 | 821       | 001100110101 |
| RIO GRANDE              | CONDESUYOS    | AREQUIPA   | 040606 | 822       | 001100110110 |
| SALAMANCA               | CONDESUYOS    | AREQUIPA   | 040607 | 823       | 001100110111 |
| YANAQUIHUA              | CONDESUYOS    | AREQUIPA   | 040608 | 824       | 001100111000 |
| MOLLENDO                | ISLAY         | AREQUIPA   | 040701 | 833       | 001101000001 |
| COCACACHACRA            | ISLAY         | AREQUIPA   | 040702 | 834       | 001101000010 |
| DEAN VALDIVIA           | ISLAY         | AREQUIPA   | 040703 | 835       | 001101000011 |
| ISLAY                   | ISLAY         | AREQUIPA   | 040704 | 836       | 001101000100 |
| MEJIA                   | ISLAY         | AREQUIPA   | 040705 | 837       | 001101000101 |
| PUNTA DE BOMBON         | ISLAY         | AREQUIPA   | 040706 | 838       | 001101000110 |
| COTAHUASI               | LA UNION      | AREQUIPA   | 040801 | 849       | 001101010001 |
| ALCA                    | LA UNION      | AREQUIPA   | 040802 | 850       | 001101010010 |
| CHARCANA                | LA UNION      | AREQUIPA   | 040803 | 851       | 001101010011 |
| HUAYNACOTAS             | LA UNION      | AREQUIPA   | 040804 | 852       | 001101010100 |
| PAMPAMARCA              | LA UNION      | AREQUIPA   | 040805 | 853       | 001101010101 |
| PUYCA                   | LA UNION      | AREQUIPA   | 040806 | 854       | 001101010110 |
| QUECHUALLA              | LA UNION      | AREQUIPA   | 040807 | 855       | 001101010111 |
| SAYLA                   | LA UNION      | AREQUIPA   | 040808 | 856       | 001101011000 |
| TAURIA                  | LA UNION      | AREQUIPA   | 040809 | 857       | 001101011001 |
| TOMEPPAMPA              | LA UNION      | AREQUIPA   | 040810 | 858       | 001101011010 |
| TORO                    | LA UNION      | AREQUIPA   | 040811 | 859       | 001101011011 |
| AYACUCHO                | HUAMANGA      | AYACUCHO   | 050101 | 881       | 001101110001 |
| ACOCRO                  | HUAMANGA      | AYACUCHO   | 050102 | 882       | 001101110010 |
| ACOS VINCHOS            | HUAMANGA      | AYACUCHO   | 050103 | 883       | 001101110011 |
| CARMEN ALTO             | HUAMANGA      | AYACUCHO   | 050104 | 884       | 001101110100 |
| CHIARA                  | HUAMANGA      | AYACUCHO   | 050105 | 885       | 001101110101 |
| OCROS                   | HUAMANGA      | AYACUCHO   | 050106 | 886       | 001101110110 |
| PACAYCASA               | HUAMANGA      | AYACUCHO   | 050107 | 887       | 001101110111 |
| QUINUA                  | HUAMANGA      | AYACUCHO   | 050108 | 888       | 001101111000 |
| SAN JOSE DE TICLLAS     | HUAMANGA      | AYACUCHO   | 050109 | 889       | 001101111001 |
| SAN JUAN BAUTISTA       | HUAMANGA      | AYACUCHO   | 050110 | 890       | 001101111010 |
| SANTIAGO DE PISCHA      | HUAMANGA      | AYACUCHO   | 050111 | 891       | 001101111011 |
| SOCOS                   | HUAMANGA      | AYACUCHO   | 050112 | 892       | 001101111100 |
| TAMBILLO                | HUAMANGA      | AYACUCHO   | 050113 | 893       | 001101111101 |
| VINCHOS                 | HUAMANGA      | AYACUCHO   | 050114 | 894       | 001101111110 |
| JESUS NAZARENO          | HUAMANGA      | AYACUCHO   | 050115 | 895       | 001101111111 |
| CANGALLO                | CANGALLO      | AYACUCHO   | 050201 | 913       | 001110010001 |
| CHUSCHI                 | CANGALLO      | AYACUCHO   | 050202 | 914       | 001110010010 |
| LOS MOROCHUCOS          | CANGALLO      | AYACUCHO   | 050203 | 915       | 001110010011 |
| MARIA PARADO DE BELLIDO | CANGALLO      | AYACUCHO   | 050204 | 916       | 001110010100 |
| PARAS                   | CANGALLO      | AYACUCHO   | 050205 | 917       | 001110010101 |
| TOTOS                   | CANGALLO      | AYACUCHO   | 050206 | 918       | 001110010110 |
| SANCOS                  | HUANCA SANCOS | AYACUCHO   | 050301 | 929       | 001110100001 |
| CARAPO                  | HUANCA SANCOS | AYACUCHO   | 050302 | 930       | 001110100010 |
| SACSAMARCA              | HUANCA SANCOS | AYACUCHO   | 050303 | 931       | 001110100011 |
| SANTIAGO DE LUCANAMARCA | HUANCA SANCOS | AYACUCHO   | 050304 | 932       | 001110100100 |
| HUANTA                  | HUANTA        | AYACUCHO   | 050401 | 945       | 001110110001 |
| AYAHUANCO               | HUANTA        | AYACUCHO   | 050402 | 946       | 001110110010 |
| HUAMANGUILA             | HUANTA        | AYACUCHO   | 050403 | 947       | 001110110011 |
| IGUAIN                  | HUANTA        | AYACUCHO   | 050404 | 948       | 001110110100 |
| LURICOCHA               | HUANTA        | AYACUCHO   | 050405 | 949       | 001110110101 |
| SANTILLANA              | HUANTA        | AYACUCHO   | 050406 | 950       | 001110110110 |
| SIVIA                   | HUANTA        | AYACUCHO   | 050407 | 951       | 001110110111 |
| LLOCHEGUA               | HUANTA        | AYACUCHO   | 050408 | 952       | 001110111000 |
| SAN MIGUEL              | LA MAR        | AYACUCHO   | 050501 | 961       | 001111000001 |

| DISTRICT                   | PROVINCE             | DEPARTMENT | UBIGEO | AREA CODE |              |
|----------------------------|----------------------|------------|--------|-----------|--------------|
|                            |                      |            |        | decimal   | binary       |
| ANCO                       | LA MAR               | AYACUCHO   | 050502 | 962       | 001111000010 |
| AYNA                       | LA MAR               | AYACUCHO   | 050503 | 963       | 001111000011 |
| CHILCAS                    | LA MAR               | AYACUCHO   | 050504 | 964       | 001111000100 |
| CHUNGUI                    | LA MAR               | AYACUCHO   | 050505 | 965       | 001111000101 |
| LUIS CARRANZA              | LA MAR               | AYACUCHO   | 050506 | 966       | 001111000110 |
| SANTA ROSA                 | LA MAR               | AYACUCHO   | 050507 | 967       | 001111000111 |
| TAMBO                      | LA MAR               | AYACUCHO   | 050508 | 968       | 001111001000 |
| SAMUGARI                   | LA MAR               | AYACUCHO   | 050509 | 969       | 001111001001 |
| PUQUIO                     | LUCANAS              | AYACUCHO   | 050601 | 977       | 001111010001 |
| AUCARA                     | LUCANAS              | AYACUCHO   | 050602 | 978       | 001111010010 |
| CABANA                     | LUCANAS              | AYACUCHO   | 050603 | 979       | 001111010011 |
| CARMEN SALCEDO             | LUCANAS              | AYACUCHO   | 050604 | 980       | 001111010100 |
| CHAVIÑA                    | LUCANAS              | AYACUCHO   | 050605 | 981       | 001111010101 |
| CHIPAO                     | LUCANAS              | AYACUCHO   | 050606 | 982       | 001111010110 |
| HUAC-HUAS                  | LUCANAS              | AYACUCHO   | 050607 | 983       | 001111010111 |
| LARAMATE                   | LUCANAS              | AYACUCHO   | 050608 | 984       | 001111011000 |
| LEONCIO PRADO              | LUCANAS              | AYACUCHO   | 050609 | 985       | 001111011001 |
| LLAUTA                     | LUCANAS              | AYACUCHO   | 050610 | 986       | 001111011010 |
| LUCANAS                    | LUCANAS              | AYACUCHO   | 050611 | 987       | 001111011011 |
| OCAÑA                      | LUCANAS              | AYACUCHO   | 050612 | 988       | 001111011100 |
| OTOCA                      | LUCANAS              | AYACUCHO   | 050613 | 989       | 001111011101 |
| SAISA                      | LUCANAS              | AYACUCHO   | 050614 | 990       | 001111011110 |
| SAN CRISTOBAL              | LUCANAS              | AYACUCHO   | 050615 | 991       | 001111011111 |
| SAN JUAN                   | LUCANAS              | AYACUCHO   | 050616 | 992       | 001111100000 |
| SAN PEDRO                  | LUCANAS              | AYACUCHO   | 050617 | 993       | 001111100001 |
| SAN PEDRO DE PALCO         | LUCANAS              | AYACUCHO   | 050618 | 994       | 001111100010 |
| SANCOS                     | LUCANAS              | AYACUCHO   | 050619 | 995       | 001111100011 |
| SANTA ANA DE HUAYCAHUACHO  | LUCANAS              | AYACUCHO   | 050620 | 996       | 001111100100 |
| SANTA LUCIA                | LUCANAS              | AYACUCHO   | 050621 | 997       | 001111100101 |
| CORACORA                   | PARINACOCHAS         | AYACUCHO   | 050701 | 1009      | 001111110001 |
| CHUMPI                     | PARINACOCHAS         | AYACUCHO   | 050702 | 1010      | 001111110010 |
| CORONEL CASTAÑEDA          | PARINACOCHAS         | AYACUCHO   | 050703 | 1011      | 001111110011 |
| PACAPAUZA                  | PARINACOCHAS         | AYACUCHO   | 050704 | 1012      | 001111110100 |
| PULLO                      | PARINACOCHAS         | AYACUCHO   | 050705 | 1013      | 001111110101 |
| PUYUSCA                    | PARINACOCHAS         | AYACUCHO   | 050706 | 1014      | 001111110110 |
| SAN FRANCISCO DE RAVACAYCO | PARINACOCHAS         | AYACUCHO   | 050707 | 1015      | 001111110111 |
| UPAHUACHO                  | PARINACOCHAS         | AYACUCHO   | 050708 | 1016      | 001111111000 |
| PAUSA                      | PAUCAR DEL SARA SARA | AYACUCHO   | 050801 | 1025      | 010000000001 |
| COLTA                      | PAUCAR DEL SARA SARA | AYACUCHO   | 050802 | 1026      | 010000000010 |
| CORCULLA                   | PAUCAR DEL SARA SARA | AYACUCHO   | 050803 | 1027      | 010000000011 |
| LAMPA                      | PAUCAR DEL SARA SARA | AYACUCHO   | 050804 | 1028      | 010000000100 |
| MARCABAMBA                 | PAUCAR DEL SARA SARA | AYACUCHO   | 050805 | 1029      | 010000000101 |
| OYOLO                      | PAUCAR DEL SARA SARA | AYACUCHO   | 050806 | 1030      | 010000000110 |
| PARARCA                    | PAUCAR DEL SARA SARA | AYACUCHO   | 050807 | 1031      | 010000000111 |
| SAN JAVIER DE ALPABAMBA    | PAUCAR DEL SARA SARA | AYACUCHO   | 050808 | 1032      | 010000001000 |
| SAN JOSE DE USHUA          | PAUCAR DEL SARA SARA | AYACUCHO   | 050809 | 1033      | 010000001001 |
| SARA SARA                  | PAUCAR DEL SARA SARA | AYACUCHO   | 050810 | 1034      | 010000001010 |
| QUEROBAMBA                 | SUCRE                | AYACUCHO   | 050901 | 1041      | 010000010001 |
| BELEN                      | SUCRE                | AYACUCHO   | 050902 | 1042      | 010000010010 |
| CHALCOS                    | SUCRE                | AYACUCHO   | 050903 | 1043      | 010000010011 |
| CHILCAYOC                  | SUCRE                | AYACUCHO   | 050904 | 1044      | 010000010100 |
| HUACAÑA                    | SUCRE                | AYACUCHO   | 050905 | 1045      | 010000010101 |
| MORCOLLA                   | SUCRE                | AYACUCHO   | 050906 | 1046      | 010000010110 |
| PAICO                      | SUCRE                | AYACUCHO   | 050907 | 1047      | 010000010111 |
| SAN PEDRO DE LARCAY        | SUCRE                | AYACUCHO   | 050908 | 1048      | 010000011000 |
| SAN SALVADOR DE QUIJE      | SUCRE                | AYACUCHO   | 050909 | 1049      | 010000011001 |
| SANTIAGO DE PAUCARAY       | SUCRE                | AYACUCHO   | 050910 | 1050      | 010000011010 |
| SORAS                      | SUCRE                | AYACUCHO   | 050911 | 1051      | 010000011011 |

| DISTRICT              | PROVINCE       | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------|----------------|------------|--------|-----------|--------------|
|                       |                |            |        | decimal   | binary       |
| HUANCAPÍ              | VICTOR FAJARDO | AYACUCHO   | 051001 | 1057      | 010000100001 |
| ALCAMENCA             | VICTOR FAJARDO | AYACUCHO   | 051002 | 1058      | 010000100010 |
| APONGO                | VICTOR FAJARDO | AYACUCHO   | 051003 | 1059      | 010000100011 |
| ASQUIPATA             | VICTOR FAJARDO | AYACUCHO   | 051004 | 1060      | 010000100100 |
| CANARIA               | VICTOR FAJARDO | AYACUCHO   | 051005 | 1061      | 010000100101 |
| CAYARA                | VICTOR FAJARDO | AYACUCHO   | 051006 | 1062      | 010000100110 |
| COLCA                 | VICTOR FAJARDO | AYACUCHO   | 051007 | 1063      | 010000100111 |
| HUAMANQUIQUIA         | VICTOR FAJARDO | AYACUCHO   | 051008 | 1064      | 010000101000 |
| HUANCARAYLLA          | VICTOR FAJARDO | AYACUCHO   | 051009 | 1065      | 010000101001 |
| HUAYA                 | VICTOR FAJARDO | AYACUCHO   | 051010 | 1066      | 010000101010 |
| SARHUA                | VICTOR FAJARDO | AYACUCHO   | 051011 | 1067      | 010000101011 |
| VILCANCHOS            | VICTOR FAJARDO | AYACUCHO   | 051012 | 1068      | 010000101100 |
| VILCAS HUAMAN         | VILCAS HUAMAN  | AYACUCHO   | 051101 | 1073      | 010000110001 |
| ACCOMARCA             | VILCAS HUAMAN  | AYACUCHO   | 051102 | 1074      | 010000110010 |
| CARHUANCA             | VILCAS HUAMAN  | AYACUCHO   | 051103 | 1075      | 010000110011 |
| CONCEPCION            | VILCAS HUAMAN  | AYACUCHO   | 051104 | 1076      | 010000110100 |
| HUAMBALPA             | VILCAS HUAMAN  | AYACUCHO   | 051105 | 1077      | 010000110101 |
| INDEPENDENCIA         | VILCAS HUAMAN  | AYACUCHO   | 051106 | 1078      | 010000110110 |
| SAURAMA               | VILCAS HUAMAN  | AYACUCHO   | 051107 | 1079      | 010000110111 |
| VISCHONGO             | VILCAS HUAMAN  | AYACUCHO   | 051108 | 1080      | 010000111000 |
| CAJAMARCA             | CAJAMARCA      | CAJAMARCA  | 060101 | 1105      | 010001010001 |
| ASUNCION              | CAJAMARCA      | CAJAMARCA  | 060102 | 1106      | 010001010010 |
| CHETILLA              | CAJAMARCA      | CAJAMARCA  | 060103 | 1107      | 010001010011 |
| COSPLAN               | CAJAMARCA      | CAJAMARCA  | 060104 | 1108      | 010001010100 |
| ENCAÑADA              | CAJAMARCA      | CAJAMARCA  | 060105 | 1109      | 010001010101 |
| JESUS                 | CAJAMARCA      | CAJAMARCA  | 060106 | 1110      | 010001010110 |
| LLACANORA             | CAJAMARCA      | CAJAMARCA  | 060107 | 1111      | 010001010111 |
| LOS BAÑOS DEL INCA    | CAJAMARCA      | CAJAMARCA  | 060108 | 1112      | 010001011000 |
| MAGDALENA             | CAJAMARCA      | CAJAMARCA  | 060109 | 1113      | 010001011001 |
| MATARA                | CAJAMARCA      | CAJAMARCA  | 060110 | 1114      | 010001011010 |
| NAMORA                | CAJAMARCA      | CAJAMARCA  | 060111 | 1115      | 010001011011 |
| SAN JUAN              | CAJAMARCA      | CAJAMARCA  | 060112 | 1116      | 010001011100 |
| CAJABAMBA             | CAJABAMBA      | CAJAMARCA  | 060201 | 1121      | 010001100001 |
| CACHACHI              | CAJABAMBA      | CAJAMARCA  | 060202 | 1122      | 010001100010 |
| CONDEBAMBA            | CAJABAMBA      | CAJAMARCA  | 060203 | 1123      | 010001100011 |
| SITACOCHA             | CAJABAMBA      | CAJAMARCA  | 060204 | 1124      | 010001100100 |
| CELENDIN              | CELENDIN       | CAJAMARCA  | 060301 | 1137      | 010001110001 |
| CHUMUCH               | CELENDIN       | CAJAMARCA  | 060302 | 1138      | 010001110010 |
| CORTEGANIA            | CELENDIN       | CAJAMARCA  | 060303 | 1139      | 010001110011 |
| HUASMIN               | CELENDIN       | CAJAMARCA  | 060304 | 1140      | 010001110100 |
| JORGE CHAVEZ          | CELENDIN       | CAJAMARCA  | 060305 | 1141      | 010001110101 |
| JOSE GALVEZ           | CELENDIN       | CAJAMARCA  | 060306 | 1142      | 010001110110 |
| MIGUEL IGLESIAS       | CELENDIN       | CAJAMARCA  | 060307 | 1143      | 010001110111 |
| OXAMARCA              | CELENDIN       | CAJAMARCA  | 060308 | 1144      | 010001111000 |
| SOROCHUICO            | CELENDIN       | CAJAMARCA  | 060309 | 1145      | 010001111001 |
| SUCRE                 | CELENDIN       | CAJAMARCA  | 060310 | 1146      | 010001111010 |
| UTCO                  | CELENDIN       | CAJAMARCA  | 060311 | 1147      | 010001111011 |
| LA LIBERTAD DE PALLAN | CELENDIN       | CAJAMARCA  | 060312 | 1148      | 010001111100 |
| CHOTA                 | CHOTA          | CAJAMARCA  | 060401 | 1153      | 010010000001 |
| ANGUIA                | CHOTA          | CAJAMARCA  | 060402 | 1154      | 010010000010 |
| CHADIN                | CHOTA          | CAJAMARCA  | 060403 | 1155      | 010010000011 |
| CHIGUIRIP             | CHOTA          | CAJAMARCA  | 060404 | 1156      | 010010000100 |
| CHIMBAN               | CHOTA          | CAJAMARCA  | 060405 | 1157      | 010010000101 |
| CHOROPAMPA            | CHOTA          | CAJAMARCA  | 060406 | 1158      | 010010000110 |
| COCHABAMBA            | CHOTA          | CAJAMARCA  | 060407 | 1159      | 010010000111 |
| CONCHAN               | CHOTA          | CAJAMARCA  | 060408 | 1160      | 010010001000 |
| HUAMBOS               | CHOTA          | CAJAMARCA  | 060409 | 1161      | 010010001001 |
| LAJAS                 | CHOTA          | CAJAMARCA  | 060410 | 1162      | 010010001010 |

| DISTRICT                    | PROVINCE    | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------------|-------------|------------|--------|-----------|--------------|
|                             |             |            |        | decimal   | binary       |
| LLAMA                       | CHOTA       | CAJAMARCA  | 060411 | 1163      | 010010001011 |
| MIRACOSTA                   | CHOTA       | CAJAMARCA  | 060412 | 1164      | 010010001100 |
| PACCHA                      | CHOTA       | CAJAMARCA  | 060413 | 1165      | 010010001101 |
| PION                        | CHOTA       | CAJAMARCA  | 060414 | 1166      | 010010001110 |
| QUEROCOTO                   | CHOTA       | CAJAMARCA  | 060415 | 1167      | 010010001111 |
| SAN JUAN DE LICUPIS         | CHOTA       | CAJAMARCA  | 060416 | 1168      | 010010010000 |
| TACABAMBA                   | CHOTA       | CAJAMARCA  | 060417 | 1169      | 010010010001 |
| TOCMOCHE                    | CHOTA       | CAJAMARCA  | 060418 | 1170      | 010010010010 |
| CHALAMARCA                  | CHOTA       | CAJAMARCA  | 060419 | 1171      | 010010010011 |
| CONTUMAZA                   | CONTUMAZA   | CAJAMARCA  | 060501 | 1185      | 010010100001 |
| CHILETE                     | CONTUMAZA   | CAJAMARCA  | 060502 | 1186      | 010010100010 |
| CUPISNIQUE                  | CONTUMAZA   | CAJAMARCA  | 060503 | 1187      | 010010100011 |
| GUZMANGO                    | CONTUMAZA   | CAJAMARCA  | 060504 | 1188      | 010010100100 |
| SAN BENITO                  | CONTUMAZA   | CAJAMARCA  | 060505 | 1189      | 010010100101 |
| SANTA CRUZ DE TOLED         | CONTUMAZA   | CAJAMARCA  | 060506 | 1190      | 010010100110 |
| TANTARICA                   | CONTUMAZA   | CAJAMARCA  | 060507 | 1191      | 010010100111 |
| YONAN                       | CONTUMAZA   | CAJAMARCA  | 060508 | 1192      | 010010101000 |
| CUTERVO                     | CUTERVO     | CAJAMARCA  | 060601 | 1201      | 010010110001 |
| CALLAYUC                    | CUTERVO     | CAJAMARCA  | 060602 | 1202      | 010010110010 |
| CHOROS                      | CUTERVO     | CAJAMARCA  | 060603 | 1203      | 010010110011 |
| CUJILLO                     | CUTERVO     | CAJAMARCA  | 060604 | 1204      | 010010110100 |
| LA RAMADA                   | CUTERVO     | CAJAMARCA  | 060605 | 1205      | 010010110101 |
| PIMPINGOS                   | CUTERVO     | CAJAMARCA  | 060606 | 1206      | 010010110110 |
| QUEROCOTILLO                | CUTERVO     | CAJAMARCA  | 060607 | 1207      | 010010110111 |
| SAN ANDRES DE CUTERVO       | CUTERVO     | CAJAMARCA  | 060608 | 1208      | 010010111000 |
| SAN JUAN DE CUTERVO         | CUTERVO     | CAJAMARCA  | 060609 | 1209      | 010010111001 |
| SAN LUIS DE LUCMA           | CUTERVO     | CAJAMARCA  | 060610 | 1210      | 010010111010 |
| SANTA CRUZ                  | CUTERVO     | CAJAMARCA  | 060611 | 1211      | 010010111011 |
| SANTO DOMINGO DE LA CAPILLA | CUTERVO     | CAJAMARCA  | 060612 | 1212      | 010010111100 |
| SANTO TOMAS                 | CUTERVO     | CAJAMARCA  | 060613 | 1213      | 010010111101 |
| SOCOTA                      | CUTERVO     | CAJAMARCA  | 060614 | 1214      | 010010111110 |
| TORIBIO CASANOVA            | CUTERVO     | CAJAMARCA  | 060615 | 1215      | 010010111111 |
| BAMBAMARCA                  | HUALGAYOC   | CAJAMARCA  | 060701 | 1233      | 010011010001 |
| CHUGUR                      | HUALGAYOC   | CAJAMARCA  | 060702 | 1234      | 010011010010 |
| HUALGAYOC                   | HUALGAYOC   | CAJAMARCA  | 060703 | 1235      | 010011010011 |
| JAEN                        | JAEN        | CAJAMARCA  | 060801 | 1249      | 010011100001 |
| BELLAVISTA                  | JAEN        | CAJAMARCA  | 060802 | 1250      | 010011100010 |
| CHONTALI                    | JAEN        | CAJAMARCA  | 060803 | 1251      | 010011100011 |
| COLASAY                     | JAEN        | CAJAMARCA  | 060804 | 1252      | 010011100100 |
| HUABAL                      | JAEN        | CAJAMARCA  | 060805 | 1253      | 010011100101 |
| LAS PIRIAS                  | JAEN        | CAJAMARCA  | 060806 | 1254      | 010011100110 |
| POMAHUACA                   | JAEN        | CAJAMARCA  | 060807 | 1255      | 010011100111 |
| PUCARA                      | JAEN        | CAJAMARCA  | 060808 | 1256      | 010011101000 |
| SALLIQUE                    | JAEN        | CAJAMARCA  | 060809 | 1257      | 010011101001 |
| SAN FELIPE                  | JAEN        | CAJAMARCA  | 060810 | 1258      | 010011101010 |
| SAN JOSE DEL ALTO           | JAEN        | CAJAMARCA  | 060811 | 1259      | 010011101011 |
| SANTA ROSA                  | JAEN        | CAJAMARCA  | 060812 | 1260      | 010011101100 |
| SAN IGNACIO                 | SAN IGNACIO | CAJAMARCA  | 060901 | 1265      | 010011110001 |
| CHIRINOS                    | SAN IGNACIO | CAJAMARCA  | 060902 | 1266      | 010011110010 |
| HUARANGO                    | SAN IGNACIO | CAJAMARCA  | 060903 | 1267      | 010011110011 |
| LA COIPA                    | SAN IGNACIO | CAJAMARCA  | 060904 | 1268      | 010011110100 |
| NAMBALLE                    | SAN IGNACIO | CAJAMARCA  | 060905 | 1269      | 010011110101 |
| SAN JOSE DE LOURDES         | SAN IGNACIO | CAJAMARCA  | 060906 | 1270      | 010011110110 |
| TABACONAS                   | SAN IGNACIO | CAJAMARCA  | 060907 | 1271      | 010011110111 |
| PEDRO GALVEZ                | SAN MARCOS  | CAJAMARCA  | 061001 | 1281      | 010100000001 |
| CHANCAY                     | SAN MARCOS  | CAJAMARCA  | 061002 | 1282      | 010100000010 |
| EDUARDO VILLANUEVA          | SAN MARCOS  | CAJAMARCA  | 061003 | 1283      | 010100000011 |
| GREGORIO PITA               | SAN MARCOS  | CAJAMARCA  | 061004 | 1284      | 010100000100 |

| DISTRICT                | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------|------------|------------|--------|-----------|--------------|
|                         |            |            |        | decimal   | binary       |
| ICHOCAN                 | SAN MARCOS | CAJAMARCA  | 061005 | 1285      | 010100000101 |
| JOSE MANUEL QUIROZ      | SAN MARCOS | CAJAMARCA  | 061006 | 1286      | 010100000110 |
| JOSE SABOGAL            | SAN MARCOS | CAJAMARCA  | 061007 | 1287      | 010100000111 |
| SAN MIGUEL              | SAN MIGUEL | CAJAMARCA  | 061101 | 1297      | 010100010001 |
| BOLIVAR                 | SAN MIGUEL | CAJAMARCA  | 061102 | 1298      | 010100010010 |
| CALQUIS                 | SAN MIGUEL | CAJAMARCA  | 061103 | 1299      | 010100010011 |
| CATILLUC                | SAN MIGUEL | CAJAMARCA  | 061104 | 1300      | 010100010100 |
| EL PRADO                | SAN MIGUEL | CAJAMARCA  | 061105 | 1301      | 010100010101 |
| LA FLORIDA              | SAN MIGUEL | CAJAMARCA  | 061106 | 1302      | 010100010110 |
| LLAPA                   | SAN MIGUEL | CAJAMARCA  | 061107 | 1303      | 010100010111 |
| NANCHOC                 | SAN MIGUEL | CAJAMARCA  | 061108 | 1304      | 010100011000 |
| NIEPOS                  | SAN MIGUEL | CAJAMARCA  | 061109 | 1305      | 010100011001 |
| SAN GREGORIO            | SAN MIGUEL | CAJAMARCA  | 061110 | 1306      | 010100011010 |
| SAN SILVESTRE DE COCHAN | SAN MIGUEL | CAJAMARCA  | 061111 | 1307      | 010100011011 |
| TONGOD                  | SAN MIGUEL | CAJAMARCA  | 061112 | 1308      | 010100011100 |
| UNION AGUA BLANCA       | SAN MIGUEL | CAJAMARCA  | 061113 | 1309      | 010100011101 |
| SAN PABLO               | SAN PABLO  | CAJAMARCA  | 061201 | 1313      | 010100100001 |
| SAN BERNARDINO          | SAN PABLO  | CAJAMARCA  | 061202 | 1314      | 010100100010 |
| SAN LUIS                | SAN PABLO  | CAJAMARCA  | 061203 | 1315      | 010100100011 |
| TUMBADEN                | SAN PABLO  | CAJAMARCA  | 061204 | 1316      | 010100100100 |
| SANTA CRUZ              | SANTA CRUZ | CAJAMARCA  | 061301 | 1329      | 010100110001 |
| ANDABAMBA               | SANTA CRUZ | CAJAMARCA  | 061302 | 1330      | 010100110010 |
| CATACHE                 | SANTA CRUZ | CAJAMARCA  | 061303 | 1331      | 010100110011 |
| CHANCAYBAÑOS            | SANTA CRUZ | CAJAMARCA  | 061304 | 1332      | 010100110100 |
| LA ESPERANZA            | SANTA CRUZ | CAJAMARCA  | 061305 | 1333      | 010100110101 |
| NINABAMBA               | SANTA CRUZ | CAJAMARCA  | 061306 | 1334      | 010100110110 |
| PULAN                   | SANTA CRUZ | CAJAMARCA  | 061307 | 1335      | 010100110111 |
| SAUCEPAMPA              | SANTA CRUZ | CAJAMARCA  | 061308 | 1336      | 010100111000 |
| SEXI                    | SANTA CRUZ | CAJAMARCA  | 061309 | 1337      | 010100111001 |
| UTICYACU                | SANTA CRUZ | CAJAMARCA  | 061310 | 1338      | 010100111010 |
| YAUYUCAN                | SANTA CRUZ | CAJAMARCA  | 061311 | 1339      | 010100111011 |
| CUSCO                   | CUSCO      | CUSCO      | 080101 | 1361      | 010101010001 |
| CCORCA                  | CUSCO      | CUSCO      | 080102 | 1362      | 010101010010 |
| POROY                   | CUSCO      | CUSCO      | 080103 | 1363      | 010101010011 |
| SAN JERONIMO            | CUSCO      | CUSCO      | 080104 | 1364      | 010101010100 |
| SAN SEBASTIAN           | CUSCO      | CUSCO      | 080105 | 1365      | 010101010101 |
| SANTIAGO                | CUSCO      | CUSCO      | 080106 | 1366      | 010101010110 |
| SAYLLA                  | CUSCO      | CUSCO      | 080107 | 1367      | 010101010111 |
| WANCHAQ                 | CUSCO      | CUSCO      | 080108 | 1368      | 010101011000 |
| ACOMAYO                 | ACOMAYO    | CUSCO      | 080201 | 1377      | 010101100001 |
| ACOPIA                  | ACOMAYO    | CUSCO      | 080202 | 1378      | 010101100010 |
| ACOS                    | ACOMAYO    | CUSCO      | 080203 | 1379      | 010101100011 |
| MOSOC LLACTA            | ACOMAYO    | CUSCO      | 080204 | 1380      | 010101100100 |
| POMACANCHI              | ACOMAYO    | CUSCO      | 080205 | 1381      | 010101100101 |
| RONDOLAN                | ACOMAYO    | CUSCO      | 080206 | 1382      | 010101100110 |
| SANGARARA               | ACOMAYO    | CUSCO      | 080207 | 1383      | 010101100111 |
| ANTA                    | ANTA       | CUSCO      | 080301 | 1393      | 010101110001 |
| ANCAHUASI               | ANTA       | CUSCO      | 080302 | 1394      | 010101110010 |
| CACHIMAYO               | ANTA       | CUSCO      | 080303 | 1395      | 010101110011 |
| CHINCHA YPUJIO          | ANTA       | CUSCO      | 080304 | 1396      | 010101110100 |
| HUAROCONDO              | ANTA       | CUSCO      | 080305 | 1397      | 010101110101 |
| LIMATAMBO               | ANTA       | CUSCO      | 080306 | 1398      | 010101110110 |
| MOLLEPATA               | ANTA       | CUSCO      | 080307 | 1399      | 010101110111 |
| PUCYURA                 | ANTA       | CUSCO      | 080308 | 1400      | 010101111000 |
| ZURITE                  | ANTA       | CUSCO      | 080309 | 1401      | 010101111001 |
| CALCA                   | CALCA      | CUSCO      | 080401 | 1409      | 010110000001 |
| COYA                    | CALCA      | CUSCO      | 080402 | 1410      | 010110000010 |
| LAMAY                   | CALCA      | CUSCO      | 080403 | 1411      | 010110000011 |

| DISTRICT      | PROVINCE      | DEPARTMENT | UBIGEO | AREA CODE |              |
|---------------|---------------|------------|--------|-----------|--------------|
|               |               |            |        | decimal   | binary       |
| LARES         | CALCA         | CUSCO      | 080404 | 1412      | 010110000100 |
| PISAC         | CALCA         | CUSCO      | 080405 | 1413      | 010110000101 |
| SAN SALVADOR  | CALCA         | CUSCO      | 080406 | 1414      | 010110000110 |
| TARAY         | CALCA         | CUSCO      | 080407 | 1415      | 010110000111 |
| YANATILE      | CALCA         | CUSCO      | 080408 | 1416      | 010110001000 |
| YANAOCAYA     | CANAS         | CUSCO      | 080501 | 1425      | 010110010001 |
| CHECCA        | CANAS         | CUSCO      | 080502 | 1426      | 010110010010 |
| KUNTURKANKI   | CANAS         | CUSCO      | 080503 | 1427      | 010110010011 |
| LANGUI        | CANAS         | CUSCO      | 080504 | 1428      | 010110010100 |
| LAYO          | CANAS         | CUSCO      | 080505 | 1429      | 010110010101 |
| PAMPAMARCA    | CANAS         | CUSCO      | 080506 | 1430      | 010110010110 |
| QUEHUE        | CANAS         | CUSCO      | 080507 | 1431      | 010110010111 |
| TUPAC AMARU   | CANAS         | CUSCO      | 080508 | 1432      | 010110011000 |
| SICUANI       | CANCHIS       | CUSCO      | 080601 | 1441      | 010110100001 |
| CHECACUPE     | CANCHIS       | CUSCO      | 080602 | 1442      | 010110100010 |
| COMBAPATA     | CANCHIS       | CUSCO      | 080603 | 1443      | 010110100011 |
| MARANGANI     | CANCHIS       | CUSCO      | 080604 | 1444      | 010110100100 |
| PITUMARCA     | CANCHIS       | CUSCO      | 080605 | 1445      | 010110100101 |
| SAN PABLO     | CANCHIS       | CUSCO      | 080606 | 1446      | 010110100110 |
| SAN PEDRO     | CANCHIS       | CUSCO      | 080607 | 1447      | 010110100111 |
| TINTA         | CANCHIS       | CUSCO      | 080608 | 1448      | 010110101000 |
| SANTO TOMAS   | CHUMBIVILCAS  | CUSCO      | 080701 | 1457      | 010110110001 |
| CAPACMARCA    | CHUMBIVILCAS  | CUSCO      | 080702 | 1458      | 010110110010 |
| CHAMACA       | CHUMBIVILCAS  | CUSCO      | 080703 | 1459      | 010110110011 |
| COLQUEMARCA   | CHUMBIVILCAS  | CUSCO      | 080704 | 1460      | 010110110100 |
| LIVITACA      | CHUMBIVILCAS  | CUSCO      | 080705 | 1461      | 010110110101 |
| LLUSCO        | CHUMBIVILCAS  | CUSCO      | 080706 | 1462      | 010110110110 |
| QUIÑOTA       | CHUMBIVILCAS  | CUSCO      | 080707 | 1463      | 010110110111 |
| VELILLE       | CHUMBIVILCAS  | CUSCO      | 080708 | 1464      | 010110111000 |
| ESPINAR       | ESPINAR       | CUSCO      | 080801 | 1473      | 010111000001 |
| CONDOROMA     | ESPINAR       | CUSCO      | 080802 | 1474      | 010111000010 |
| COPORAQUE     | ESPINAR       | CUSCO      | 080803 | 1475      | 010111000011 |
| OCORURO       | ESPINAR       | CUSCO      | 080804 | 1476      | 010111000100 |
| PALLPATA      | ESPINAR       | CUSCO      | 080805 | 1477      | 010111000101 |
| PICHIGUA      | ESPINAR       | CUSCO      | 080806 | 1478      | 010111000110 |
| SUYCKUTAMBO   | ESPINAR       | CUSCO      | 080807 | 1479      | 010111000111 |
| ALTO PICHIGUA | ESPINAR       | CUSCO      | 080808 | 1480      | 010111001000 |
| SANTA ANA     | LA CONVENCION | CUSCO      | 080901 | 1489      | 010111010001 |
| ECHARATE      | LA CONVENCION | CUSCO      | 080902 | 1490      | 010111010010 |
| HUAYOPATA     | LA CONVENCION | CUSCO      | 080903 | 1491      | 010111010011 |
| MARANURA      | LA CONVENCION | CUSCO      | 080904 | 1492      | 010111010100 |
| OCOBAMBA      | LA CONVENCION | CUSCO      | 080905 | 1493      | 010111010101 |
| QUELLOUNO     | LA CONVENCION | CUSCO      | 080906 | 1494      | 010111010110 |
| KIMBIRI       | LA CONVENCION | CUSCO      | 080907 | 1495      | 010111010111 |
| SANTA TERESA  | LA CONVENCION | CUSCO      | 080908 | 1496      | 010111011000 |
| VILCABAMBA    | LA CONVENCION | CUSCO      | 080909 | 1497      | 010111011001 |
| PICHARI       | LA CONVENCION | CUSCO      | 080910 | 1498      | 010111011010 |
| PARURO        | PARURO        | CUSCO      | 081001 | 1505      | 010111100001 |
| ACCHA         | PARURO        | CUSCO      | 081002 | 1506      | 010111100010 |
| CCAPI         | PARURO        | CUSCO      | 081003 | 1507      | 010111100011 |
| COLCHA        | PARURO        | CUSCO      | 081004 | 1508      | 010111100100 |
| HUANOQUITE    | PARURO        | CUSCO      | 081005 | 1509      | 010111100101 |
| OMACHA        | PARURO        | CUSCO      | 081006 | 1510      | 010111100110 |
| PACCARITAMBO  | PARURO        | CUSCO      | 081007 | 1511      | 010111100111 |
| PILLPINTO     | PARURO        | CUSCO      | 081008 | 1512      | 010111101000 |
| YAURISQUE     | PARURO        | CUSCO      | 081009 | 1513      | 010111101001 |
| PAUCARTAMBO   | PAUCARTAMBO   | CUSCO      | 081101 | 1521      | 010111110001 |
| CAICAY        | PAUCARTAMBO   | CUSCO      | 081102 | 1522      | 010111110010 |

| DISTRICT         | PROVINCE     | DEPARTMENT   | UBIGEO | AREA CODE |              |
|------------------|--------------|--------------|--------|-----------|--------------|
|                  |              |              |        | decimal   | binary       |
| CHALLABAMBA      | PAUCARTAMBO  | CUSCO        | 081103 | 1523      | 01011110011  |
| COLQUEPATA       | PAUCARTAMBO  | CUSCO        | 081104 | 1524      | 01011110100  |
| HUANCARANI       | PAUCARTAMBO  | CUSCO        | 081105 | 1525      | 01011110101  |
| KOSÑIPATA        | PAUCARTAMBO  | CUSCO        | 081106 | 1526      | 01011110110  |
| URCOS            | QUISPICANCHI | CUSCO        | 081201 | 1537      | 011000000001 |
| ANDAHUAYLILLAS   | QUISPICANCHI | CUSCO        | 081202 | 1538      | 011000000010 |
| CAMANTI          | QUISPICANCHI | CUSCO        | 081203 | 1539      | 011000000011 |
| CCARHUAYO        | QUISPICANCHI | CUSCO        | 081204 | 1540      | 011000000100 |
| CCATCA           | QUISPICANCHI | CUSCO        | 081205 | 1541      | 011000000101 |
| CUSIPATA         | QUISPICANCHI | CUSCO        | 081206 | 1542      | 011000000110 |
| HUARO            | QUISPICANCHI | CUSCO        | 081207 | 1543      | 011000000111 |
| LUCRE            | QUISPICANCHI | CUSCO        | 081208 | 1544      | 011000001000 |
| MARCAPATA        | QUISPICANCHI | CUSCO        | 081209 | 1545      | 011000001001 |
| OCONGATE         | QUISPICANCHI | CUSCO        | 081210 | 1546      | 011000001010 |
| OROPESA          | QUISPICANCHI | CUSCO        | 081211 | 1547      | 011000001011 |
| QUIQUIJANA       | QUISPICANCHI | CUSCO        | 081212 | 1548      | 011000001100 |
| URUBAMBA         | URUBAMBA     | CUSCO        | 081301 | 1553      | 011000010001 |
| CHINCHERO        | URUBAMBA     | CUSCO        | 081302 | 1554      | 011000010010 |
| HUAYLLABAMBA     | URUBAMBA     | CUSCO        | 081303 | 1555      | 011000010011 |
| MACHUPICCHU      | URUBAMBA     | CUSCO        | 081304 | 1556      | 011000010100 |
| MARAS            | URUBAMBA     | CUSCO        | 081305 | 1557      | 011000010101 |
| OLLANTAYTAMBO    | URUBAMBA     | CUSCO        | 081306 | 1558      | 011000010110 |
| YUCAY            | URUBAMBA     | CUSCO        | 081307 | 1559      | 011000010111 |
| HUANCAVELICA     | HUANCAVELICA | HUANCAVELICA | 090101 | 1585      | 011000110001 |
| ACOBAMBILLA      | HUANCAVELICA | HUANCAVELICA | 090102 | 1586      | 011000110010 |
| ACORIA           | HUANCAVELICA | HUANCAVELICA | 090103 | 1587      | 011000110011 |
| CONAYCA          | HUANCAVELICA | HUANCAVELICA | 090104 | 1588      | 011000110100 |
| CUENCA           | HUANCAVELICA | HUANCAVELICA | 090105 | 1589      | 011000110101 |
| HUACHOCOLPA      | HUANCAVELICA | HUANCAVELICA | 090106 | 1590      | 011000110110 |
| HUAYLLAHUARA     | HUANCAVELICA | HUANCAVELICA | 090107 | 1591      | 011000110111 |
| IZCUCHACA        | HUANCAVELICA | HUANCAVELICA | 090108 | 1592      | 011000111000 |
| LARIA            | HUANCAVELICA | HUANCAVELICA | 090109 | 1593      | 011000111001 |
| MANTA            | HUANCAVELICA | HUANCAVELICA | 090110 | 1594      | 011000111010 |
| MARISCAL CACERES | HUANCAVELICA | HUANCAVELICA | 090111 | 1595      | 011000111011 |
| MOYA             | HUANCAVELICA | HUANCAVELICA | 090112 | 1596      | 011000111100 |
| NUEVO OCCORO     | HUANCAVELICA | HUANCAVELICA | 090113 | 1597      | 011000111101 |
| PALCA            | HUANCAVELICA | HUANCAVELICA | 090114 | 1598      | 011000111110 |
| PILCHACA         | HUANCAVELICA | HUANCAVELICA | 090115 | 1599      | 011000111111 |
| VILCA            | HUANCAVELICA | HUANCAVELICA | 090116 | 1600      | 011001000000 |
| YAULI            | HUANCAVELICA | HUANCAVELICA | 090117 | 1601      | 011001000001 |
| ASCENSION        | HUANCAVELICA | HUANCAVELICA | 090118 | 1602      | 011001000010 |
| HUANDO           | HUANCAVELICA | HUANCAVELICA | 090119 | 1603      | 011001000011 |
| ACOBAMBA         | ACOBAMBA     | HUANCAVELICA | 090201 | 1617      | 011001010001 |
| ANDABAMBA        | ACOBAMBA     | HUANCAVELICA | 090202 | 1618      | 011001010010 |
| ANTA             | ACOBAMBA     | HUANCAVELICA | 090203 | 1619      | 011001010011 |
| CAJA             | ACOBAMBA     | HUANCAVELICA | 090204 | 1620      | 011001010100 |
| MARCAS           | ACOBAMBA     | HUANCAVELICA | 090205 | 1621      | 011001010101 |
| PAUCARA          | ACOBAMBA     | HUANCAVELICA | 090206 | 1622      | 011001010110 |
| POMACOCHA        | ACOBAMBA     | HUANCAVELICA | 090207 | 1623      | 011001010111 |
| ROSARIO          | ACOBAMBA     | HUANCAVELICA | 090208 | 1624      | 011001011000 |
| LIRCAY           | ANGARAES     | HUANCAVELICA | 090301 | 1633      | 011001100001 |
| ANCHONGA         | ANGARAES     | HUANCAVELICA | 090302 | 1634      | 011001100010 |
| CALLANMARCA      | ANGARAES     | HUANCAVELICA | 090303 | 1635      | 011001100011 |
| CCOCHACCASA      | ANGARAES     | HUANCAVELICA | 090304 | 1636      | 011001100100 |
| CHINCHO          | ANGARAES     | HUANCAVELICA | 090305 | 1637      | 011001100101 |
| CONGALLA         | ANGARAES     | HUANCAVELICA | 090306 | 1638      | 011001100110 |
| HUANCA-HUANCA    | ANGARAES     | HUANCAVELICA | 090307 | 1639      | 011001100111 |
| HUAYLLAY GRANDE  | ANGARAES     | HUANCAVELICA | 090308 | 1640      | 011001101000 |

| DISTRICT                    | PROVINCE       | DEPARTMENT   | UBIGEO | AREA CODE |              |
|-----------------------------|----------------|--------------|--------|-----------|--------------|
|                             |                |              |        | decimal   | binary       |
| JULCAMARCA                  | ANGARAES       | HUANCAVELICA | 090309 | 1641      | 011001101001 |
| SAN ANTONIO DE ANTAPARCO    | ANGARAES       | HUANCAVELICA | 090310 | 1642      | 011001101010 |
| SANTO TOMAS DE PATA         | ANGARAES       | HUANCAVELICA | 090311 | 1643      | 011001101011 |
| SECCLLA                     | ANGARAES       | HUANCAVELICA | 090312 | 1644      | 011001101100 |
| CASTROVIRREYNA              | CASTROVIRREYNA | HUANCAVELICA | 090401 | 1649      | 011001110001 |
| ARMA                        | CASTROVIRREYNA | HUANCAVELICA | 090402 | 1650      | 011001110010 |
| AURAHUA                     | CASTROVIRREYNA | HUANCAVELICA | 090403 | 1651      | 011001110011 |
| CAPILLAS                    | CASTROVIRREYNA | HUANCAVELICA | 090404 | 1652      | 011001110100 |
| CHUPAMARCA                  | CASTROVIRREYNA | HUANCAVELICA | 090405 | 1653      | 011001110101 |
| COCAS                       | CASTROVIRREYNA | HUANCAVELICA | 090406 | 1654      | 011001110110 |
| HUACHOS                     | CASTROVIRREYNA | HUANCAVELICA | 090407 | 1655      | 011001110111 |
| HUAMATAMBO                  | CASTROVIRREYNA | HUANCAVELICA | 090408 | 1656      | 011001111000 |
| MOLLEPAMPA                  | CASTROVIRREYNA | HUANCAVELICA | 090409 | 1657      | 011001111001 |
| SAN JUAN                    | CASTROVIRREYNA | HUANCAVELICA | 090410 | 1658      | 011001111010 |
| SANTA ANA                   | CASTROVIRREYNA | HUANCAVELICA | 090411 | 1659      | 011001111011 |
| TANTARA                     | CASTROVIRREYNA | HUANCAVELICA | 090412 | 1660      | 011001111100 |
| TICRAPO                     | CASTROVIRREYNA | HUANCAVELICA | 090413 | 1661      | 011001111101 |
| CHURCAMPANA                 | CHURCAMPANA    | HUANCAVELICA | 090501 | 1665      | 011010000001 |
| ANCO                        | CHURCAMPANA    | HUANCAVELICA | 090502 | 1666      | 011010000010 |
| CHINCHIHUASI                | CHURCAMPANA    | HUANCAVELICA | 090503 | 1667      | 011010000011 |
| EL CARMEN                   | CHURCAMPANA    | HUANCAVELICA | 090504 | 1668      | 011010000100 |
| LA MERCED                   | CHURCAMPANA    | HUANCAVELICA | 090505 | 1669      | 011010000101 |
| LOCROJA                     | CHURCAMPANA    | HUANCAVELICA | 090506 | 1670      | 011010000110 |
| PAUCARBAMBA                 | CHURCAMPANA    | HUANCAVELICA | 090507 | 1671      | 011010000111 |
| SAN MIGUEL DE MAYOCC        | CHURCAMPANA    | HUANCAVELICA | 090508 | 1672      | 011010001000 |
| SAN PEDRO DE CORIS          | CHURCAMPANA    | HUANCAVELICA | 090509 | 1673      | 011010001001 |
| PACHAMARCA                  | CHURCAMPANA    | HUANCAVELICA | 090510 | 1674      | 011010001010 |
| COSME                       | CHURCAMPANA    | HUANCAVELICA | 090511 | 1675      | 011010001011 |
| HUAYTARA                    | HUAYTARA       | HUANCAVELICA | 090601 | 1681      | 011010010001 |
| AYAVI                       | HUAYTARA       | HUANCAVELICA | 090602 | 1682      | 011010010010 |
| CORDOVA                     | HUAYTARA       | HUANCAVELICA | 090603 | 1683      | 011010010011 |
| HUAYACUNDO ARMA             | HUAYTARA       | HUANCAVELICA | 090604 | 1684      | 011010010100 |
| LARAMARCA                   | HUAYTARA       | HUANCAVELICA | 090605 | 1685      | 011010010101 |
| OCOYO                       | HUAYTARA       | HUANCAVELICA | 090606 | 1686      | 011010010110 |
| PILPICHACA                  | HUAYTARA       | HUANCAVELICA | 090607 | 1687      | 011010010111 |
| QUERCO                      | HUAYTARA       | HUANCAVELICA | 090608 | 1688      | 011010011000 |
| QUITO-ARMA                  | HUAYTARA       | HUANCAVELICA | 090609 | 1689      | 011010011001 |
| SAN ANTONIO DE CUSICANCHANA | HUAYTARA       | HUANCAVELICA | 090610 | 1690      | 011010011010 |
| SAN FRANCISCO DE SANGAYAICO | HUAYTARA       | HUANCAVELICA | 090611 | 1691      | 011010011011 |
| SAN ISIDRO                  | HUAYTARA       | HUANCAVELICA | 090612 | 1692      | 011010011100 |
| SANTIAGO DE CHOCORVOS       | HUAYTARA       | HUANCAVELICA | 090613 | 1693      | 011010011101 |
| SANTIAGO DE QUIRAHUARA      | HUAYTARA       | HUANCAVELICA | 090614 | 1694      | 011010011110 |
| SANTO DOMINGO DE CAPILLAS   | HUAYTARA       | HUANCAVELICA | 090615 | 1695      | 011010011111 |
| TAMBO                       | HUAYTARA       | HUANCAVELICA | 090616 | 1696      | 011010100000 |
| PAMPAS                      | TAYACAJA       | HUANCAVELICA | 090701 | 1713      | 011010110001 |
| ACOSTAMBO                   | TAYACAJA       | HUANCAVELICA | 090702 | 1714      | 011010110010 |
| ACRAQUIA                    | TAYACAJA       | HUANCAVELICA | 090703 | 1715      | 011010110011 |
| AHUAYCHA                    | TAYACAJA       | HUANCAVELICA | 090704 | 1716      | 011010110100 |
| COLCABAMBA                  | TAYACAJA       | HUANCAVELICA | 090705 | 1717      | 011010110101 |
| DANIEL HERNANDEZ            | TAYACAJA       | HUANCAVELICA | 090706 | 1718      | 011010110110 |
| HUACHOCOLPA                 | TAYACAJA       | HUANCAVELICA | 090707 | 1719      | 011010110111 |
| HUARIBAMBA                  | TAYACAJA       | HUANCAVELICA | 090709 | 1720      | 011010111000 |
| ÑAHUIMPUQUIO                | TAYACAJA       | HUANCAVELICA | 090710 | 1721      | 011010111001 |
| PAZOS                       | TAYACAJA       | HUANCAVELICA | 090711 | 1722      | 011010111010 |
| QUISHUAR                    | TAYACAJA       | HUANCAVELICA | 090713 | 1723      | 011010111011 |
| SALCABAMBA                  | TAYACAJA       | HUANCAVELICA | 090714 | 1724      | 011010111100 |
| SALCAHUASI                  | TAYACAJA       | HUANCAVELICA | 090715 | 1725      | 011010111101 |
| SAN MARCOS DE ROCCHAC       | TAYACAJA       | HUANCAVELICA | 090716 | 1726      | 011010111110 |

| DISTRICT                | PROVINCE      | DEPARTMENT   | UBIGEO | AREA CODE |              |
|-------------------------|---------------|--------------|--------|-----------|--------------|
|                         |               |              |        | decimal   | binary       |
| SURCUBAMBA              | TAYACAJA      | HUANCABELICA | 090717 | 1727      | 011010111111 |
| TINTAY PUNCU            | TAYACAJA      | HUANCABELICA | 090718 | 1728      | 011011000000 |
| HUANUCO                 | HUANUCO       | HUANUCO      | 100101 | 1761      | 011011100001 |
| AMARILIS                | HUANUCO       | HUANUCO      | 100102 | 1762      | 011011100010 |
| CHINCHAO                | HUANUCO       | HUANUCO      | 100103 | 1763      | 011011100011 |
| CHURUBAMBA              | HUANUCO       | HUANUCO      | 100104 | 1764      | 011011100100 |
| MARGOS                  | HUANUCO       | HUANUCO      | 100105 | 1765      | 011011100101 |
| QUISQUI (KICHKI)        | HUANUCO       | HUANUCO      | 100106 | 1766      | 011011100110 |
| SAN FRANCISCO DE CAYRAN | HUANUCO       | HUANUCO      | 100107 | 1767      | 011011100111 |
| SAN PEDRO DE CHAULAN    | HUANUCO       | HUANUCO      | 100108 | 1768      | 011011101000 |
| SANTA MARIA DEL VALLE   | HUANUCO       | HUANUCO      | 100109 | 1769      | 011011101001 |
| YARUMAYO                | HUANUCO       | HUANUCO      | 100110 | 1770      | 011011101010 |
| PILLCO MARCA            | HUANUCO       | HUANUCO      | 100111 | 1771      | 011011101011 |
| YACUS                   | HUANUCO       | HUANUCO      | 100112 | 1772      | 011011101100 |
| AMBO                    | AMBO          | HUANUCO      | 100201 | 1777      | 011011100001 |
| CAYNA                   | AMBO          | HUANUCO      | 100202 | 1778      | 011011100010 |
| COLPAS                  | AMBO          | HUANUCO      | 100203 | 1779      | 011011100011 |
| CONCHAMARCA             | AMBO          | HUANUCO      | 100204 | 1780      | 01101110100  |
| HUACAR                  | AMBO          | HUANUCO      | 100205 | 1781      | 01101110101  |
| SAN FRANCISCO           | AMBO          | HUANUCO      | 100206 | 1782      | 011011101010 |
| SAN RAFAEL              | AMBO          | HUANUCO      | 100207 | 1783      | 011011101011 |
| TOMAY KICHWA            | AMBO          | HUANUCO      | 100208 | 1784      | 01101111000  |
| LA UNION                | DOS DE MAYO   | HUANUCO      | 100301 | 1793      | 011100000001 |
| CHUQUIS                 | DOS DE MAYO   | HUANUCO      | 100307 | 1794      | 011100000010 |
| MARIAS                  | DOS DE MAYO   | HUANUCO      | 100311 | 1795      | 011100000011 |
| PACHAS                  | DOS DE MAYO   | HUANUCO      | 100313 | 1796      | 011100000100 |
| QUIVILLA                | DOS DE MAYO   | HUANUCO      | 100316 | 1797      | 011100000101 |
| RIPAN                   | DOS DE MAYO   | HUANUCO      | 100317 | 1798      | 011100000110 |
| SHUNQUI                 | DOS DE MAYO   | HUANUCO      | 100321 | 1799      | 011100000111 |
| SILLAPATA               | DOS DE MAYO   | HUANUCO      | 100322 | 1800      | 011100001000 |
| YANAS                   | DOS DE MAYO   | HUANUCO      | 100323 | 1801      | 011100001001 |
| HUACAYBAMBA             | HUACAYBAMBA   | HUANUCO      | 100401 | 1809      | 011100010001 |
| CANCHABAMBA             | HUACAYBAMBA   | HUANUCO      | 100402 | 1810      | 011100010010 |
| COCHABAMBA              | HUACAYBAMBA   | HUANUCO      | 100403 | 1811      | 011100010011 |
| PINRA                   | HUACAYBAMBA   | HUANUCO      | 100404 | 1812      | 011100010100 |
| LLATA                   | HUAMALIES     | HUANUCO      | 100501 | 1825      | 011100100001 |
| ARANCAY                 | HUAMALIES     | HUANUCO      | 100502 | 1826      | 011100100010 |
| CHAVIN DE PARIARCA      | HUAMALIES     | HUANUCO      | 100503 | 1827      | 011100100011 |
| JACAS GRANDE            | HUAMALIES     | HUANUCO      | 100504 | 1828      | 011100100100 |
| JIRCAN                  | HUAMALIES     | HUANUCO      | 100505 | 1829      | 011100100101 |
| MIRAFLORES              | HUAMALIES     | HUANUCO      | 100506 | 1830      | 011100100110 |
| MONZON                  | HUAMALIES     | HUANUCO      | 100507 | 1831      | 011100100111 |
| PUNCHAO                 | HUAMALIES     | HUANUCO      | 100508 | 1832      | 011100101000 |
| PUÑOS                   | HUAMALIES     | HUANUCO      | 100509 | 1833      | 011100101001 |
| SINGA                   | HUAMALIES     | HUANUCO      | 100510 | 1834      | 011100101010 |
| TANTAMAYO               | HUAMALIES     | HUANUCO      | 100511 | 1835      | 011100101011 |
| RUPA-RUPA               | LEONCIO PRADO | HUANUCO      | 100601 | 1841      | 011100110001 |
| DANIEL ALOMIA ROBLES    | LEONCIO PRADO | HUANUCO      | 100602 | 1842      | 011100110010 |
| HERMILIO VALDIZAN       | LEONCIO PRADO | HUANUCO      | 100603 | 1843      | 011100110011 |
| JOSE CRESPO Y CASTILLO  | LEONCIO PRADO | HUANUCO      | 100604 | 1844      | 011100110100 |
| LUYANDO                 | LEONCIO PRADO | HUANUCO      | 100605 | 1845      | 011100110101 |
| MARIANO DAMASO BERAUN   | LEONCIO PRADO | HUANUCO      | 100606 | 1846      | 011100110110 |
| HUACRACHUCO             | MARAÑON       | HUANUCO      | 100701 | 1857      | 011101000001 |
| CHOLON                  | MARAÑON       | HUANUCO      | 100702 | 1858      | 011101000010 |
| SAN BUENAVENTURA        | MARAÑON       | HUANUCO      | 100703 | 1859      | 011101000011 |
| PANAO                   | PACHITEA      | HUANUCO      | 100801 | 1873      | 011101010001 |
| CHAGLLA                 | PACHITEA      | HUANUCO      | 100802 | 1874      | 011101010010 |
| MOLINO                  | PACHITEA      | HUANUCO      | 100803 | 1875      | 011101010011 |

| DISTRICT                | PROVINCE    | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------|-------------|------------|--------|-----------|--------------|
|                         |             |            |        | decimal   | binary       |
| UMARI                   | PACHITEA    | HUANUCO    | 100804 | 1876      | 011101010100 |
| PUERTO INCA             | PUERTO INCA | HUANUCO    | 100901 | 1889      | 011101100001 |
| CODO DEL POZUZO         | PUERTO INCA | HUANUCO    | 100902 | 1890      | 011101100010 |
| HONORIA                 | PUERTO INCA | HUANUCO    | 100903 | 1891      | 011101100011 |
| TOURNAVISTA             | PUERTO INCA | HUANUCO    | 100904 | 1892      | 011101100100 |
| YUYAPICHIS              | PUERTO INCA | HUANUCO    | 100905 | 1893      | 011101100101 |
| JESUS                   | LAURICOCHA  | HUANUCO    | 101001 | 1905      | 011101110001 |
| BAÑOS                   | LAURICOCHA  | HUANUCO    | 101002 | 1906      | 011101110010 |
| JIVIA                   | LAURICOCHA  | HUANUCO    | 101003 | 1907      | 011101110011 |
| QUEROPALCA              | LAURICOCHA  | HUANUCO    | 101004 | 1908      | 011101110100 |
| RONDOS                  | LAURICOCHA  | HUANUCO    | 101005 | 1909      | 011101110101 |
| SAN FRANCISCO DE ASIS   | LAURICOCHA  | HUANUCO    | 101006 | 1910      | 011101110110 |
| SAN MIGUEL DE CAURI     | LAURICOCHA  | HUANUCO    | 101007 | 1911      | 011101110111 |
| CHAVINILLO              | YAROWILCA   | HUANUCO    | 101101 | 1921      | 011110000001 |
| CAHUAC                  | YAROWILCA   | HUANUCO    | 101102 | 1922      | 011110000010 |
| CHACABAMBA              | YAROWILCA   | HUANUCO    | 101103 | 1923      | 011110000011 |
| APARICIO POMARES        | YAROWILCA   | HUANUCO    | 101104 | 1924      | 011110000100 |
| JACAS CHICO             | YAROWILCA   | HUANUCO    | 101105 | 1925      | 011110000101 |
| OBAS                    | YAROWILCA   | HUANUCO    | 101106 | 1926      | 011110000110 |
| PAMPAMARCA              | YAROWILCA   | HUANUCO    | 101107 | 1927      | 011110000111 |
| CHORAS                  | YAROWILCA   | HUANUCO    | 101108 | 1928      | 011110001000 |
| ICA                     | ICA         | ICA        | 110101 | 1953      | 011110100001 |
| LA TINGUIÑA             | ICA         | ICA        | 110102 | 1954      | 011110100010 |
| LOS AQUIJES             | ICA         | ICA        | 110103 | 1955      | 011110100011 |
| OCUCAJE                 | ICA         | ICA        | 110104 | 1956      | 011110100100 |
| PACHACUTEC              | ICA         | ICA        | 110105 | 1957      | 011110100101 |
| PARCONA                 | ICA         | ICA        | 110106 | 1958      | 011110100110 |
| PUEBLO NUEVO            | ICA         | ICA        | 110107 | 1959      | 011110100111 |
| SALAS                   | ICA         | ICA        | 110108 | 1960      | 011110101000 |
| SAN JOSE DE LOS MOLINOS | ICA         | ICA        | 110109 | 1961      | 011110101001 |
| SAN JUAN BAUTISTA       | ICA         | ICA        | 110110 | 1962      | 011110101010 |
| SANTIAGO                | ICA         | ICA        | 110111 | 1963      | 011110101011 |
| SUBTANJALLA             | ICA         | ICA        | 110112 | 1964      | 011110101100 |
| TATE                    | ICA         | ICA        | 110113 | 1965      | 011110101101 |
| YAUCA DEL ROSARIO       | ICA         | ICA        | 110114 | 1966      | 011110101110 |
| CHINCHA ALTA            | CHINCHA     | ICA        | 110201 | 1969      | 011110110001 |
| ALTO LARAN              | CHINCHA     | ICA        | 110202 | 1970      | 011110110010 |
| CHAVIN                  | CHINCHA     | ICA        | 110203 | 1971      | 011110110011 |
| CHINCHA BAJA            | CHINCHA     | ICA        | 110204 | 1972      | 011110110100 |
| EL CARMEN               | CHINCHA     | ICA        | 110205 | 1973      | 011110110101 |
| GROCIO PRADO            | CHINCHA     | ICA        | 110206 | 1974      | 011110110110 |
| PUEBLO NUEVO            | CHINCHA     | ICA        | 110207 | 1975      | 011110110111 |
| SAN JUAN DE YANAC       | CHINCHA     | ICA        | 110208 | 1976      | 011110111000 |
| SAN PEDRO DE HUACARPANA | CHINCHA     | ICA        | 110209 | 1977      | 011110111001 |
| SUNAMPE                 | CHINCHA     | ICA        | 110210 | 1978      | 011110111010 |
| TAMBO DE MORA           | CHINCHA     | ICA        | 110211 | 1979      | 011110111011 |
| NAZCA                   | NAZCA       | ICA        | 110301 | 1985      | 011111000001 |
| CHANGUILLO              | NAZCA       | ICA        | 110302 | 1986      | 011111000010 |
| EL INGENIO              | NAZCA       | ICA        | 110303 | 1987      | 011111000011 |
| MARCONA                 | NAZCA       | ICA        | 110304 | 1988      | 011111000100 |
| VISTA ALEGRE            | NAZCA       | ICA        | 110305 | 1989      | 011111000101 |
| PALPA                   | PALPA       | ICA        | 110401 | 2001      | 011111010001 |
| LLIPATA                 | PALPA       | ICA        | 110402 | 2002      | 011111010010 |
| RIO GRANDE              | PALPA       | ICA        | 110403 | 2003      | 011111010011 |
| SANTA CRUZ              | PALPA       | ICA        | 110404 | 2004      | 011111010100 |
| TIBILLO                 | PALPA       | ICA        | 110405 | 2005      | 011111010101 |
| PISCO                   | PISCO       | ICA        | 110501 | 2017      | 011111100001 |
| HUANCANO                | PISCO       | ICA        | 110502 | 2018      | 011111100010 |

| DISTRICT                  | PROVINCE    | DEPARTMENT | UBIGEO | AREA CODE |                |
|---------------------------|-------------|------------|--------|-----------|----------------|
|                           |             |            |        | decimal   | binary         |
| HUMAY                     | PISCO       | ICA        | 110503 | 2019      | 011111100011   |
| INDEPENDENCIA             | PISCO       | ICA        | 110504 | 2020      | 011111100100   |
| PARACAS                   | PISCO       | ICA        | 110505 | 2021      | 011111100101   |
| SAN ANDRES                | PISCO       | ICA        | 110506 | 2022      | 011111100110   |
| SAN CLEMENTE              | PISCO       | ICA        | 110507 | 2023      | 011111100111   |
| TUPAC AMARU INCA          | PISCO       | ICA        | 110508 | 2024      | 011111101000   |
| HUANCAYO                  | HUANCAYO    | JUNIN      | 120101 | 2049      | 100000000001   |
| CARHUACALLANGA            | HUANCAYO    | JUNIN      | 120104 | 2050      | 100000000010   |
| CHACAPAMPA                | HUANCAYO    | JUNIN      | 120105 | 2051      | 100000000011   |
| CHICCHE                   | HUANCAYO    | JUNIN      | 120106 | 2052      | 100000000100   |
| CHILCA                    | HUANCAYO    | JUNIN      | 120107 | 2053      | 100000000101   |
| CHONGOS ALTO              | HUANCAYO    | JUNIN      | 120108 | 2054      | 100000000110   |
| CHUPURO                   | HUANCAYO    | JUNIN      | 120111 | 2055      | 100000000111   |
| COLCA                     | HUANCAYO    | JUNIN      | 120112 | 2056      | 1000000001000  |
| CULLHUAS                  | HUANCAYO    | JUNIN      | 120113 | 2057      | 1000000001001  |
| EL TAMBO                  | HUANCAYO    | JUNIN      | 120114 | 2058      | 1000000001010  |
| HUACRAPUQUIO              | HUANCAYO    | JUNIN      | 120116 | 2059      | 1000000001011  |
| HUALHUAS                  | HUANCAYO    | JUNIN      | 120117 | 2060      | 1000000001100  |
| HUANCAN                   | HUANCAYO    | JUNIN      | 120119 | 2061      | 1000000001101  |
| HUASICANCHA               | HUANCAYO    | JUNIN      | 120120 | 2062      | 1000000001110  |
| HUAYUCACHI                | HUANCAYO    | JUNIN      | 120121 | 2063      | 1000000001111  |
| INGENIO                   | HUANCAYO    | JUNIN      | 120122 | 2064      | 10000000010000 |
| PARIAHUANCA               | HUANCAYO    | JUNIN      | 120124 | 2065      | 10000000010001 |
| PILCOMAYO                 | HUANCAYO    | JUNIN      | 120125 | 2066      | 10000000010010 |
| PUCARA                    | HUANCAYO    | JUNIN      | 120126 | 2067      | 10000000010011 |
| QUICHUAY                  | HUANCAYO    | JUNIN      | 120127 | 2068      | 10000000010100 |
| QUILCAS                   | HUANCAYO    | JUNIN      | 120128 | 2069      | 10000000010101 |
| SAN AGUSTIN               | HUANCAYO    | JUNIN      | 120129 | 2070      | 10000000010110 |
| SAN JERONIMO DE TUNAN     | HUANCAYO    | JUNIN      | 120130 | 2071      | 10000000010111 |
| SAÑO                      | HUANCAYO    | JUNIN      | 120132 | 2072      | 10000000011000 |
| SAPALLANGA                | HUANCAYO    | JUNIN      | 120133 | 2073      | 10000000011001 |
| SICAYA                    | HUANCAYO    | JUNIN      | 120134 | 2074      | 10000000011010 |
| SANTO DOMINGO DE ACOBAMBA | HUANCAYO    | JUNIN      | 120135 | 2075      | 10000000011011 |
| VIQUES                    | HUANCAYO    | JUNIN      | 120136 | 2076      | 10000000011100 |
| CONCEPCION                | CONCEPCION  | JUNIN      | 120201 | 2081      | 100000100001   |
| ACO                       | CONCEPCION  | JUNIN      | 120202 | 2082      | 100000100010   |
| ANDAMARCA                 | CONCEPCION  | JUNIN      | 120203 | 2083      | 100000100011   |
| CHAMBARA                  | CONCEPCION  | JUNIN      | 120204 | 2084      | 100000100100   |
| COCHAS                    | CONCEPCION  | JUNIN      | 120205 | 2085      | 100000100101   |
| COMAS                     | CONCEPCION  | JUNIN      | 120206 | 2086      | 100000100110   |
| HEROINAS TOLEDO           | CONCEPCION  | JUNIN      | 120207 | 2087      | 100000100111   |
| MANZANARES                | CONCEPCION  | JUNIN      | 120208 | 2088      | 100000101000   |
| MARISCAL CASTILLA         | CONCEPCION  | JUNIN      | 120209 | 2089      | 100000101001   |
| MATAHUASI                 | CONCEPCION  | JUNIN      | 120210 | 2090      | 100000101010   |
| MITO                      | CONCEPCION  | JUNIN      | 120211 | 2091      | 100000101011   |
| NUEVE DE JULIO            | CONCEPCION  | JUNIN      | 120212 | 2092      | 100000101100   |
| ORCOTUNA                  | CONCEPCION  | JUNIN      | 120213 | 2093      | 100000101101   |
| SAN JOSE DE QUERO         | CONCEPCION  | JUNIN      | 120214 | 2094      | 100000101110   |
| SANTA ROSA DE OCOPA       | CONCEPCION  | JUNIN      | 120215 | 2095      | 100000101111   |
| CHANCHAMAYO               | CHANCHAMAYO | JUNIN      | 120301 | 2113      | 100001000001   |
| PERENE                    | CHANCHAMAYO | JUNIN      | 120302 | 2114      | 100001000010   |
| PICHANAQUI                | CHANCHAMAYO | JUNIN      | 120303 | 2115      | 100001000011   |
| SAN LUIS DE SHUARO        | CHANCHAMAYO | JUNIN      | 120304 | 2116      | 100001000100   |
| SAN RAMON                 | CHANCHAMAYO | JUNIN      | 120305 | 2117      | 100001000101   |
| VITOC                     | CHANCHAMAYO | JUNIN      | 120306 | 2118      | 100001000110   |
| JAUJA                     | JAUJA       | JUNIN      | 120401 | 2129      | 100001010001   |
| ACOLLA                    | JAUJA       | JUNIN      | 120402 | 2130      | 100001010010   |
| APATA                     | JAUJA       | JUNIN      | 120403 | 2131      | 100001010011   |

| DISTRICT                     | PROVINCE | DEPARTMENT | UBIGEO | AREA CODE |              |
|------------------------------|----------|------------|--------|-----------|--------------|
|                              |          |            |        | decimal   | binary       |
| ATAURA                       | JAUJA    | JUNIN      | 120404 | 2132      | 100001010100 |
| CANCHAYLLO                   | JAUJA    | JUNIN      | 120405 | 2133      | 100001010101 |
| CURICACA                     | JAUJA    | JUNIN      | 120406 | 2134      | 100001010110 |
| EL MANTARO                   | JAUJA    | JUNIN      | 120407 | 2135      | 100001010111 |
| HUAMALI                      | JAUJA    | JUNIN      | 120408 | 2136      | 100001011000 |
| HUARIPAMPA                   | JAUJA    | JUNIN      | 120409 | 2137      | 100001011001 |
| HUERTAS                      | JAUJA    | JUNIN      | 120410 | 2138      | 100001011010 |
| JANJAILLO                    | JAUJA    | JUNIN      | 120411 | 2139      | 100001011011 |
| JULCAN                       | JAUJA    | JUNIN      | 120412 | 2140      | 100001011100 |
| LEONOR ORDOÑEZ               | JAUJA    | JUNIN      | 120413 | 2141      | 100001011101 |
| LLOC LLAPAMPA                | JAUJA    | JUNIN      | 120414 | 2142      | 100001011110 |
| MARCO                        | JAUJA    | JUNIN      | 120415 | 2143      | 100001011111 |
| MASMA                        | JAUJA    | JUNIN      | 120416 | 2144      | 100001100000 |
| MASMA CHICCHE                | JAUJA    | JUNIN      | 120417 | 2145      | 100001100001 |
| MOLINOS                      | JAUJA    | JUNIN      | 120418 | 2146      | 100001100010 |
| MONOBAMBA                    | JAUJA    | JUNIN      | 120419 | 2147      | 100001100011 |
| MUQUI                        | JAUJA    | JUNIN      | 120420 | 2148      | 100001100100 |
| MUQUIYAUYO                   | JAUJA    | JUNIN      | 120421 | 2149      | 100001100101 |
| PACA                         | JAUJA    | JUNIN      | 120422 | 2150      | 100001100110 |
| PACCHA                       | JAUJA    | JUNIN      | 120423 | 2151      | 100001100111 |
| PANCAN                       | JAUJA    | JUNIN      | 120424 | 2152      | 100001101000 |
| PARCO                        | JAUJA    | JUNIN      | 120425 | 2153      | 100001101001 |
| POMACANCHA                   | JAUJA    | JUNIN      | 120426 | 2154      | 100001101010 |
| RICRAN                       | JAUJA    | JUNIN      | 120427 | 2155      | 100001101011 |
| SAN LORENZO                  | JAUJA    | JUNIN      | 120428 | 2156      | 100001101100 |
| SAN PEDRO DE CHUNAN          | JAUJA    | JUNIN      | 120429 | 2157      | 100001101101 |
| SAUSA                        | JAUJA    | JUNIN      | 120430 | 2158      | 100001101110 |
| SINCOS                       | JAUJA    | JUNIN      | 120431 | 2159      | 100001101111 |
| TUNAN MARCA                  | JAUJA    | JUNIN      | 120432 | 2160      | 100001110000 |
| YAULI                        | JAUJA    | JUNIN      | 120433 | 2161      | 100001110001 |
| YAUYOS                       | JAUJA    | JUNIN      | 120434 | 2162      | 100001110010 |
| JUNIN                        | JUNIN    | JUNIN      | 120501 | 2177      | 100010000001 |
| CARHUAMAYO                   | JUNIN    | JUNIN      | 120502 | 2178      | 100010000010 |
| ONDORES                      | JUNIN    | JUNIN      | 120503 | 2179      | 100010000011 |
| ULCUMAYO                     | JUNIN    | JUNIN      | 120504 | 2180      | 10001000100  |
| SATIPO                       | SATIPO   | JUNIN      | 120601 | 2193      | 100010010001 |
| COVIRIALI                    | SATIPO   | JUNIN      | 120602 | 2194      | 100010010010 |
| LLAYLLA                      | SATIPO   | JUNIN      | 120603 | 2195      | 100010010011 |
| PAMPA HERMOSA                | SATIPO   | JUNIN      | 120605 | 2196      | 100010010100 |
| RIO NEGRO                    | SATIPO   | JUNIN      | 120607 | 2197      | 100010010101 |
| RIO TAMBO                    | SATIPO   | JUNIN      | 120608 | 2198      | 100010010110 |
| MAZAMARI - PANGOA            | SATIPO   | JUNIN      | 120609 | 2199      | 100010010111 |
| TARMA                        | TARMA    | JUNIN      | 120701 | 2209      | 100010100001 |
| ACOBAMBA                     | TARMA    | JUNIN      | 120702 | 2210      | 100010100010 |
| HUARICOLCA                   | TARMA    | JUNIN      | 120703 | 2211      | 100010100011 |
| HUASAHUASI                   | TARMA    | JUNIN      | 120704 | 2212      | 100010100100 |
| LA UNION                     | TARMA    | JUNIN      | 120705 | 2213      | 100010100101 |
| PALCA                        | TARMA    | JUNIN      | 120706 | 2214      | 100010100110 |
| PALCAMAYO                    | TARMA    | JUNIN      | 120707 | 2215      | 100010100111 |
| SAN PEDRO DE CAJAS           | TARMA    | JUNIN      | 120708 | 2216      | 100010101000 |
| TAPO                         | TARMA    | JUNIN      | 120709 | 2217      | 100010101001 |
| LA OROYA                     | YAULI    | JUNIN      | 120801 | 2225      | 100010110001 |
| CHACAPALPA                   | YAULI    | JUNIN      | 120802 | 2226      | 100010110010 |
| HUAY-HUAY                    | YAULI    | JUNIN      | 120803 | 2227      | 100010110011 |
| MARCAPOMACOCHA               | YAULI    | JUNIN      | 120804 | 2228      | 100010110100 |
| MOROCOCHA                    | YAULI    | JUNIN      | 120805 | 2229      | 100010110101 |
| PACCHA                       | YAULI    | JUNIN      | 120806 | 2230      | 100010110110 |
| SANTA BARBARA DE CARHUACAYAN | YAULI    | JUNIN      | 120807 | 2231      | 100010110111 |

| DISTRICT             | PROVINCE  | DEPARTMENT  | UBIGEO | AREA CODE |              |
|----------------------|-----------|-------------|--------|-----------|--------------|
|                      |           |             |        | decimal   | binary       |
| SANTA ROSA DE SACCO  | YAULI     | JUNIN       | 120808 | 2232      | 100010111000 |
| SUITUCANCHA          | YAULI     | JUNIN       | 120809 | 2233      | 100010111001 |
| YAULI                | YAULI     | JUNIN       | 120810 | 2234      | 100010111010 |
| CHUPACA              | CHUPACA   | JUNIN       | 120901 | 2241      | 100011000001 |
| AHUAC                | CHUPACA   | JUNIN       | 120902 | 2242      | 100011000010 |
| CHONGOS BAJO         | CHUPACA   | JUNIN       | 120903 | 2243      | 100011000011 |
| HUACHAC              | CHUPACA   | JUNIN       | 120904 | 2244      | 100011000100 |
| HUAMANCACA CHICO     | CHUPACA   | JUNIN       | 120905 | 2245      | 100011000101 |
| SAN JUAN DE ISCOS    | CHUPACA   | JUNIN       | 120906 | 2246      | 100011000110 |
| SAN JUAN DE JARPA    | CHUPACA   | JUNIN       | 120907 | 2247      | 100011000111 |
| TRES DE DICIEMBRE    | CHUPACA   | JUNIN       | 120908 | 2248      | 100011001000 |
| YANACANCHA           | CHUPACA   | JUNIN       | 120909 | 2249      | 100011001001 |
| TRUJILLO             | TRUJILLO  | LA LIBERTAD | 130101 | 2273      | 100011100001 |
| EL PORVENIR          | TRUJILLO  | LA LIBERTAD | 130102 | 2274      | 100011100010 |
| FLORENCIA DE MORA    | TRUJILLO  | LA LIBERTAD | 130103 | 2275      | 100011100011 |
| HUANCHACO            | TRUJILLO  | LA LIBERTAD | 130104 | 2276      | 100011100100 |
| LA ESPERANZA         | TRUJILLO  | LA LIBERTAD | 130105 | 2277      | 100011100101 |
| LAREDO               | TRUJILLO  | LA LIBERTAD | 130106 | 2278      | 100011100110 |
| MOCHE                | TRUJILLO  | LA LIBERTAD | 130107 | 2279      | 100011100111 |
| POROTO               | TRUJILLO  | LA LIBERTAD | 130108 | 2280      | 100011101000 |
| SALAVERRY            | TRUJILLO  | LA LIBERTAD | 130109 | 2281      | 100011101001 |
| SIMBAL               | TRUJILLO  | LA LIBERTAD | 130110 | 2282      | 100011101010 |
| VICTOR LARCO HERRERA | TRUJILLO  | LA LIBERTAD | 130111 | 2283      | 100011101011 |
| ASCOPE               | ASCOPE    | LA LIBERTAD | 130201 | 2289      | 100011100001 |
| CHICAMA              | ASCOPE    | LA LIBERTAD | 130202 | 2290      | 100011100010 |
| CHOCOPE              | ASCOPE    | LA LIBERTAD | 130203 | 2291      | 100011100011 |
| MAGDALENA DE CAO     | ASCOPE    | LA LIBERTAD | 130204 | 2292      | 10001110100  |
| PAIJAN               | ASCOPE    | LA LIBERTAD | 130205 | 2293      | 10001110101  |
| RAZURI               | ASCOPE    | LA LIBERTAD | 130206 | 2294      | 10001110110  |
| SANTIAGO DE CAO      | ASCOPE    | LA LIBERTAD | 130207 | 2295      | 10001110111  |
| CASA GRANDE          | ASCOPE    | LA LIBERTAD | 130208 | 2296      | 10001111000  |
| BOLIVAR              | BOLIVAR   | LA LIBERTAD | 130301 | 2305      | 100100000001 |
| BAMBAMARCA           | BOLIVAR   | LA LIBERTAD | 130302 | 2306      | 100100000010 |
| CONDORMARCA          | BOLIVAR   | LA LIBERTAD | 130303 | 2307      | 100100000011 |
| LONGOTEA             | BOLIVAR   | LA LIBERTAD | 130304 | 2308      | 100100000100 |
| UCHUMARCA            | BOLIVAR   | LA LIBERTAD | 130305 | 2309      | 100100000101 |
| UCUNCHA              | BOLIVAR   | LA LIBERTAD | 130306 | 2310      | 100100000110 |
| CHEPEN               | CHEPEN    | LA LIBERTAD | 130401 | 2321      | 100100010001 |
| PACANGA              | CHEPEN    | LA LIBERTAD | 130402 | 2322      | 100100010010 |
| PUEBLO NUEVO         | CHEPEN    | LA LIBERTAD | 130403 | 2323      | 100100010011 |
| JULCAN               | JULCAN    | LA LIBERTAD | 130501 | 2337      | 100100100001 |
| CALAMARCA            | JULCAN    | LA LIBERTAD | 130502 | 2338      | 100100100010 |
| CARABAMBA            | JULCAN    | LA LIBERTAD | 130503 | 2339      | 100100100011 |
| HUASO                | JULCAN    | LA LIBERTAD | 130504 | 2340      | 100100100100 |
| OTUZCO               | OTUZCO    | LA LIBERTAD | 130601 | 2353      | 100100110001 |
| AGALLPAMPA           | OTUZCO    | LA LIBERTAD | 130602 | 2354      | 100100110010 |
| CHARAT               | OTUZCO    | LA LIBERTAD | 130604 | 2355      | 100100110011 |
| HUARANCHAL           | OTUZCO    | LA LIBERTAD | 130605 | 2356      | 100100110100 |
| LA CUESTA            | OTUZCO    | LA LIBERTAD | 130606 | 2357      | 100100110101 |
| MACHE                | OTUZCO    | LA LIBERTAD | 130608 | 2358      | 100100110110 |
| PARANDAY             | OTUZCO    | LA LIBERTAD | 130610 | 2359      | 100100110111 |
| SALPO                | OTUZCO    | LA LIBERTAD | 130611 | 2360      | 100100111000 |
| SINSICAP             | OTUZCO    | LA LIBERTAD | 130613 | 2361      | 100100111001 |
| USQUIL               | OTUZCO    | LA LIBERTAD | 130614 | 2362      | 100100111010 |
| SAN PEDRO DE LLOC    | PACASMAYO | LA LIBERTAD | 130701 | 2369      | 100101000001 |
| GUADALUPE            | PACASMAYO | LA LIBERTAD | 130702 | 2370      | 100101000010 |
| JEQUETEPEQUE         | PACASMAYO | LA LIBERTAD | 130703 | 2371      | 100101000011 |
| PACASMAYO            | PACASMAYO | LA LIBERTAD | 130704 | 2372      | 100101000100 |

| DISTRICT            | PROVINCE          | DEPARTMENT  | UBIGEO | AREA CODE |              |
|---------------------|-------------------|-------------|--------|-----------|--------------|
|                     |                   |             |        | decimal   | binary       |
| SAN JOSE            | PACASMAYO         | LA LIBERTAD | 130705 | 2373      | 100101000101 |
| TAYABAMBA           | PATAZ             | LA LIBERTAD | 130801 | 2385      | 100101010001 |
| BULDIBUYO           | PATAZ             | LA LIBERTAD | 130802 | 2386      | 100101010010 |
| CHILLIA             | PATAZ             | LA LIBERTAD | 130803 | 2387      | 100101010011 |
| HUANCASPATA         | PATAZ             | LA LIBERTAD | 130804 | 2388      | 100101010100 |
| HUAYLILLAS          | PATAZ             | LA LIBERTAD | 130805 | 2389      | 100101010101 |
| HUAYO               | PATAZ             | LA LIBERTAD | 130806 | 2390      | 100101010110 |
| ONGON               | PATAZ             | LA LIBERTAD | 130807 | 2391      | 100101010111 |
| PARCOY              | PATAZ             | LA LIBERTAD | 130808 | 2392      | 100101011000 |
| PATAZ               | PATAZ             | LA LIBERTAD | 130809 | 2393      | 100101011001 |
| PIAS                | PATAZ             | LA LIBERTAD | 130810 | 2394      | 100101011010 |
| SANTIAGO DE CHALLAS | PATAZ             | LA LIBERTAD | 130811 | 2395      | 100101011011 |
| TAURIJA             | PATAZ             | LA LIBERTAD | 130812 | 2396      | 100101011100 |
| URPAY               | PATAZ             | LA LIBERTAD | 130813 | 2397      | 100101011101 |
| HUAMACHUCO          | SANCHEZ CARRION   | LA LIBERTAD | 130901 | 2401      | 100101100001 |
| CHUGAY              | SANCHEZ CARRION   | LA LIBERTAD | 130902 | 2402      | 100101100010 |
| COCHORCO            | SANCHEZ CARRION   | LA LIBERTAD | 130903 | 2403      | 100101100011 |
| CURGOS              | SANCHEZ CARRION   | LA LIBERTAD | 130904 | 2404      | 100101100100 |
| MARCABAL            | SANCHEZ CARRION   | LA LIBERTAD | 130905 | 2405      | 100101100101 |
| SANAGORAN           | SANCHEZ CARRION   | LA LIBERTAD | 130906 | 2406      | 100101100110 |
| SARIN               | SANCHEZ CARRION   | LA LIBERTAD | 130907 | 2407      | 100101100111 |
| SARTIMBAMBA         | SANCHEZ CARRION   | LA LIBERTAD | 130908 | 2408      | 100101101000 |
| SANTIAGO DE CHUCO   | SANTIAGO DE CHUCO | LA LIBERTAD | 131001 | 2417      | 100101110001 |
| ANGASMARCA          | SANTIAGO DE CHUCO | LA LIBERTAD | 131002 | 2418      | 100101110010 |
| CACHICADAN          | SANTIAGO DE CHUCO | LA LIBERTAD | 131003 | 2419      | 100101110011 |
| MOLLEBAMBA          | SANTIAGO DE CHUCO | LA LIBERTAD | 131004 | 2420      | 100101110100 |
| MOLLEPATA           | SANTIAGO DE CHUCO | LA LIBERTAD | 131005 | 2421      | 100101110101 |
| QUIRUVILCA          | SANTIAGO DE CHUCO | LA LIBERTAD | 131006 | 2422      | 100101110110 |
| SANTA CRUZ DE CHUCA | SANTIAGO DE CHUCO | LA LIBERTAD | 131007 | 2423      | 100101110111 |
| SITABAMBA           | SANTIAGO DE CHUCO | LA LIBERTAD | 131008 | 2424      | 100101111000 |
| CASCAS              | GRAN CHIMU        | LA LIBERTAD | 131101 | 2433      | 100110000001 |
| LUCMA               | GRAN CHIMU        | LA LIBERTAD | 131102 | 2434      | 100110000010 |
| MARMOT              | GRAN CHIMU        | LA LIBERTAD | 131103 | 2435      | 100110000011 |
| SAYAPULLO           | GRAN CHIMU        | LA LIBERTAD | 131104 | 2436      | 100110000100 |
| VIRU                | VIRU              | LA LIBERTAD | 131201 | 2449      | 100110010001 |
| CHAO                | VIRU              | LA LIBERTAD | 131202 | 2450      | 100110010010 |
| GUADALUPITO         | VIRU              | LA LIBERTAD | 131203 | 2451      | 100110010011 |
| CHICLAYO            | CHICLAYO          | LAMBAYEQUE  | 140101 | 2481      | 100110110001 |
| CHONGOYAPE          | CHICLAYO          | LAMBAYEQUE  | 140102 | 2482      | 100110110010 |
| ETEN                | CHICLAYO          | LAMBAYEQUE  | 140103 | 2483      | 100110110011 |
| ETEN PUERTO         | CHICLAYO          | LAMBAYEQUE  | 140104 | 2484      | 100110110100 |
| JOSE LEONARDO ORTIZ | CHICLAYO          | LAMBAYEQUE  | 140105 | 2485      | 100110110101 |
| LA VICTORIA         | CHICLAYO          | LAMBAYEQUE  | 140106 | 2486      | 100110110110 |
| LAGUNAS             | CHICLAYO          | LAMBAYEQUE  | 140107 | 2487      | 100110110111 |
| MONSEFU             | CHICLAYO          | LAMBAYEQUE  | 140108 | 2488      | 100110111000 |
| NUEVA ARICA         | CHICLAYO          | LAMBAYEQUE  | 140109 | 2489      | 100110111001 |
| OYOTUN              | CHICLAYO          | LAMBAYEQUE  | 140110 | 2490      | 100110111010 |
| PICSI               | CHICLAYO          | LAMBAYEQUE  | 140111 | 2491      | 100110111011 |
| PIMENTEL            | CHICLAYO          | LAMBAYEQUE  | 140112 | 2492      | 100110111100 |
| REQUE               | CHICLAYO          | LAMBAYEQUE  | 140113 | 2493      | 100110111101 |
| SANTA ROSA          | CHICLAYO          | LAMBAYEQUE  | 140114 | 2494      | 100110111110 |
| SAÑA                | CHICLAYO          | LAMBAYEQUE  | 140115 | 2495      | 100110111111 |
| CAYALTI             | CHICLAYO          | LAMBAYEQUE  | 140116 | 2496      | 100111000000 |
| PATAPO              | CHICLAYO          | LAMBAYEQUE  | 140117 | 2497      | 100111000001 |
| POMALCA             | CHICLAYO          | LAMBAYEQUE  | 140118 | 2498      | 100111000010 |
| PUCALA              | CHICLAYO          | LAMBAYEQUE  | 140119 | 2499      | 100111000011 |
| TUMAN               | CHICLAYO          | LAMBAYEQUE  | 140120 | 2500      | 100111000100 |
| FERREÑAFE           | FERREÑAFE         | LAMBAYEQUE  | 140201 | 2513      | 100111010001 |

| DISTRICT                    | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------------|------------|------------|--------|-----------|--------------|
|                             |            |            |        | decimal   | binary       |
| CAÑARIS                     | FERREÑAFE  | LAMBAYEQUE | 140202 | 2514      | 100111010010 |
| INCAHUASI                   | FERREÑAFE  | LAMBAYEQUE | 140203 | 2515      | 100111010011 |
| MANUEL ANTONIO MESONES MURO | FERREÑAFE  | LAMBAYEQUE | 140204 | 2516      | 100111010100 |
| PITIPO                      | FERREÑAFE  | LAMBAYEQUE | 140205 | 2517      | 100111010101 |
| PUEBLO NUEVO                | FERREÑAFE  | LAMBAYEQUE | 140206 | 2518      | 100111010110 |
| LAMBAYEQUE                  | LAMBAYEQUE | LAMBAYEQUE | 140301 | 2529      | 100111100001 |
| CHOCHOPE                    | LAMBAYEQUE | LAMBAYEQUE | 140302 | 2530      | 100111100010 |
| ILLIMO                      | LAMBAYEQUE | LAMBAYEQUE | 140303 | 2531      | 100111100011 |
| JAYANCA                     | LAMBAYEQUE | LAMBAYEQUE | 140304 | 2532      | 100111100100 |
| MOCHUMI                     | LAMBAYEQUE | LAMBAYEQUE | 140305 | 2533      | 100111100101 |
| MORROPE                     | LAMBAYEQUE | LAMBAYEQUE | 140306 | 2534      | 100111100110 |
| MOTUPE                      | LAMBAYEQUE | LAMBAYEQUE | 140307 | 2535      | 100111100111 |
| OLMOS                       | LAMBAYEQUE | LAMBAYEQUE | 140308 | 2536      | 100111101000 |
| PACORA                      | LAMBAYEQUE | LAMBAYEQUE | 140309 | 2537      | 100111101001 |
| SALAS                       | LAMBAYEQUE | LAMBAYEQUE | 140310 | 2538      | 100111101010 |
| SAN JOSE                    | LAMBAYEQUE | LAMBAYEQUE | 140311 | 2539      | 100111101011 |
| TUCUME                      | LAMBAYEQUE | LAMBAYEQUE | 140312 | 2540      | 100111101100 |
| LIMA                        | LIMA       | LIMA       | 150101 | 2561      | 101000000001 |
| ANCON                       | LIMA       | LIMA       | 150102 | 2562      | 101000000010 |
| ATE                         | LIMA       | LIMA       | 150103 | 2563      | 101000000011 |
| BARRANCO                    | LIMA       | LIMA       | 150104 | 2564      | 101000000100 |
| BREÑA                       | LIMA       | LIMA       | 150105 | 2565      | 101000000101 |
| CARABAYLLO                  | LIMA       | LIMA       | 150106 | 2566      | 101000000110 |
| CHAACLACAYO                 | LIMA       | LIMA       | 150107 | 2567      | 101000000111 |
| CHORRILLOS                  | LIMA       | LIMA       | 150108 | 2568      | 101000001000 |
| CIENEGUILLA                 | LIMA       | LIMA       | 150109 | 2569      | 101000001001 |
| COMAS                       | LIMA       | LIMA       | 150110 | 2570      | 101000001010 |
| EL AGUSTINO                 | LIMA       | LIMA       | 150111 | 2571      | 101000001011 |
| INDEPENDENCIA               | LIMA       | LIMA       | 150112 | 2572      | 101000001100 |
| JESUS MARIA                 | LIMA       | LIMA       | 150113 | 2573      | 101000001101 |
| LA MOLINA                   | LIMA       | LIMA       | 150114 | 2574      | 101000001110 |
| LA VICTORIA                 | LIMA       | LIMA       | 150115 | 2575      | 101000001111 |
| LINCE                       | LIMA       | LIMA       | 150116 | 2576      | 101000010000 |
| LOS OLIVOS                  | LIMA       | LIMA       | 150117 | 2577      | 101000010001 |
| LURIGANCHO                  | LIMA       | LIMA       | 150118 | 2578      | 101000010010 |
| LURIN                       | LIMA       | LIMA       | 150119 | 2579      | 101000010011 |
| MAGDALENA DEL MAR           | LIMA       | LIMA       | 150120 | 2580      | 101000010100 |
| PUEBLO LIBRE                | LIMA       | LIMA       | 150121 | 2581      | 101000010101 |
| MIRAFLORES                  | LIMA       | LIMA       | 150122 | 2582      | 101000010110 |
| PACHACAMAC                  | LIMA       | LIMA       | 150123 | 2583      | 101000010111 |
| PUCUSANA                    | LIMA       | LIMA       | 150124 | 2584      | 101000011000 |
| PUENTE PIEDRA               | LIMA       | LIMA       | 150125 | 2585      | 101000011001 |
| PUNTA HERMOSA               | LIMA       | LIMA       | 150126 | 2586      | 101000011010 |
| PUNTA NEGRA                 | LIMA       | LIMA       | 150127 | 2587      | 101000011011 |
| RIMAC                       | LIMA       | LIMA       | 150128 | 2588      | 101000011100 |
| SAN BARTOLO                 | LIMA       | LIMA       | 150129 | 2589      | 101000011101 |
| SAN BORJA                   | LIMA       | LIMA       | 150130 | 2590      | 101000011110 |
| SAN ISIDRO                  | LIMA       | LIMA       | 150131 | 2591      | 101000011111 |
| SAN JUAN DE LURIGANCHO      | LIMA       | LIMA       | 150132 | 2592      | 101000100000 |
| SAN JUAN DE MIRAFLORES      | LIMA       | LIMA       | 150133 | 2593      | 101000100001 |
| SAN LUIS                    | LIMA       | LIMA       | 150134 | 2594      | 101000100010 |
| SAN MARTIN DE PORRES        | LIMA       | LIMA       | 150135 | 2595      | 101000100011 |
| SAN MIGUEL                  | LIMA       | LIMA       | 150136 | 2596      | 101000100100 |
| SANTA ANITA                 | LIMA       | LIMA       | 150137 | 2597      | 101000100101 |
| SANTA MARIA DEL MAR         | LIMA       | LIMA       | 150138 | 2598      | 101000100110 |
| SANTA ROSA                  | LIMA       | LIMA       | 150139 | 2599      | 101000100111 |
| SANTIAGO DE SURCO           | LIMA       | LIMA       | 150140 | 2600      | 101000101000 |
| SURQUILLO                   | LIMA       | LIMA       | 150141 | 2601      | 101000101001 |

| DISTRICT                 | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|--------------------------|------------|------------|--------|-----------|--------------|
|                          |            |            |        | decimal   | binary       |
| VILLA EL SALVADOR        | LIMA       | LIMA       | 150142 | 2602      | 101000101010 |
| VILLA MARIA DEL TRIUNFO  | LIMA       | LIMA       | 150143 | 2603      | 101000101011 |
| BARRANCA                 | BARRANCA   | LIMA       | 150201 | 2609      | 101000110001 |
| PARAMONGA                | BARRANCA   | LIMA       | 150202 | 2610      | 101000110010 |
| PATivilca                | BARRANCA   | LIMA       | 150203 | 2611      | 101000110011 |
| SUPE                     | BARRANCA   | LIMA       | 150204 | 2612      | 101000110100 |
| SUPE PUERTO              | BARRANCA   | LIMA       | 150205 | 2613      | 101000110101 |
| CAJATAMBO                | CAJATAMBO  | LIMA       | 150301 | 2625      | 101001000001 |
| COPA                     | CAJATAMBO  | LIMA       | 150302 | 2626      | 101001000010 |
| GORGOR                   | CAJATAMBO  | LIMA       | 150303 | 2627      | 101001000011 |
| HUANCAPON                | CAJATAMBO  | LIMA       | 150304 | 2628      | 101001000100 |
| MANAS                    | CAJATAMBO  | LIMA       | 150305 | 2629      | 101001000101 |
| CANTA                    | CANTA      | LIMA       | 150401 | 2641      | 101001010001 |
| ARAHUAY                  | CANTA      | LIMA       | 150402 | 2642      | 101001010010 |
| HUAMANTANGA              | CANTA      | LIMA       | 150403 | 2643      | 101001010011 |
| HUAROS                   | CANTA      | LIMA       | 150404 | 2644      | 101001010100 |
| LACHAQUI                 | CANTA      | LIMA       | 150405 | 2645      | 101001010101 |
| SAN BUENAVENTURA         | CANTA      | LIMA       | 150406 | 2646      | 101001010110 |
| SANTA ROSA DE QUIVES     | CANTA      | LIMA       | 150407 | 2647      | 101001010111 |
| SAN VICENTE DE CAÑETE    | CAÑETE     | LIMA       | 150501 | 2657      | 101001100001 |
| ASIA                     | CAÑETE     | LIMA       | 150502 | 2658      | 101001100010 |
| CALANGO                  | CAÑETE     | LIMA       | 150503 | 2659      | 101001100011 |
| CERRO AZUL               | CAÑETE     | LIMA       | 150504 | 2660      | 101001100100 |
| CHILCA                   | CAÑETE     | LIMA       | 150505 | 2661      | 101001100101 |
| COAYLLO                  | CAÑETE     | LIMA       | 150506 | 2662      | 101001100110 |
| IMPERIAL                 | CAÑETE     | LIMA       | 150507 | 2663      | 101001100111 |
| LUNAHUANA                | CAÑETE     | LIMA       | 150508 | 2664      | 101001101000 |
| MALA                     | CAÑETE     | LIMA       | 150509 | 2665      | 101001101001 |
| NUEVO IMPERIAL           | CAÑETE     | LIMA       | 150510 | 2666      | 101001101010 |
| PACARAN                  | CAÑETE     | LIMA       | 150511 | 2667      | 101001101011 |
| QUILMANA                 | CAÑETE     | LIMA       | 150512 | 2668      | 101001101100 |
| SAN ANTONIO              | CAÑETE     | LIMA       | 150513 | 2669      | 101001101101 |
| SAN LUIS                 | CAÑETE     | LIMA       | 150514 | 2670      | 101001101110 |
| SANTA CRUZ DE FLORES     | CAÑETE     | LIMA       | 150515 | 2671      | 101001101111 |
| ZUÑIGA                   | CAÑETE     | LIMA       | 150516 | 2672      | 101001110000 |
| HUARAL                   | HUARAL     | LIMA       | 150601 | 2689      | 101010000001 |
| ATAVILLOS ALTO           | HUARAL     | LIMA       | 150602 | 2690      | 101010000010 |
| ATAVILLOS BAJO           | HUARAL     | LIMA       | 150603 | 2691      | 101010000011 |
| AUCALLAMA                | HUARAL     | LIMA       | 150604 | 2692      | 101010000100 |
| CHANCAY                  | HUARAL     | LIMA       | 150605 | 2693      | 101010000101 |
| IHUARI                   | HUARAL     | LIMA       | 150606 | 2694      | 101010000110 |
| LAMPIAN                  | HUARAL     | LIMA       | 150607 | 2695      | 101010000111 |
| PACARAOS                 | HUARAL     | LIMA       | 150608 | 2696      | 101010001000 |
| SAN MIGUEL DE ACOS       | HUARAL     | LIMA       | 150609 | 2697      | 101010001001 |
| SANTA CRUZ DE ANDAMARCA  | HUARAL     | LIMA       | 150610 | 2698      | 101010001010 |
| SUMBILCA                 | HUARAL     | LIMA       | 150611 | 2699      | 101010001011 |
| VEINTISIETE DE NOVIEMBRE | HUARAL     | LIMA       | 150612 | 2700      | 101010001100 |
| MATUCANA                 | HUAROCHIRI | LIMA       | 150701 | 2705      | 101010010001 |
| ANTIOQUIA                | HUAROCHIRI | LIMA       | 150702 | 2706      | 101010010010 |
| CALLAHUANCA              | HUAROCHIRI | LIMA       | 150703 | 2707      | 101010010011 |
| CARAMPOMA                | HUAROCHIRI | LIMA       | 150704 | 2708      | 101010010100 |
| CHICLA                   | HUAROCHIRI | LIMA       | 150705 | 2709      | 101010010101 |
| CUENCA                   | HUAROCHIRI | LIMA       | 150706 | 2710      | 101010010110 |
| HUACHUPAMPA              | HUAROCHIRI | LIMA       | 150707 | 2711      | 101010010111 |
| HUANZA                   | HUAROCHIRI | LIMA       | 150708 | 2712      | 101010011000 |
| HUAROCHIRI               | HUAROCHIRI | LIMA       | 150709 | 2713      | 101010011001 |
| LAHUAYTAMBO              | HUAROCHIRI | LIMA       | 150710 | 2714      | 101010011010 |
| LANGA                    | HUAROCHIRI | LIMA       | 150711 | 2715      | 101010011011 |

| DISTRICT                     | PROVINCE   | DEPARTMENT | UBIGEO | AREA CODE |              |
|------------------------------|------------|------------|--------|-----------|--------------|
|                              |            |            |        | decimal   | binary       |
| LARAOS                       | HUAROCHIRI | LIMA       | 150712 | 2716      | 101010011100 |
| MARIATANA                    | HUAROCHIRI | LIMA       | 150713 | 2717      | 101010011101 |
| RICARDO PALMA                | HUAROCHIRI | LIMA       | 150714 | 2718      | 101010011110 |
| SAN ANDRES DE TUPICOCHA      | HUAROCHIRI | LIMA       | 150715 | 2719      | 101010011111 |
| SAN ANTONIO                  | HUAROCHIRI | LIMA       | 150716 | 2720      | 101010100000 |
| SAN BARTOLOME                | HUAROCHIRI | LIMA       | 150717 | 2721      | 101010100001 |
| SAN DAMIAN                   | HUAROCHIRI | LIMA       | 150718 | 2722      | 101010100010 |
| SAN JUAN DE IRIS             | HUAROCHIRI | LIMA       | 150719 | 2723      | 101010100011 |
| SAN JUAN DE TANTARANCHE      | HUAROCHIRI | LIMA       | 150720 | 2724      | 101010100100 |
| SAN LORENZO DE QUINTI        | HUAROCHIRI | LIMA       | 150721 | 2725      | 101010100101 |
| SAN MATEO                    | HUAROCHIRI | LIMA       | 150722 | 2726      | 101010100110 |
| SAN MATEO DE OTAO            | HUAROCHIRI | LIMA       | 150723 | 2727      | 101010100111 |
| SAN PEDRO DE CASTA           | HUAROCHIRI | LIMA       | 150724 | 2728      | 101010101000 |
| SAN PEDRO DE HUANCAYRE       | HUAROCHIRI | LIMA       | 150725 | 2729      | 101010101001 |
| SANGALLAYA                   | HUAROCHIRI | LIMA       | 150726 | 2730      | 101010101010 |
| SANTA CRUZ DE COCACHACRA     | HUAROCHIRI | LIMA       | 150727 | 2731      | 101010101011 |
| SANTA EULALIA                | HUAROCHIRI | LIMA       | 150728 | 2732      | 101010101100 |
| SANTIAGO DE ANCHUCAYA        | HUAROCHIRI | LIMA       | 150729 | 2733      | 101010101101 |
| SANTIAGO DE TUNA             | HUAROCHIRI | LIMA       | 150730 | 2734      | 101010101110 |
| SANTO DOMINGO DE LOS OLLEROS | HUAROCHIRI | LIMA       | 150731 | 2735      | 101010101111 |
| SURCO                        | HUAROCHIRI | LIMA       | 150732 | 2736      | 101010110000 |
| HUACHO                       | HUAURA     | LIMA       | 150801 | 2753      | 101011000001 |
| AMBAR                        | HUAURA     | LIMA       | 150802 | 2754      | 101011000010 |
| CALETA DE CARQUIN            | HUAURA     | LIMA       | 150803 | 2755      | 101011000011 |
| CHECRAS                      | HUAURA     | LIMA       | 150804 | 2756      | 101011000100 |
| HUALMAY                      | HUAURA     | LIMA       | 150805 | 2757      | 101011000101 |
| HUAURA                       | HUAURA     | LIMA       | 150806 | 2758      | 101011000110 |
| LEONCIO PRADO                | HUAURA     | LIMA       | 150807 | 2759      | 101011000111 |
| PACCHO                       | HUAURA     | LIMA       | 150808 | 2760      | 101011001000 |
| SANTA LEONOR                 | HUAURA     | LIMA       | 150809 | 2761      | 101011001001 |
| SANTA MARIA                  | HUAURA     | LIMA       | 150810 | 2762      | 101011001010 |
| SAYAN                        | HUAURA     | LIMA       | 150811 | 2763      | 101011001011 |
| VEGUETA                      | HUAURA     | LIMA       | 150812 | 2764      | 101011001100 |
| OYON                         | OYON       | LIMA       | 150901 | 2769      | 101011010001 |
| ANDAJES                      | OYON       | LIMA       | 150902 | 2770      | 101011010010 |
| CAUJUL                       | OYON       | LIMA       | 150903 | 2771      | 101011010011 |
| COCHAMARCA                   | OYON       | LIMA       | 150904 | 2772      | 101011010100 |
| NAVAN                        | OYON       | LIMA       | 150905 | 2773      | 101011010101 |
| PACHANGARA                   | OYON       | LIMA       | 150906 | 2774      | 101011010110 |
| YAUYOS                       | YAUYOS     | LIMA       | 151001 | 2785      | 101011100001 |
| ALIS                         | YAUYOS     | LIMA       | 151002 | 2786      | 101011100010 |
| ALLAUCA                      | YAUYOS     | LIMA       | 151003 | 2787      | 101011100011 |
| AYAVIRI                      | YAUYOS     | LIMA       | 151004 | 2788      | 101011100100 |
| AZANGARO                     | YAUYOS     | LIMA       | 151005 | 2789      | 101011100101 |
| CACRA                        | YAUYOS     | LIMA       | 151006 | 2790      | 101011100110 |
| CARANIA                      | YAUYOS     | LIMA       | 151007 | 2791      | 101011100111 |
| CATAHUASI                    | YAUYOS     | LIMA       | 151008 | 2792      | 101011101000 |
| CHOCOS                       | YAUYOS     | LIMA       | 151009 | 2793      | 101011101001 |
| COCHAS                       | YAUYOS     | LIMA       | 151010 | 2794      | 101011101010 |
| COLONIA                      | YAUYOS     | LIMA       | 151011 | 2795      | 101011101011 |
| HONGOS                       | YAUYOS     | LIMA       | 151012 | 2796      | 101011101100 |
| HUAMPARA                     | YAUYOS     | LIMA       | 151013 | 2797      | 101011101101 |
| HUANCAYA                     | YAUYOS     | LIMA       | 151014 | 2798      | 101011101110 |
| HUANGASCAR                   | YAUYOS     | LIMA       | 151015 | 2799      | 101011101111 |
| HUANTAN                      | YAUYOS     | LIMA       | 151016 | 2800      | 101011110000 |
| HUAÑEC                       | YAUYOS     | LIMA       | 151017 | 2801      | 101011110001 |
| LARAOS                       | YAUYOS     | LIMA       | 151018 | 2802      | 101011110010 |
| LINCHA                       | YAUYOS     | LIMA       | 151019 | 2803      | 101011110011 |

| DISTRICT                   | PROVINCE                   | DEPARTMENT | UBIGEO | AREA CODE |              |
|----------------------------|----------------------------|------------|--------|-----------|--------------|
|                            |                            |            |        | decimal   | binary       |
| MADEAN                     | YAUYOS                     | LIMA       | 151020 | 2804      | 101011110100 |
| MIRAFLORES                 | YAUYOS                     | LIMA       | 151021 | 2805      | 101011110101 |
| OMAS                       | YAUYOS                     | LIMA       | 151022 | 2806      | 101011110110 |
| PUTINZA                    | YAUYOS                     | LIMA       | 151023 | 2807      | 101011110111 |
| QUINCHES                   | YAUYOS                     | LIMA       | 151024 | 2808      | 101011110000 |
| QUINOCAY                   | YAUYOS                     | LIMA       | 151025 | 2809      | 101011110001 |
| SAN JOAQUIN                | YAUYOS                     | LIMA       | 151026 | 2810      | 101011110101 |
| SAN PEDRO DE PILAS         | YAUYOS                     | LIMA       | 151027 | 2811      | 101011110111 |
| TANTA                      | YAUYOS                     | LIMA       | 151028 | 2812      | 10101111100  |
| TAURIPAMPA                 | YAUYOS                     | LIMA       | 151029 | 2813      | 10101111101  |
| TOMAS                      | YAUYOS                     | LIMA       | 151030 | 2814      | 10101111110  |
| TUPE                       | YAUYOS                     | LIMA       | 151031 | 2815      | 101011111111 |
| VIÑAC                      | YAUYOS                     | LIMA       | 151032 | 2816      | 101100000000 |
| VITIS                      | YAUYOS                     | LIMA       | 151033 | 2817      | 101100000001 |
| CALLAO                     | CALLAO                     | CALLAO     | 070101 | 2849      | 101100100001 |
| BELLAVISTA                 | CALLAO                     | CALLAO     | 070102 | 2850      | 101100100010 |
| CARMEN DE LA LEGUA REYNOSO | CALLAO                     | CALLAO     | 070103 | 2851      | 101100100011 |
| LA PERLA                   | CALLAO                     | CALLAO     | 070104 | 2852      | 101100100100 |
| LA PUNTA                   | CALLAO                     | CALLAO     | 070105 | 2853      | 101100100101 |
| VENTANILLA                 | CALLAO                     | CALLAO     | 070106 | 2854      | 101100100110 |
| IQUITOS                    | MAYNAS                     | LORETO     | 160101 | 2865      | 101100110001 |
| ALTO NANAY                 | MAYNAS                     | LORETO     | 160102 | 2866      | 101100110010 |
| FERNANDO LORES             | MAYNAS                     | LORETO     | 160103 | 2867      | 101100110011 |
| INDIANA                    | MAYNAS                     | LORETO     | 160104 | 2868      | 101100110100 |
| LAS AMAZONAS               | MAYNAS                     | LORETO     | 160105 | 2869      | 101100110101 |
| MAZAN                      | MAYNAS                     | LORETO     | 160106 | 2870      | 101100110110 |
| NAPO                       | MAYNAS                     | LORETO     | 160107 | 2871      | 101100110111 |
| PUNCHANA                   | MAYNAS                     | LORETO     | 160108 | 2872      | 101100111000 |
| PUTUMAYO                   | MAYNAS                     | LORETO     | 160109 | 2873      | 101100111001 |
| TORRES CAUSANA             | MAYNAS                     | LORETO     | 160110 | 2874      | 101100111010 |
| BELEN                      | MAYNAS                     | LORETO     | 160112 | 2875      | 101100111011 |
| SAN JUAN BAUTISTA          | MAYNAS                     | LORETO     | 160113 | 2876      | 101100111100 |
| TENIENTE MANUEL CLAVERO    | MAYNAS                     | LORETO     | 160114 | 2877      | 101100111101 |
| YURIMAGUAS                 | ALTO AMAZONAS              | LORETO     | 160201 | 2881      | 101101000001 |
| BALSAPUERTO                | ALTO AMAZONAS              | LORETO     | 160202 | 2882      | 101101000010 |
| JEBEROS                    | ALTO AMAZONAS              | LORETO     | 160205 | 2883      | 101101000011 |
| LAGUNAS                    | ALTO AMAZONAS              | LORETO     | 160206 | 2884      | 101101000100 |
| SANTA CRUZ                 | ALTO AMAZONAS              | LORETO     | 160210 | 2885      | 101101000101 |
| TENIENTE CESAR LOPEZ ROJAS | ALTO AMAZONAS              | LORETO     | 160211 | 2886      | 101101000110 |
| NAUTA                      | LORETO                     | LORETO     | 160301 | 2897      | 101101010001 |
| PARINARI                   | LORETO                     | LORETO     | 160302 | 2898      | 101101010010 |
| TIGRE                      | LORETO                     | LORETO     | 160303 | 2899      | 101101010011 |
| TROMPETEROS                | LORETO                     | LORETO     | 160304 | 2900      | 101101010100 |
| URARINAS                   | LORETO                     | LORETO     | 160305 | 2901      | 101101010101 |
| RAMON CASTILLA             | MARISCAL RAMON<br>CASTILLA | LORETO     | 160401 | 2913      | 101101100001 |
| PEBAS                      | MARISCAL RAMON<br>CASTILLA | LORETO     | 160402 | 2914      | 101101100010 |
| YAVARI                     | MARISCAL RAMON<br>CASTILLA | LORETO     | 160403 | 2915      | 101101100011 |
| SAN PABLO                  | MARISCAL RAMON<br>CASTILLA | LORETO     | 160404 | 2916      | 101101100100 |
| REQUENA                    | REQUENA                    | LORETO     | 160501 | 2929      | 101101110001 |
| ALTO TAPICHE               | REQUENA                    | LORETO     | 160502 | 2930      | 101101110010 |
| CAPELO                     | REQUENA                    | LORETO     | 160503 | 2931      | 101101110011 |
| EMILIO SAN MARTIN          | REQUENA                    | LORETO     | 160504 | 2932      | 101101110100 |
| MAQUIA                     | REQUENA                    | LORETO     | 160505 | 2933      | 101101110101 |
| PUINAHUA                   | REQUENA                    | LORETO     | 160506 | 2934      | 101101110110 |
| SAQUENA                    | REQUENA                    | LORETO     | 160507 | 2935      | 101101110111 |
| SOPLIN                     | REQUENA                    | LORETO     | 160508 | 2936      | 101101111000 |

| DISTRICT        | PROVINCE              | DEPARTMENT    | UBIGEO | AREA CODE |              |
|-----------------|-----------------------|---------------|--------|-----------|--------------|
|                 |                       |               |        | decimal   | binary       |
| TAPICHE         | REQUENA               | LORETO        | 160509 | 2937      | 101101111001 |
| JENARO HERRERA  | REQUENA               | LORETO        | 160510 | 2938      | 101101111010 |
| YAQUERANA       | REQUENA               | LORETO        | 160511 | 2939      | 101101111011 |
| CONTAMANA       | UCAYALI               | LORETO        | 160601 | 2945      | 101110000001 |
| INAHUAYA        | UCAYALI               | LORETO        | 160602 | 2946      | 101110000010 |
| PADRE MARQUEZ   | UCAYALI               | LORETO        | 160603 | 2947      | 101110000011 |
| PAMPA HERMOSA   | UCAYALI               | LORETO        | 160604 | 2948      | 101110000100 |
| SARAYACU        | UCAYALI               | LORETO        | 160605 | 2949      | 101110000101 |
| VARGAS GUERRA   | UCAYALI               | LORETO        | 160606 | 2950      | 101110000110 |
| BARRANCA        | DATEM DEL MARAÑON     | LORETO        | 160701 | 2961      | 101110010001 |
| CAHUAPANAS      | DATEM DEL MARAÑON     | LORETO        | 160702 | 2962      | 101110010010 |
| MANSERICHE      | DATEM DEL MARAÑON     | LORETO        | 160703 | 2963      | 101110010011 |
| MORONA          | DATEM DEL MARAÑON     | LORETO        | 160704 | 2964      | 101110010100 |
| PASTAZA         | DATEM DEL MARAÑON     | LORETO        | 160705 | 2965      | 101110010101 |
| ANDOAS          | DATEM DEL MARAÑON     | LORETO        | 160706 | 2966      | 101110010110 |
| TAMBOPATA       | TAMBOPATA             | MADRE DE DIOS | 170101 | 2993      | 101110110001 |
| INAMBARI        | TAMBOPATA             | MADRE DE DIOS | 170102 | 2994      | 101110110010 |
| LAS PIEDRAS     | TAMBOPATA             | MADRE DE DIOS | 170103 | 2995      | 101110110011 |
| LABERINTO       | TAMBOPATA             | MADRE DE DIOS | 170104 | 2996      | 101110110100 |
| MANU            | MANU                  | MADRE DE DIOS | 170201 | 3009      | 101111000001 |
| FITZCARRALD     | MANU                  | MADRE DE DIOS | 170202 | 3010      | 101111000010 |
| MADRE DE DIOS   | MANU                  | MADRE DE DIOS | 170203 | 3011      | 101111000011 |
| HUEPETUHE       | MANU                  | MADRE DE DIOS | 170204 | 3012      | 101111000100 |
| IÑAPARI         | TAHUAMANU             | MADRE DE DIOS | 170301 | 3025      | 101111010001 |
| IBERIA          | TAHUAMANU             | MADRE DE DIOS | 170302 | 3026      | 101111010010 |
| TAHUAMANU       | TAHUAMANU             | MADRE DE DIOS | 170303 | 3027      | 101111010011 |
| MOQUEGUA        | MARISCAL NIETO        | MOQUEGUA      | 180101 | 3057      | 101111110001 |
| CARUMAS         | MARISCAL NIETO        | MOQUEGUA      | 180102 | 3058      | 101111110010 |
| CUCHUMBAYA      | MARISCAL NIETO        | MOQUEGUA      | 180103 | 3059      | 101111110011 |
| SAMEGUA         | MARISCAL NIETO        | MOQUEGUA      | 180104 | 3060      | 101111110100 |
| SAN CRISTOBAL   | MARISCAL NIETO        | MOQUEGUA      | 180105 | 3061      | 101111110101 |
| TORATA          | MARISCAL NIETO        | MOQUEGUA      | 180106 | 3062      | 101111110110 |
| OMATE           | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180201 | 3073      | 110000000001 |
| CHOJATA         | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180202 | 3074      | 110000000010 |
| COALAOQUE       | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180203 | 3075      | 110000000011 |
| ICHUÑA          | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180204 | 3076      | 110000000100 |
| LA CAPILLA      | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180205 | 3077      | 110000000101 |
| LLOQUE          | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180206 | 3078      | 110000000110 |
| MATALAQUE       | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180207 | 3079      | 110000000111 |
| PUQUINA         | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180208 | 3080      | 110000001000 |
| QUINISTAQUILLAS | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180209 | 3081      | 110000001001 |
| UBINAS          | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180210 | 3082      | 110000001010 |
| YUNGA           | GENERAL SANCHEZ CERRO | MOQUEGUA      | 180211 | 3083      | 110000001011 |
| ILO             | ILO                   | MOQUEGUA      | 180301 | 3089      | 110000010001 |
| EL ALGARROBAL   | ILO                   | MOQUEGUA      | 180302 | 3090      | 110000010010 |
| PACOCHA         | ILO                   | MOQUEGUA      | 180303 | 3091      | 110000010011 |
| CHAUPIMARCA     | PASCO                 | PASCO         | 190101 | 3121      | 110000110001 |
| HUACHON         | PASCO                 | PASCO         | 190102 | 3122      | 110000110010 |
| HUARIACA        | PASCO                 | PASCO         | 190103 | 3123      | 110000110011 |
| HUAYLLAY        | PASCO                 | PASCO         | 190104 | 3124      | 110000110100 |
| NINACACA        | PASCO                 | PASCO         | 190105 | 3125      | 110000110101 |
| PALLANCHACRA    | PASCO                 | PASCO         | 190106 | 3126      | 110000110110 |

| DISTRICT                            | PROVINCE               | DEPARTMENT | UBIGEO | AREA CODE |              |
|-------------------------------------|------------------------|------------|--------|-----------|--------------|
|                                     |                        |            |        | decimal   | binary       |
| PAUCARTAMBO                         | PASCO                  | PASCO      | 190107 | 3127      | 11000110111  |
| SAN FRANCISCO DE ASIS DE YARUSYACAN | PASCO                  | PASCO      | 190108 | 3128      | 11000111000  |
| SIMON BOLIVAR                       | PASCO                  | PASCO      | 190109 | 3129      | 11000111001  |
| TICLACAYAN                          | PASCO                  | PASCO      | 190110 | 3130      | 11000111010  |
| TINYAHUARCO                         | PASCO                  | PASCO      | 190111 | 3131      | 11000111011  |
| VICCO                               | PASCO                  | PASCO      | 190112 | 3132      | 11000111100  |
| YANACANCHA                          | PASCO                  | PASCO      | 190113 | 3133      | 11000111101  |
| YANAHUANCA                          | DANIEL ALCIDES CARRION | PASCO      | 190201 | 3137      | 110001000001 |
| CHACAYAN                            | DANIEL ALCIDES CARRION | PASCO      | 190202 | 3138      | 110001000010 |
| GOYLLARISQUIZGA                     | DANIEL ALCIDES CARRION | PASCO      | 190203 | 3139      | 110001000011 |
| PAUCAR                              | DANIEL ALCIDES CARRION | PASCO      | 190204 | 3140      | 110001000100 |
| SAN PEDRO DE PILLAO                 | DANIEL ALCIDES CARRION | PASCO      | 190205 | 3141      | 110001000101 |
| SANTA ANA DE TUSI                   | DANIEL ALCIDES CARRION | PASCO      | 190206 | 3142      | 110001000110 |
| TAPUC                               | DANIEL ALCIDES CARRION | PASCO      | 190207 | 3143      | 110001000111 |
| VILCABAMBA                          | DANIEL ALCIDES CARRION | PASCO      | 190208 | 3144      | 110001001000 |
| OXAPAMPA                            | OXAPAMPA               | PASCO      | 190301 | 3153      | 110001010001 |
| CHONTABAMBA                         | OXAPAMPA               | PASCO      | 190302 | 3154      | 110001010010 |
| HUANCABAMBA                         | OXAPAMPA               | PASCO      | 190303 | 3155      | 110001010011 |
| PALCAZU                             | OXAPAMPA               | PASCO      | 190304 | 3156      | 110001010100 |
| POZUZO                              | OXAPAMPA               | PASCO      | 190305 | 3157      | 110001010101 |
| PUERTO BERMUDEZ                     | OXAPAMPA               | PASCO      | 190306 | 3158      | 110001010110 |
| VILLA RICA                          | OXAPAMPA               | PASCO      | 190307 | 3159      | 110001010111 |
| CONSTITUCION                        | OXAPAMPA               | PASCO      | 190308 | 3160      | 110001011000 |
| PIURA                               | PIURA                  | PIURA      | 200101 | 3185      | 110001110001 |
| CASTILLA                            | PIURA                  | PIURA      | 200104 | 3186      | 110001110010 |
| CATACAOS                            | PIURA                  | PIURA      | 200105 | 3187      | 110001110011 |
| CURA MORI                           | PIURA                  | PIURA      | 200107 | 3188      | 110001110100 |
| EL TALLAN                           | PIURA                  | PIURA      | 200108 | 3189      | 110001110101 |
| LA ARENA                            | PIURA                  | PIURA      | 200109 | 3190      | 110001110110 |
| LA UNION                            | PIURA                  | PIURA      | 200110 | 3191      | 110001110111 |
| LAS LOMAS                           | PIURA                  | PIURA      | 200111 | 3192      | 110001111000 |
| TAMBO GRANDE                        | PIURA                  | PIURA      | 200114 | 3193      | 110001111001 |
| AYABACA                             | AYABACA                | PIURA      | 200201 | 3201      | 110010000001 |
| FRIAS                               | AYABACA                | PIURA      | 200202 | 3202      | 110010000010 |
| JILILI                              | AYABACA                | PIURA      | 200203 | 3203      | 110010000011 |
| LAGUNAS                             | AYABACA                | PIURA      | 200204 | 3204      | 110010000100 |
| MONTERO                             | AYABACA                | PIURA      | 200205 | 3205      | 110010000101 |
| PACAIPAMPA                          | AYABACA                | PIURA      | 200206 | 3206      | 110010000110 |
| PAIMAS                              | AYABACA                | PIURA      | 200207 | 3207      | 110010000111 |
| SAPILLICA                           | AYABACA                | PIURA      | 200208 | 3208      | 110010001000 |
| SICCHEZ                             | AYABACA                | PIURA      | 200209 | 3209      | 110010001001 |
| SUYO                                | AYABACA                | PIURA      | 200210 | 3210      | 110010001010 |
| HUANCABAMBA                         | HUANCABAMBA            | PIURA      | 200301 | 3217      | 110010010001 |
| CANCHIQUE                           | HUANCABAMBA            | PIURA      | 200302 | 3218      | 110010010010 |
| EL CARMEN DE LA FRONTERA            | HUANCABAMBA            | PIURA      | 200303 | 3219      | 110010010011 |
| HUARMACA                            | HUANCABAMBA            | PIURA      | 200304 | 3220      | 110010010100 |
| LALAQUIZ                            | HUANCABAMBA            | PIURA      | 200305 | 3221      | 110010010101 |
| SAN MIGUEL DE EL FAIQUE             | HUANCABAMBA            | PIURA      | 200306 | 3222      | 110010010110 |
| SONDOR                              | HUANCABAMBA            | PIURA      | 200307 | 3223      | 110010010111 |
| SONDORILLO                          | HUANCABAMBA            | PIURA      | 200308 | 3224      | 110010011000 |
| CHULUCANAS                          | MORROPON               | PIURA      | 200401 | 3233      | 110010100001 |
| BUENOS AIRES                        | MORROPON               | PIURA      | 200402 | 3234      | 110010100010 |
| CHALACO                             | MORROPON               | PIURA      | 200403 | 3235      | 110010100011 |

| DISTRICT                  | PROVINCE | DEPARTMENT | UBIGEO | AREA CODE |              |
|---------------------------|----------|------------|--------|-----------|--------------|
|                           |          |            |        | decimal   | binary       |
| LA MATANZA                | MORROPON | PIURA      | 200404 | 3236      | 110010100100 |
| MORROPON                  | MORROPON | PIURA      | 200405 | 3237      | 110010100101 |
| SALITRAL                  | MORROPON | PIURA      | 200406 | 3238      | 110010100110 |
| SAN JUAN DE BIGOTE        | MORROPON | PIURA      | 200407 | 3239      | 110010100111 |
| SANTA CATALINA DE MOSSA   | MORROPON | PIURA      | 200408 | 3240      | 110010101000 |
| SANTO DOMINGO             | MORROPON | PIURA      | 200409 | 3241      | 110010101001 |
| YAMANGO                   | MORROPON | PIURA      | 200410 | 3242      | 110010101010 |
| PAITA                     | PAITA    | PIURA      | 200501 | 3249      | 110010110001 |
| AMOTAPE                   | PAITA    | PIURA      | 200502 | 3250      | 110010110010 |
| ARENAL                    | PAITA    | PIURA      | 200503 | 3251      | 110010110011 |
| COLAN                     | PAITA    | PIURA      | 200504 | 3252      | 110010110100 |
| LA HUACA                  | PAITA    | PIURA      | 200505 | 3253      | 110010110101 |
| TAMARINDO                 | PAITA    | PIURA      | 200506 | 3254      | 110010110110 |
| VICHAYAL                  | PAITA    | PIURA      | 200507 | 3255      | 110010110111 |
| SULLANA                   | SULLANA  | PIURA      | 200601 | 3265      | 110011000001 |
| BELLAVISTA                | SULLANA  | PIURA      | 200602 | 3266      | 110011000010 |
| IGNACIO ESCUDERO          | SULLANA  | PIURA      | 200603 | 3267      | 110011000011 |
| LANCONES                  | SULLANA  | PIURA      | 200604 | 3268      | 110011000100 |
| MARCAVELICA               | SULLANA  | PIURA      | 200605 | 3269      | 110011000101 |
| MIGUEL CHECA              | SULLANA  | PIURA      | 200606 | 3270      | 110011000110 |
| QUERECOTILLO              | SULLANA  | PIURA      | 200607 | 3271      | 110011000111 |
| SALITRAL                  | SULLANA  | PIURA      | 200608 | 3272      | 110011001000 |
| PARIÑAS                   | TALARA   | PIURA      | 200701 | 3281      | 110011010001 |
| EL ALTO                   | TALARA   | PIURA      | 200702 | 3282      | 110011010010 |
| LA BREA                   | TALARA   | PIURA      | 200703 | 3283      | 110011010011 |
| LOBITOS                   | TALARA   | PIURA      | 200704 | 3284      | 110011010100 |
| LOS ORGANOS               | TALARA   | PIURA      | 200705 | 3285      | 110011010101 |
| MANCORA                   | TALARA   | PIURA      | 200706 | 3286      | 110011010110 |
| SECHURA                   | SECHURA  | PIURA      | 200801 | 3297      | 110011100001 |
| BELLAVISTA DE LA UNION    | SECHURA  | PIURA      | 200802 | 3298      | 110011100010 |
| BERNAL                    | SECHURA  | PIURA      | 200803 | 3299      | 110011100011 |
| CRISTO NOS VALGA          | SECHURA  | PIURA      | 200804 | 3300      | 110011100100 |
| VICE                      | SECHURA  | PIURA      | 200805 | 3301      | 110011100101 |
| RINCONADA LLICUAR         | SECHURA  | PIURA      | 200806 | 3302      | 110011100110 |
| PUNO                      | PUNO     | PUNO       | 210101 | 3329      | 110100000001 |
| ACORA                     | PUNO     | PUNO       | 210102 | 3330      | 110100000010 |
| AMANTANI                  | PUNO     | PUNO       | 210103 | 3331      | 110100000011 |
| ATUNCOLLA                 | PUNO     | PUNO       | 210104 | 3332      | 110100000100 |
| CAPACHICA                 | PUNO     | PUNO       | 210105 | 3333      | 110100000101 |
| CHUCUITO                  | PUNO     | PUNO       | 210106 | 3334      | 110100000110 |
| COATA                     | PUNO     | PUNO       | 210107 | 3335      | 110100000111 |
| HUATA                     | PUNO     | PUNO       | 210108 | 3336      | 110100001000 |
| MAÑAZO                    | PUNO     | PUNO       | 210109 | 3337      | 110100001001 |
| PAUCARCOLLA               | PUNO     | PUNO       | 210110 | 3338      | 110100001010 |
| PICHACANI                 | PUNO     | PUNO       | 210111 | 3339      | 110100001011 |
| PLATERIA                  | PUNO     | PUNO       | 210112 | 3340      | 110100001100 |
| SAN ANTONIO               | PUNO     | PUNO       | 210113 | 3341      | 110100001101 |
| TIQUILLACA                | PUNO     | PUNO       | 210114 | 3342      | 110100001110 |
| VILQUE                    | PUNO     | PUNO       | 210115 | 3343      | 110100001111 |
| AZANGARO                  | AZANGARO | PUNO       | 210201 | 3361      | 110100100001 |
| ACHAYA                    | AZANGARO | PUNO       | 210202 | 3362      | 110100100010 |
| ARAPA                     | AZANGARO | PUNO       | 210203 | 3363      | 110100100011 |
| ASILLO                    | AZANGARO | PUNO       | 210204 | 3364      | 110100100100 |
| CAMINACA                  | AZANGARO | PUNO       | 210205 | 3365      | 110100100101 |
| CHUPA                     | AZANGARO | PUNO       | 210206 | 3366      | 110100100110 |
| JOSE DOMINGO CHOQUEHUANCA | AZANGARO | PUNO       | 210207 | 3367      | 110100100111 |
| MUÑANI                    | AZANGARO | PUNO       | 210208 | 3368      | 110100101000 |
| POTONI                    | AZANGARO | PUNO       | 210209 | 3369      | 110100101001 |

| DISTRICT            | PROVINCE  | DEPARTMENT | UBIGEO | AREA CODE |              |
|---------------------|-----------|------------|--------|-----------|--------------|
|                     |           |            |        | decimal   | binary       |
| SAMAN               | AZANGARO  | PUNO       | 210210 | 3370      | 110100101010 |
| SAN ANTON           | AZANGARO  | PUNO       | 210211 | 3371      | 110100101011 |
| SAN JOSE            | AZANGARO  | PUNO       | 210212 | 3372      | 110100101100 |
| SAN JUAN DE SALINAS | AZANGARO  | PUNO       | 210213 | 3373      | 110100101101 |
| SANTIAGO DE PUPUJA  | AZANGARO  | PUNO       | 210214 | 3374      | 110100101110 |
| TIRAPATA            | AZANGARO  | PUNO       | 210215 | 3375      | 110100101111 |
| MACUSANI            | CARABAYA  | PUNO       | 210301 | 3393      | 110101000001 |
| AJOYANI             | CARABAYA  | PUNO       | 210302 | 3394      | 110101000010 |
| AYAPATA             | CARABAYA  | PUNO       | 210303 | 3395      | 110101000011 |
| COASA               | CARABAYA  | PUNO       | 210304 | 3396      | 110101000100 |
| CORANI              | CARABAYA  | PUNO       | 210305 | 3397      | 110101000101 |
| CRUCERO             | CARABAYA  | PUNO       | 210306 | 3398      | 110101000110 |
| ITUATA              | CARABAYA  | PUNO       | 210307 | 3399      | 110101000111 |
| OLLACHEA            | CARABAYA  | PUNO       | 210308 | 3400      | 110101001000 |
| SAN GABAN           | CARABAYA  | PUNO       | 210309 | 3401      | 110101001001 |
| USICAYOS            | CARABAYA  | PUNO       | 210310 | 3402      | 110101001010 |
| JULI                | CHUCUITO  | PUNO       | 210401 | 3409      | 110101010001 |
| DESAGUADERO         | CHUCUITO  | PUNO       | 210402 | 3410      | 110101010010 |
| HUACULLANI          | CHUCUITO  | PUNO       | 210403 | 3411      | 110101010011 |
| KELLUYO             | CHUCUITO  | PUNO       | 210404 | 3412      | 110101010100 |
| PISACOMA            | CHUCUITO  | PUNO       | 210405 | 3413      | 110101010101 |
| POMATA              | CHUCUITO  | PUNO       | 210406 | 3414      | 110101010110 |
| ZEPITA              | CHUCUITO  | PUNO       | 210407 | 3415      | 110101010111 |
| ILAVE               | EL COLLAO | PUNO       | 210501 | 3425      | 110101100001 |
| CAPAZO              | EL COLLAO | PUNO       | 210502 | 3426      | 110101100010 |
| PILCUYO             | EL COLLAO | PUNO       | 210503 | 3427      | 110101100011 |
| SANTA ROSA          | EL COLLAO | PUNO       | 210504 | 3428      | 110101100100 |
| CONDURIRI           | EL COLLAO | PUNO       | 210505 | 3429      | 110101100101 |
| HUANCANE            | HUANCANE  | PUNO       | 210601 | 3441      | 110101110001 |
| COJATA              | HUANCANE  | PUNO       | 210602 | 3442      | 110101110010 |
| HUATASANI           | HUANCANE  | PUNO       | 210603 | 3443      | 110101110011 |
| INCHUPALLA          | HUANCANE  | PUNO       | 210604 | 3444      | 110101110100 |
| PUSI                | HUANCANE  | PUNO       | 210605 | 3445      | 110101110101 |
| ROSASPATA           | HUANCANE  | PUNO       | 210606 | 3446      | 110101110110 |
| TARACO              | HUANCANE  | PUNO       | 210607 | 3447      | 110101110111 |
| VILQUE CHICO        | HUANCANE  | PUNO       | 210608 | 3448      | 110101111000 |
| LAMPA               | LAMPA     | PUNO       | 210701 | 3457      | 110110000001 |
| CABANILLA           | LAMPA     | PUNO       | 210702 | 3458      | 110110000010 |
| CALAPUJA            | LAMPA     | PUNO       | 210703 | 3459      | 110110000011 |
| NICASIO             | LAMPA     | PUNO       | 210704 | 3460      | 110110000100 |
| OCUVIRI             | LAMPA     | PUNO       | 210705 | 3461      | 110110000101 |
| PALCA               | LAMPA     | PUNO       | 210706 | 3462      | 110110000110 |
| PARATIA             | LAMPA     | PUNO       | 210707 | 3463      | 110110000111 |
| PUCARA              | LAMPA     | PUNO       | 210708 | 3464      | 110110001000 |
| SANTA LUCIA         | LAMPA     | PUNO       | 210709 | 3465      | 110110001001 |
| VILAVILA            | LAMPA     | PUNO       | 210710 | 3466      | 110110001010 |
| AYAVIRI             | MELGAR    | PUNO       | 210801 | 3473      | 110110010001 |
| ANTAUTA             | MELGAR    | PUNO       | 210802 | 3474      | 110110010010 |
| CUPI                | MELGAR    | PUNO       | 210803 | 3475      | 110110010011 |
| LLALLI              | MELGAR    | PUNO       | 210804 | 3476      | 110110010100 |
| MACARI              | MELGAR    | PUNO       | 210805 | 3477      | 110110010101 |
| NUÑOA               | MELGAR    | PUNO       | 210806 | 3478      | 110110010110 |
| ORURILLO            | MELGAR    | PUNO       | 210807 | 3479      | 110110010111 |
| SANTA ROSA          | MELGAR    | PUNO       | 210808 | 3480      | 110110011000 |
| UMACHIRI            | MELGAR    | PUNO       | 210809 | 3481      | 110110011001 |
| MOHO                | MOHO      | PUNO       | 210901 | 3489      | 110110100001 |
| CONIMA              | MOHO      | PUNO       | 210902 | 3490      | 110110100010 |
| HUAYRAPATA          | MOHO      | PUNO       | 210903 | 3491      | 110110100011 |

| DISTRICT                  | PROVINCE              | DEPARTMENT | UBIGEO | AREA CODE |              |
|---------------------------|-----------------------|------------|--------|-----------|--------------|
|                           |                       |            |        | decimal   | binary       |
| TILALI                    | MOHO                  | PUNO       | 210904 | 3492      | 110110100100 |
| PUTINA                    | SAN ANTONIO DE PUTINA | PUNO       | 211001 | 3505      | 110110110001 |
| ANANEA                    | SAN ANTONIO DE PUTINA | PUNO       | 211002 | 3506      | 110110110010 |
| PEDRO VILCA APAZA         | SAN ANTONIO DE PUTINA | PUNO       | 211003 | 3507      | 110110110011 |
| QUILCAPUNCU               | SAN ANTONIO DE PUTINA | PUNO       | 211004 | 3508      | 110110110100 |
| SINA                      | SAN ANTONIO DE PUTINA | PUNO       | 211005 | 3509      | 110110110101 |
| JULIACA                   | SAN ROMAN             | PUNO       | 211101 | 3521      | 110111000001 |
| CABANA                    | SAN ROMAN             | PUNO       | 211102 | 3522      | 110111000010 |
| CABANILLAS                | SAN ROMAN             | PUNO       | 211103 | 3523      | 110111000011 |
| CARACOTO                  | SAN ROMAN             | PUNO       | 211104 | 3524      | 110111000100 |
| SANDIA                    | SANDIA                | PUNO       | 211201 | 3537      | 110111010001 |
| CUYOCUYO                  | SANDIA                | PUNO       | 211202 | 3538      | 110111010010 |
| LIMBANI                   | SANDIA                | PUNO       | 211203 | 3539      | 110111010011 |
| PATAMBUCO                 | SANDIA                | PUNO       | 211204 | 3540      | 110111010100 |
| PHARA                     | SANDIA                | PUNO       | 211205 | 3541      | 110111010101 |
| QUIACA                    | SANDIA                | PUNO       | 211206 | 3542      | 110111010110 |
| SAN JUAN DEL ORO          | SANDIA                | PUNO       | 211207 | 3543      | 110111010111 |
| YANAHUAYA                 | SANDIA                | PUNO       | 211208 | 3544      | 110111011000 |
| ALTO INAMBARI             | SANDIA                | PUNO       | 211209 | 3545      | 110111011001 |
| SAN PEDRO DE PUTINA PUNCO | SANDIA                | PUNO       | 211210 | 3546      | 110111011010 |
| YUNGUYO                   | YUNGUYO               | PUNO       | 211301 | 3553      | 110111100001 |
| ANAPIA                    | YUNGUYO               | PUNO       | 211302 | 3554      | 110111100010 |
| COPANI                    | YUNGUYO               | PUNO       | 211303 | 3555      | 110111100011 |
| CUTURAPI                  | YUNGUYO               | PUNO       | 211304 | 3556      | 110111100100 |
| OLLARAYA                  | YUNGUYO               | PUNO       | 211305 | 3557      | 110111100101 |
| TINICACHI                 | YUNGUYO               | PUNO       | 211306 | 3558      | 110111100110 |
| UNICACHI                  | YUNGUYO               | PUNO       | 211307 | 3559      | 110111100111 |
| MOYOBAMBA                 | MOYOBAMBA             | SAN MARTIN | 220101 | 3585      | 111000000001 |
| CALZADA                   | MOYOBAMBA             | SAN MARTIN | 220102 | 3586      | 111000000010 |
| HABANA                    | MOYOBAMBA             | SAN MARTIN | 220103 | 3587      | 111000000011 |
| JEPELACION                | MOYOBAMBA             | SAN MARTIN | 220104 | 3588      | 111000000100 |
| SORITOR                   | MOYOBAMBA             | SAN MARTIN | 220105 | 3589      | 111000000101 |
| YANTALO                   | MOYOBAMBA             | SAN MARTIN | 220106 | 3590      | 111000000110 |
| BELLAVISTA                | BELLAVISTA            | SAN MARTIN | 220201 | 3601      | 111000010001 |
| ALTO BIAVO                | BELLAVISTA            | SAN MARTIN | 220202 | 3602      | 111000010010 |
| BAJO BIAVO                | BELLAVISTA            | SAN MARTIN | 220203 | 3603      | 111000010011 |
| HUALLAGA                  | BELLAVISTA            | SAN MARTIN | 220204 | 3604      | 111000010100 |
| SAN PABLO                 | BELLAVISTA            | SAN MARTIN | 220205 | 3605      | 111000010101 |
| SAN RAFAEL                | BELLAVISTA            | SAN MARTIN | 220206 | 3606      | 111000010110 |
| SAN JOSE DE SISA          | EL DORADO             | SAN MARTIN | 220301 | 3617      | 11100100001  |
| AGUA BLANCA               | EL DORADO             | SAN MARTIN | 220302 | 3618      | 11100100010  |
| SAN MARTIN                | EL DORADO             | SAN MARTIN | 220303 | 3619      | 11100100011  |
| SANTA ROSA                | EL DORADO             | SAN MARTIN | 220304 | 3620      | 11100100100  |
| SHATOJA                   | EL DORADO             | SAN MARTIN | 220305 | 3621      | 11100100101  |
| SAPOSOA                   | HUALLAGA              | SAN MARTIN | 220401 | 3633      | 11100110001  |
| ALTO SAPOSOA              | HUALLAGA              | SAN MARTIN | 220402 | 3634      | 11100110010  |
| EL ESLABON                | HUALLAGA              | SAN MARTIN | 220403 | 3635      | 11100110011  |
| PISCOYACU                 | HUALLAGA              | SAN MARTIN | 220404 | 3636      | 11100110100  |
| SACANCHE                  | HUALLAGA              | SAN MARTIN | 220405 | 3637      | 11100110101  |
| TINGO DE SAPOSOA          | HUALLAGA              | SAN MARTIN | 220406 | 3638      | 11100110110  |
| LAMAS                     | LAMAS                 | SAN MARTIN | 220501 | 3649      | 11101000001  |
| ALONSO DE ALVARADO        | LAMAS                 | SAN MARTIN | 220502 | 3650      | 11101000010  |
| BARRANQUITA               | LAMAS                 | SAN MARTIN | 220503 | 3651      | 11101000011  |
| CAYNARACHI                | LAMAS                 | SAN MARTIN | 220504 | 3652      | 11101000100  |
| CUÑUMBUQUI                | LAMAS                 | SAN MARTIN | 220505 | 3653      | 11101000101  |
| PINTO RECODO              | LAMAS                 | SAN MARTIN | 220506 | 3654      | 11101000110  |
| RUMISAPA                  | LAMAS                 | SAN MARTIN | 220507 | 3655      | 11101000111  |
| SAN ROQUE DE CUMBAZA      | LAMAS                 | SAN MARTIN | 220508 | 3656      | 11101001000  |

| DISTRICT                             | PROVINCE         | DEPARTMENT | UBIGEO | AREA CODE |              |
|--------------------------------------|------------------|------------|--------|-----------|--------------|
|                                      |                  |            |        | decimal   | binary       |
| SHANAO                               | LAMAS            | SAN MARTIN | 220509 | 3657      | 111001001001 |
| TABALOSOS                            | LAMAS            | SAN MARTIN | 220510 | 3658      | 111001001010 |
| ZAPATERO                             | LAMAS            | SAN MARTIN | 220511 | 3659      | 111001001011 |
| JUANJUI                              | MARISCAL CACERES | SAN MARTIN | 220601 | 3665      | 111001010001 |
| CAMPANILLA                           | MARISCAL CACERES | SAN MARTIN | 220602 | 3666      | 111001010010 |
| HUICUNGO                             | MARISCAL CACERES | SAN MARTIN | 220603 | 3667      | 111001010011 |
| PACHIZA                              | MARISCAL CACERES | SAN MARTIN | 220604 | 3668      | 111001010100 |
| PAJARILLO                            | MARISCAL CACERES | SAN MARTIN | 220605 | 3669      | 111001010101 |
| PICOTA                               | PICOTA           | SAN MARTIN | 220701 | 3681      | 111001100001 |
| BUENOS AIRES                         | PICOTA           | SAN MARTIN | 220702 | 3682      | 111001100010 |
| CASPISAPA                            | PICOTA           | SAN MARTIN | 220703 | 3683      | 111001100011 |
| PILLUANA                             | PICOTA           | SAN MARTIN | 220704 | 3684      | 111001100100 |
| PUCACACA                             | PICOTA           | SAN MARTIN | 220705 | 3685      | 111001100101 |
| SAN CRISTOBAL                        | PICOTA           | SAN MARTIN | 220706 | 3686      | 111001100110 |
| SAN HILARION                         | PICOTA           | SAN MARTIN | 220707 | 3687      | 111001100111 |
| SHAMBOYACU                           | PICOTA           | SAN MARTIN | 220708 | 3688      | 111001101000 |
| TINGO DE PONASA                      | PICOTA           | SAN MARTIN | 220709 | 3689      | 111001101001 |
| TRES UNIDOS                          | PICOTA           | SAN MARTIN | 220710 | 3690      | 111001101010 |
| RIOJA                                | RIOJA            | SAN MARTIN | 220801 | 3697      | 111001110001 |
| AWAJUN                               | RIOJA            | SAN MARTIN | 220802 | 3698      | 111001110010 |
| ELIAS SOPLIN VARGAS                  | RIOJA            | SAN MARTIN | 220803 | 3699      | 111001110011 |
| NUEVA CAJAMARCA                      | RIOJA            | SAN MARTIN | 220804 | 3700      | 111001110100 |
| PARDO MIGUEL                         | RIOJA            | SAN MARTIN | 220805 | 3701      | 111001110101 |
| POSIC                                | RIOJA            | SAN MARTIN | 220806 | 3702      | 111001110110 |
| SAN FERNANDO                         | RIOJA            | SAN MARTIN | 220807 | 3703      | 111001110111 |
| YORONGOS                             | RIOJA            | SAN MARTIN | 220808 | 3704      | 111001111000 |
| YURACYACU                            | RIOJA            | SAN MARTIN | 220809 | 3705      | 111001111001 |
| TARAPOTO                             | SAN MARTIN       | SAN MARTIN | 220901 | 3713      | 111010000001 |
| ALBERTO LEVEAU                       | SAN MARTIN       | SAN MARTIN | 220902 | 3714      | 111010000010 |
| CACATACHI                            | SAN MARTIN       | SAN MARTIN | 220903 | 3715      | 111010000011 |
| CHAZUTA                              | SAN MARTIN       | SAN MARTIN | 220904 | 3716      | 111010000100 |
| CHIPURANA                            | SAN MARTIN       | SAN MARTIN | 220905 | 3717      | 111010000101 |
| EL PORVENIR                          | SAN MARTIN       | SAN MARTIN | 220906 | 3718      | 111010000110 |
| HUIMBAYOC                            | SAN MARTIN       | SAN MARTIN | 220907 | 3719      | 111010000111 |
| JUAN GUERRA                          | SAN MARTIN       | SAN MARTIN | 220908 | 3720      | 111010001000 |
| LA BANDA DE SHILCAYO                 | SAN MARTIN       | SAN MARTIN | 220909 | 3721      | 111010001001 |
| MORALES                              | SAN MARTIN       | SAN MARTIN | 220910 | 3722      | 111010001010 |
| PAPAPLAYA                            | SAN MARTIN       | SAN MARTIN | 220911 | 3723      | 111010001011 |
| SAN ANTONIO                          | SAN MARTIN       | SAN MARTIN | 220912 | 3724      | 111010001100 |
| SAUCE                                | SAN MARTIN       | SAN MARTIN | 220913 | 3725      | 111010001101 |
| SHAPAJA                              | SAN MARTIN       | SAN MARTIN | 220914 | 3726      | 111010001110 |
| TOCACHE                              | TOCACHE          | SAN MARTIN | 221001 | 3729      | 111010010001 |
| NUEVO PROGRESO                       | TOCACHE          | SAN MARTIN | 221002 | 3730      | 111010010010 |
| POLVORA                              | TOCACHE          | SAN MARTIN | 221003 | 3731      | 111010010011 |
| SHUNTE                               | TOCACHE          | SAN MARTIN | 221004 | 3732      | 111010010100 |
| UCHIZA                               | TOCACHE          | SAN MARTIN | 221005 | 3733      | 111010010101 |
| TACNA                                | TACNA            | TACNA      | 230101 | 3761      | 111010110001 |
| ALTO DE LA ALIANZA                   | TACNA            | TACNA      | 230102 | 3762      | 111010110010 |
| CALANA                               | TACNA            | TACNA      | 230103 | 3763      | 111010110011 |
| CIUDAD NUEVA                         | TACNA            | TACNA      | 230104 | 3764      | 111010110100 |
| INCLAN                               | TACNA            | TACNA      | 230105 | 3765      | 111010110101 |
| PACHIA                               | TACNA            | TACNA      | 230106 | 3766      | 111010110110 |
| PALCA                                | TACNA            | TACNA      | 230107 | 3767      | 111010110111 |
| POCOLLAY                             | TACNA            | TACNA      | 230108 | 3768      | 111010111000 |
| SAMA                                 | TACNA            | TACNA      | 230109 | 3769      | 111010111001 |
| CORONEL GREGORIO ALBARRACIN LANCHIPA | TACNA            | TACNA      | 230110 | 3770      | 111010111010 |
| CANDARAVE                            | CANDARAVE        | TACNA      | 230201 | 3777      | 111011000001 |
| CAIRANI                              | CANDARAVE        | TACNA      | 230202 | 3778      | 111011000010 |

| DISTRICT              | PROVINCE                 | DEPARTMENT | UBIGEO | AREA CODE |              |
|-----------------------|--------------------------|------------|--------|-----------|--------------|
|                       |                          |            |        | decimal   | binary       |
| CAMILACA              | CANDARAVE                | TACNA      | 230203 | 3779      | 111011000011 |
| CURIBAYA              | CANDARAVE                | TACNA      | 230204 | 3780      | 111011000100 |
| HUANUARA              | CANDARAVE                | TACNA      | 230205 | 3781      | 111011000101 |
| QUILAHUANI            | CANDARAVE                | TACNA      | 230206 | 3782      | 111011000110 |
| LOCUMBA               | JORGE BASADRE            | TACNA      | 230301 | 3793      | 111011010001 |
| ILABAYA               | JORGE BASADRE            | TACNA      | 230302 | 3794      | 111011010010 |
| ITE                   | JORGE BASADRE            | TACNA      | 230303 | 3795      | 111011010011 |
| TARATA                | TARATA                   | TACNA      | 230401 | 3809      | 111011100001 |
| HEROES ALBARRACIN     | TARATA                   | TACNA      | 230402 | 3810      | 111011100010 |
| ESTIQUE               | TARATA                   | TACNA      | 230403 | 3811      | 111011100011 |
| ESTIQUE-PAMPA         | TARATA                   | TACNA      | 230404 | 3812      | 111011100100 |
| SITAJARA              | TARATA                   | TACNA      | 230405 | 3813      | 111011100101 |
| SUSAPAYA              | TARATA                   | TACNA      | 230406 | 3814      | 111011100110 |
| TARUCACHI             | TARATA                   | TACNA      | 230407 | 3815      | 111011100111 |
| TICACO                | TARATA                   | TACNA      | 230408 | 3816      | 111011101000 |
| TUMBES                | TUMBES                   | TUMBES     | 240101 | 3841      | 111100000001 |
| CORRALES              | TUMBES                   | TUMBES     | 240102 | 3842      | 111100000010 |
| LA CRUZ               | TUMBES                   | TUMBES     | 240103 | 3843      | 111100000011 |
| PAMPAS DE HOSPITAL    | TUMBES                   | TUMBES     | 240104 | 3844      | 111100000100 |
| SAN JACINTO           | TUMBES                   | TUMBES     | 240105 | 3845      | 111100000101 |
| SAN JUAN DE LA VIRGEN | TUMBES                   | TUMBES     | 240106 | 3846      | 111100000110 |
| ZORRITOS              | CONTRALMIRANTE<br>VILLAR | TUMBES     | 240201 | 3857      | 111100010001 |
| CASITAS               | CONTRALMIRANTE<br>VILLAR | TUMBES     | 240202 | 3858      | 111100010010 |
| CANOAS DE PUNTA SAL   | CONTRALMIRANTE<br>VILLAR | TUMBES     | 240203 | 3859      | 111100010011 |
| ZARUMILLA             | ZARUMILLA                | TUMBES     | 240301 | 3873      | 111100100001 |
| AGUAS VERDES          | ZARUMILLA                | TUMBES     | 240302 | 3874      | 111100100010 |
| MATAPALO              | ZARUMILLA                | TUMBES     | 240303 | 3875      | 111100100011 |
| PAPAYAL               | ZARUMILLA                | TUMBES     | 240304 | 3876      | 111100100100 |
| CALLERIA              | CORONEL PORTILLO         | UCAYALI    | 250101 | 3905      | 111101000001 |
| CAMPOVERDE            | CORONEL PORTILLO         | UCAYALI    | 250102 | 3906      | 111101000010 |
| IPARIA                | CORONEL PORTILLO         | UCAYALI    | 250103 | 3907      | 111101000011 |
| MASISEA               | CORONEL PORTILLO         | UCAYALI    | 250104 | 3908      | 111101000100 |
| YARINACOCHA           | CORONEL PORTILLO         | UCAYALI    | 250105 | 3909      | 111101000101 |
| NUEVA REQUENA         | CORONEL PORTILLO         | UCAYALI    | 250106 | 3910      | 111101000110 |
| MANANTAY              | CORONEL PORTILLO         | UCAYALI    | 250107 | 3911      | 111101000111 |
| RAYMONDI              | ATALAYA                  | UCAYALI    | 250201 | 3921      | 111101010001 |
| SEPAHUA               | ATALAYA                  | UCAYALI    | 250202 | 3922      | 111101010010 |
| TAHUANIA              | ATALAYA                  | UCAYALI    | 250203 | 3923      | 111101010011 |
| YURUA                 | ATALAYA                  | UCAYALI    | 250204 | 3924      | 111101010100 |
| PADRE ABAD            | PADRE ABAD               | UCAYALI    | 250301 | 3937      | 111101100001 |
| IRAZOLA               | PADRE ABAD               | UCAYALI    | 250302 | 3938      | 111101100010 |
| CURIMANA              | PADRE ABAD               | UCAYALI    | 250303 | 3939      | 111101100011 |
| PURUS                 | PURUS                    | UCAYALI    | 250401 | 3953      | 111101110001 |

The file is available in <http://tvdigitalperu.mtc.gob.pe/>

## A.15 Philippines

| WIDE AREA ZONE | REGION     | CITY   | AREA CODE                   | Description                   |
|----------------|------------|--|-----------------------------|-------------------------------|
| b1b10b9        | b8b7b6b5   | b4b3b2b1b0                                       | b1b10b9b8 b7b6b5b4 b3b2b1b0 |                               |
| 0 0 1          | NATIONWIDE | 0 0 0 0  | 0010 0000 0000              | all cities of the Philippines |
| 0 1 0          | LUZON      | 0 0 0 0  | 0100 0000 0000              | all cities of LUZON           |
| 0 1 0          |            | 0 0 0 1 NCR                                      | 0100 0010 0000              | all cities of NCR             |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0001              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0010              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0011              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0100              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0101              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0110              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 0111              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1000              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1001              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1010              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1011              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1100              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1101              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1110              |                               |
| 0 1 0          |            | 0 0 0 1  | 0100 0010 1111              |                               |
| 0 1 0          |            | 1 0 0 0 0  | 0100 0011 0000              |                               |
| 0 1 0          |            | 1 0 0 0 1  | 0100 0011 0001              |                               |
| 0 1 0          |            | 0 0 0 0 0 CAR (Cordillera Administrative Region) | 0100 0100 0000              | all cities of CAR             |
| 0 1 0          |            | 0 0 0 0 1  | 0100 0100 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0  | 0100 0100 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1  | 0100 0100 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0  | 0100 0100 0100              |                               |
| 0 1 0          |            | 0 0 0 1 0  | 0100 0100 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0  | 0100 0100 0110              |                               |
| 0 1 0          |            | 0 0 0 1 1 Mt. Province                           | 0100 0100 0111              |                               |
| 0 1 0          |            | 0 0 0 0 0 REGION 1 (Ilocos Region)               | 0100 0110 0000              | all cities of REGION 1        |
| 0 1 0          |            | 0 0 0 0 1  | 0100 0110 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0  | 0100 0110 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 La Union                               | 0100 0110 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0 Pangasinan                             | 0100 0110 0100              |                               |
| 0 1 0          |            | 0 0 0 0 0 REGION 2 (Cagayan Valley)              | 0100 1000 0000              | all cities of REGION 2        |
| 0 1 0          |            | 0 0 0 0 1  | 0100 1000 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0 Batanes                                | 0100 1000 0010              |                               |
| 0 1 0          |            | 0 0 0 1 0 Cagayan                                | 0100 1000 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 Isabela                                | 0100 1000 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0 Nueva Vizcaya                          | 0100 1000 0100              |                               |
| 0 1 0          |            | 0 0 0 1 1 Quirino                                | 0100 1000 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0 Santiago                               | 0100 1000 0110              |                               |
| 0 1 0          |            | 0 0 0 0 0 REGION 3 (Central Luzon)               | 0100 1010 0000              | all cities of REGION 3        |
| 0 1 0          |            | 0 0 0 0 1 Angeles                                | 0100 1010 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0 Aurora                                 | 0100 1010 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 Bataan                                 | 0100 1010 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0 Bulacan                                | 0100 1010 0100              |                               |
| 0 1 0          |            | 0 0 0 1 0 Nueva Ecija                            | 0100 1010 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0 Olongapo                               | 0100 1010 0110              |                               |
| 0 1 0          |            | 0 0 0 1 1 Pampanga                               | 0100 1010 0111              |                               |
| 0 1 0          |            | 0 0 0 0 0 Tarlac                                 | 0100 1010 1000              |                               |
| 0 1 0          |            | 0 0 0 1 0 Zambales                               | 0100 1010 1001              |                               |
| 0 1 0          |            | 0 0 0 0 0 REGION 4-A (CALABARZON)                | 0100 1100 0000              | all cities of REGION 4-A      |
| 0 1 0          |            | 0 0 0 0 1 Batangas                               | 0100 1100 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0 Cavite                                 | 0100 1100 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 Laguna                                 | 0100 1100 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0 Lucena                                 | 0100 1100 0100              |                               |
| 0 1 0          |            | 0 0 0 1 0 Quezon                                 | 0100 1100 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0 Rizal                                  | 0100 1100 0110              |                               |
| 0 1 0          |            | 0 0 0 0 0 REGION 4-B (MIMAROPA)                  | 0100 1110 0000              | all cities of REGION 4-B      |
| 0 1 0          |            | 0 0 0 0 1 Marinduque                             | 0100 1110 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0 Occidental Mindoro                     | 0100 1110 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 Oriental Mindoro                       | 0100 1110 0011              |                               |
| 0 1 0          |            | 0 0 0 1 0 Palawan                                | 0100 1110 0100              |                               |
| 0 1 0          |            | 0 0 0 1 0 Puerto Princesa                        | 0100 1110 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0 Romblon                                | 0100 1110 0110              |                               |
| 0 1 0          |            | 1 0 0 0 0 REGION 5 (Bicol Region)                | 0101 0000 0000              | all cities of REGION 5        |
| 0 1 0          |            | 0 0 0 0 1 Albay                                  | 0101 0000 0001              |                               |
| 0 1 0          |            | 0 0 0 1 0 Camarines Sur                          | 0101 0000 0010              |                               |
| 0 1 0          |            | 0 0 0 1 1 Camarines Norte                        | 0101 0000 0011              |                               |
| 0 1 0          |            | 0 0 0 0 0 Catanduanes                            | 0101 0000 0100              |                               |
| 0 1 0          |            | 0 0 0 1 0 Masbate                                | 0101 0000 0101              |                               |
| 0 1 0          |            | 0 0 0 1 0 Naga                                   | 0101 0000 0110              |                               |
| 0 1 0          |            | 0 0 0 1 1 Sorsogon                               | 0101 0000 0111              |                               |

## A.16 Sri Lanka

## A.17 Uruguay

## A.18 Venezuela

|              |     |     |    |    |    |       |    |    |    |    |    |
|--------------|-----|-----|----|----|----|-------|----|----|----|----|----|
| b12          | b11 | b10 | b9 | b8 | b7 | b6    | b5 | b4 | b3 | b2 | b1 |
| Municipality |     |     |    |    |    | State |    |    |    |    |    |

### A.18.1 State Codes

| State                  | State Code |                  |
|------------------------|------------|------------------|
|                        | Decimal    | Binary (b5...b1) |
| Distrito Capital       | 1          | 1                |
| Amazonas               | 2          | 10               |
| Anzoátegui             | 3          | 11               |
| Apure                  | 4          | 100              |
| Aragua                 | 5          | 101              |
| Barinas                | 6          | 110              |
| Bolívar                | 7          | 111              |
| Carabobo               | 8          | 1000             |
| Cojedes                | 9          | 1001             |
| Delta Amacuro          | 10         | 1010             |
| Falcón                 | 11         | 1011             |
| Guárico                | 12         | 1100             |
| Lara                   | 13         | 1101             |
| Mérida                 | 14         | 1110             |
| Miranda                | 15         | 1111             |
| Monagas                | 16         | 10000            |
| Nueva Esparta          | 17         | 10001            |
| Portuguesa             | 18         | 10010            |
| Sucre                  | 19         | 10011            |
| Táchira                | 20         | 10100            |
| Trujillo               | 21         | 10101            |
| Yaracuy                | 22         | 10110            |
| Zulia                  | 23         | 10111            |
| Vargas                 | 24         | 11000            |
| Dependencias Federales | 25         | 11001            |
| Reservado              | 26-31      | 11010 - 11111    |

### A.18.2 Municipality Codes

| State            | Municipality          | Municipality code |                       |
|------------------|-----------------------|-------------------|-----------------------|
|                  |                       | Decimal           | Binary<br>(b12... b6) |
| Distrito Capital | Libertador            | 1                 | 0000001               |
| Amazonas         | Autónomo Alto Orinoco | 1                 | 0000010               |

| State            | Municipality                      | Municipality code |                       |
|------------------|-----------------------------------|-------------------|-----------------------|
|                  |                                   | Decimal           | Binary<br>(b12... b6) |
| Autónomo Atabapo | Autónomo Atabapo                  | 2                 | 0000011               |
|                  | Autónomo Atures                   | 3                 | 0000100               |
|                  | Autónomo Autana                   | 4                 | 0000101               |
|                  | Autónomo Maroa                    | 5                 | 0000110               |
|                  | Autónomo Manapiare                | 6                 | 0000111               |
|                  | Autónomo Río Negro                | 7                 | 0001000               |
| Anzoátegui       | Anaco                             | 1                 | 0000001               |
|                  | Aragua                            | 2                 | 0000010               |
|                  | Fernando de Peñalver              | 3                 | 0000011               |
|                  | Francisco del Carmen Carvajal     | 4                 | 0000100               |
|                  | Francisco de Miranda              | 5                 | 0000101               |
|                  | Guanta                            | 6                 | 0000110               |
|                  | Independencia                     | 7                 | 0000111               |
|                  | José Gregorio Monagas             | 8                 | 0001000               |
|                  | Juan Antonio Sotillo              | 9                 | 0001001               |
|                  | Juan Manuel Cajigal               | 10                | 0001010               |
|                  | Libertad                          | 11                | 0001011               |
|                  | Manuel Ezequiel Bruzual           | 12                | 0001100               |
|                  | Pedro María Fréites               | 13                | 0001101               |
|                  | Píritu                            | 14                | 0001110               |
|                  | San José de Guanipa               | 15                | 0001111               |
|                  | San Juan de Capistrano            | 16                | 0010000               |
|                  | Santa Ana                         | 17                | 0010001               |
|                  | Simón Bolívar                     | 18                | 0010010               |
|                  | Simón Rodríguez                   | 19                | 0010011               |
|                  | Sir Artur Mc Gregor               | 20                | 0010100               |
|                  | Turístico Diego Bautista Urbaneja | 21                | 0010101               |
| Apure            | Achaguas                          | 1                 | 0000001               |
|                  | Biruaca                           | 2                 | 0000010               |
|                  | Muñoz                             | 3                 | 0000011               |
|                  | Páez                              | 4                 | 0000100               |
|                  | Pedro Camejo                      | 5                 | 0000101               |
|                  | Rómulo Gallegos                   | 6                 | 0000110               |
|                  | San Fernando                      | 7                 | 0000111               |
|                  | San Camilo                        | 8                 | 0001000               |
| Aragua           | Bolívar                           | 1                 | 0001000               |
|                  | Camatagua                         | 2                 | 0001001               |
|                  | Girardot                          | 3                 | 0001010               |
|                  | José Ángel Lamas                  | 4                 | 0001011               |
|                  | José Félix Ribas                  | 5                 | 0001100               |
|                  | José Rafael Revenga               | 6                 | 0001101               |
|                  | Libertador                        | 7                 | 0001110               |
|                  | Mario Briceño Iragorry            | 8                 | 0001111               |
|                  | San Casimiro                      | 9                 | 0010000               |
|                  | San Sebastián                     | 10                | 0010001               |
|                  | Santiago Mariño                   | 11                | 0010010               |
|                  | Santos Michelena                  | 12                | 0010011               |

| State    | Municipality                | Municipality code |                       |
|----------|-----------------------------|-------------------|-----------------------|
|          |                             | Decimal           | Binary<br>(b12... b6) |
|          | Sucre                       | 13                | 0010100               |
|          | Tovar                       | 14                | 0010101               |
|          | Urdaneta                    | 15                | 0010111               |
|          | Zamora                      | 16                | 0011000               |
|          | Francisco Linares Alcántara | 17                | 0011001               |
|          | Ocumare de la Costa de Oro  | 18                | 0011010               |
| Barinas  | Alberto Arvelo Torrealba    | 1                 | 0000001               |
|          | Antonio José de Sucre       | 2                 | 0000010               |
|          | Arismendi                   | 3                 | 0000011               |
|          | Barinas                     | 4                 | 0000100               |
|          | Bolívar                     | 5                 | 0000101               |
|          | Cruz Paredes                | 6                 | 0000110               |
|          | Ezequiel Zamora             | 7                 | 0000111               |
|          | Obispos                     | 8                 | 0001000               |
|          | Pedraza                     | 9                 | 0001001               |
|          | Rojas                       | 10                | 0001010               |
|          | Sosa                        | 11                | 0001011               |
|          | Andrés Eloy Blanco          | 12                | 0001100               |
|          | Antonio José de Sucre       | 13                | 0010100               |
| Bolívar  | Caroní                      | 1                 | 0000001               |
|          | Cedeño                      | 2                 | 0000010               |
|          | El Callao                   | 3                 | 0000011               |
|          | Gran Sabana                 | 4                 | 0000100               |
|          | Heres                       | 5                 | 0000101               |
|          | Piar                        | 6                 | 0000110               |
|          | Bolivariano Angostura       | 7                 | 0000111               |
|          | Roscio                      | 8                 | 0001000               |
|          | Sifontes                    | 9                 | 0001001               |
|          | Sucre                       | 10                | 0001010               |
|          | Padre Pedro Chien           | 11                | 0001011               |
| Carabobo | Bejuma                      | 1                 | 0000001               |
|          | Carlos Arvelo               | 2                 | 0000010               |
|          | Diego Ibarra                | 3                 | 0000011               |
|          | Guacara                     | 4                 | 0000100               |
|          | Juan José Mora              | 5                 | 0000101               |
|          | Libertador                  | 6                 | 0000110               |
|          | Los Guayos                  | 7                 | 0000111               |
|          | Miranda                     | 8                 | 0001000               |
|          | Montalbán                   | 9                 | 0001001               |
|          | Naguanagua                  | 10                | 0001010               |
|          | Puerto Cabello              | 11                | 0001011               |
|          | San Diego                   | 12                | 0001100               |
|          | San Joaquín                 | 13                | 0001101               |
|          | Valencia                    | 14                | 0001110               |
|          | Miguel Peña                 | 15                | 0010111               |
| Cojedes  | Anzoátegui                  | 1                 | 0000001               |

| State         | Municipality             | Municipality code |                       |
|---------------|--------------------------|-------------------|-----------------------|
|               |                          | Decimal           | Binary<br>(b12... b6) |
| Falcón        | Falcón                   | 2                 | 0000010               |
|               | Girardot                 | 3                 | 0000011               |
|               | Lima Blanco              | 4                 | 0000100               |
|               | Pao de San Juan Bautista | 5                 | 0000101               |
|               | Ricaурte                 | 6                 | 0000110               |
|               | Rómulo Gallegos          | 7                 | 0000111               |
|               | San Carlos               | 8                 | 0001000               |
|               | Tinaco                   | 9                 | 0001001               |
|               | Antonio Díaz             | 1                 | 0000001               |
| Delta Amacuro | Casacoima                | 2                 | 0000010               |
|               | Pedernales               | 3                 | 0000011               |
|               | Tucupita                 | 4                 | 0000100               |
|               | Acosta                   | 1                 | 0000001               |
| Falcón        | Bolívar                  | 2                 | 0000010               |
|               | Buchivacoa               | 3                 | 0000011               |
|               | Cacique Manaure          | 4                 | 0000100               |
|               | Carirubana               | 5                 | 0000101               |
|               | Colina                   | 6                 | 0000110               |
|               | Dabajuro                 | 7                 | 0000111               |
|               | Democracia               | 8                 | 0001000               |
|               | Falcón                   | 9                 | 0001001               |
|               | Federación               | 10                | 0001010               |
|               | Jacura                   | 11                | 0001011               |
|               | Los Taques               | 12                | 0001100               |
|               | Mauroa                   | 13                | 0001101               |
|               | Miranda                  | 14                | 0001110               |
|               | Monseñor Iturriza        | 15                | 0001111               |
|               | Palmasola                | 16                | 0010000               |
|               | Petit                    | 17                | 0010001               |
|               | Píritu                   | 18                | 0010010               |
|               | San Francisco            | 19                | 0010011               |
|               | Silva                    | 20                | 0010100               |
|               | Sucre                    | 21                | 0010101               |
|               | Tocópero                 | 22                | 0010111               |
|               | Unión                    | 23                | 0011000               |
|               | Urumaco                  | 24                | 0011001               |
|               | Zamora                   | 25                | 0011010               |
| Guárico       | Camaguán                 | 1                 | 0000001               |
|               | Chagaramas               | 2                 | 0000010               |
|               | El Socorro               | 3                 | 0000011               |
|               | Francisco de Miranda     | 4                 | 0000100               |
|               | José Félix Ribas         | 5                 | 0000101               |
|               | José Tadeo Monagas       | 6                 | 0000110               |
|               | Juan Germán Roscio       | 7                 | 0000111               |
|               | Julián Mellado           | 8                 | 0001000               |
|               | Las Mercedes             | 9                 | 0001001               |
|               | Leonardo Infante         | 10                | 0001010               |
|               | Pedro Zaraza             | 11                | 0001011               |
|               | Ortiz                    | 12                | 0001100               |
|               | San Gerónimo de Guayabal | 13                | 0001101               |

| State   | Municipality            | Municipality code |                       |
|---------|-------------------------|-------------------|-----------------------|
|         |                         | Decimal           | Binary<br>(b12... b6) |
|         | San José de Guaribe     | 14                | 0001110               |
|         | Santa María de Ipire    | 15                | 0001111               |
| Lara    | Andrés Eloy Blanco      | 1                 | 0000001               |
|         | Crespo                  | 2                 | 0000010               |
|         | Iribarren               | 3                 | 0000011               |
|         | Jiménez                 | 4                 | 0000100               |
|         | Morán                   | 5                 | 0000101               |
|         | Palavecino              | 6                 | 0000110               |
|         | Simon Planas            | 7                 | 0000111               |
|         | Torres                  | 8                 | 0001000               |
|         | Urdaneta                | 9                 | 0001001               |
| Mérida  | Alberto Adriani         | 1                 | 0000001               |
|         | Andrés Bello            | 2                 | 0000010               |
|         | Antonio Pinto Salinas   | 3                 | 0000011               |
|         | Aricagua                | 4                 | 0000100               |
|         | Arzobispo Chacón        | 5                 | 0000101               |
|         | Campo Elías             | 6                 | 0000110               |
|         | Caracciolo Parra Olmedo | 7                 | 0000111               |
|         | Cardenal Quintero       | 8                 | 0001000               |
|         | Guaraque                | 9                 | 0001001               |
|         | Julio César Salas       | 10                | 0001010               |
|         | Justo Briceño           | 11                | 0001011               |
|         | Libertador              | 12                | 0001100               |
|         | Miranda                 | 13                | 0001101               |
|         | Obispo Ramos de Lora    | 14                | 0001110               |
|         | Padre Noguera           | 15                | 0001111               |
|         | Pueblo Llano            | 16                | 0010000               |
|         | Rangel                  | 17                | 0010001               |
|         | Rivas Dávila            | 18                | 0010010               |
|         | Santos Marquina         | 19                | 0010011               |
|         | Sucre                   | 20                | 0010100               |
|         | Tovar                   | 21                | 0010101               |
|         | Tulio Febres Cordero    | 22                | 0010111               |
|         | Zea                     | 23                | 0011000               |
| Miranda | Acevedo                 | 1                 | 0000001               |
|         | Andrés Bello            | 2                 | 0000010               |
|         | Baruta                  | 3                 | 0000011               |
|         | Brión                   | 4                 | 0000100               |
|         | Buroz                   | 5                 | 0000101               |
|         | Carrizal                | 6                 | 0000110               |
|         | Chacao                  | 7                 | 0000111               |
|         | Cristóbal Rojas         | 8                 | 0001000               |
|         | El Hatillo              | 9                 | 0001001               |
|         | Guaicaipuro             | 10                | 0001010               |
|         | Independencia           | 11                | 0001011               |
|         | Lander                  | 12                | 0001100               |
|         | Los Salias              | 13                | 0001101               |
|         | Páez                    | 14                | 0001110               |
|         | Paz Castillo            | 15                | 0001111               |
|         | Pedro Gual              | 16                | 0010000               |

| State         | Municipality                  | Municipality code |                       |
|---------------|-------------------------------|-------------------|-----------------------|
|               |                               | Decimal           | Binary<br>(b12... b6) |
| Monagas       | Plaza                         | 17                | 0010001               |
|               | Simón Bolívar                 | 18                | 0010010               |
|               | Sucre                         | 19                | 0010011               |
|               | Urdaneta                      | 20                | 0010100               |
|               | Zamora                        | 21                | 0010101               |
| Nueva Esparta | Acosta                        | 1                 | 0000001               |
|               | Aguasay                       | 2                 | 0000010               |
|               | Bolívar                       | 3                 | 0000011               |
|               | Caripe                        | 4                 | 0000100               |
|               | Cedeño                        | 5                 | 0000101               |
|               | Ezequiel Zamora               | 6                 | 0000110               |
|               | Libertador                    | 7                 | 0000111               |
|               | Maturín                       | 8                 | 0001000               |
|               | Piar                          | 9                 | 0001001               |
|               | Punceres                      | 10                | 0001010               |
|               | Santa Bárbara                 | 11                | 0001011               |
|               | Sotillo                       | 12                | 0001100               |
|               | Uracoa                        | 13                | 0001101               |
| Portuguesa    | Antolín del Campo             | 1                 | 0000001               |
|               | Arismendi                     | 2                 | 0000010               |
|               | Díaz                          | 3                 | 0000011               |
|               | García                        | 4                 | 0000100               |
|               | Gómez                         | 5                 | 0000101               |
|               | Maneiro                       | 6                 | 0000110               |
|               | Marcano                       | 7                 | 0000111               |
|               | Mariño                        | 8                 | 0001000               |
|               | Península de Macanao          | 9                 | 0001001               |
|               | Tubores                       | 10                | 0001010               |
|               | Villalba                      | 11                | 0001011               |
|               | Agua Blanca                   | 1                 | 0000001               |
|               | Araure                        | 2                 | 0000010               |
|               | Esteller                      | 3                 | 0000011               |
| Sucre         | Guanare                       | 4                 | 0000100               |
|               | Guanarito                     | 5                 | 0000101               |
|               | Monseñor José Vicente de Unda | 6                 | 0000110               |
|               | Ospino                        | 7                 | 0000111               |
|               | Páez                          | 8                 | 0001000               |
|               | Papelón                       | 9                 | 0001001               |
|               | San Genaro de Boconoito       | 10                | 0001010               |
|               | San Rafael de Onoto           | 11                | 0001011               |
|               | Santa Rosalía                 | 12                | 0001100               |
|               | Sucre                         | 13                | 0001101               |
|               | Turén                         | 14                | 0001110               |
|               | Andres Eloy blanco            | 1                 | 0000001               |
|               | Andres Mata                   | 2                 | 0000010               |
|               | Arismendi                     | 3                 | 0000011               |
|               | Benitez                       | 4                 | 0000100               |
|               | Bermúdez                      | 5                 | 0000101               |
|               | Bolívar                       | 6                 | 0000110               |
|               | Cajigal                       | 7                 | 0000111               |

| State    | Municipality                  | Municipality code |                       |
|----------|-------------------------------|-------------------|-----------------------|
|          |                               | Decimal           | Binary<br>(b12... b6) |
| Zulia    | Cruz Salmerón Acosta          | 8                 | 0001000               |
|          | Libertador                    | 9                 | 0001001               |
|          | Mariño                        | 10                | 0001010               |
|          | Mejia                         | 11                | 0001011               |
|          | Montes                        | 12                | 0001100               |
|          | Ribero                        | 13                | 0001101               |
|          | Sucre                         | 14                | 0001110               |
|          | Valdez                        | 15                | 0001111               |
| Táchira  | Andrés Bello                  | 1                 | 0000001               |
|          | Antonio Rómulo Costa          | 2                 | 0000010               |
|          | Ayacucho                      | 3                 | 0000011               |
|          | Bolívar                       | 4                 | 0000100               |
|          | Cárdenas                      | 5                 | 0000101               |
|          | Córdoba                       | 6                 | 0000110               |
|          | fernández Feo                 | 7                 | 0000111               |
|          | Francisco de Miranda          | 8                 | 0001000               |
|          | Gracia de Hevia               | 9                 | 0001001               |
|          | Guásimos                      | 10                | 0001010               |
|          | Independencia                 | 11                | 0001011               |
|          | Jáuregui                      | 12                | 0001100               |
|          | José María vargas             | 13                | 0001101               |
|          | Junin                         | 14                | 0001110               |
|          | Libertad                      | 15                | 0001111               |
|          | Libertador                    | 16                | 0010000               |
|          | Lobatera                      | 17                | 0010001               |
|          | Michelena                     | 18                | 0010010               |
|          | Panamericano                  | 19                | 0010011               |
|          | Pedro María Ureña             | 20                | 0010100               |
|          | Rafael Urdaneta               | 21                | 0010101               |
|          | Samuel Darío Maldonado        | 22                | 0010111               |
|          | San Cristóbal                 | 23                | 0011000               |
|          | Seboruco                      | 24                | 0011001               |
|          | Simón Rodríguez               | 25                | 0011010               |
|          | Sucre                         | 26                | 0011011               |
|          | Tórbes                        | 27                | 0011100               |
|          | Uribante                      | 28                | 0011101               |
|          | San Judas Tadeo               | 29                | 0011110               |
| Trujillo | Andrés Bello                  | 1                 | 0000001               |
|          | Boconó                        | 2                 | 0000010               |
|          | Bolívar                       | 3                 | 0000011               |
|          | Candelaria                    | 4                 | 0000100               |
|          | Carache                       | 5                 | 0000101               |
|          | Escuque                       | 6                 | 0000110               |
|          | José Felipe Márquez Cañizalez | 7                 | 0000111               |
|          | José Vicente Campo Elías      | 8                 | 0001000               |
|          | La Ceiba                      | 9                 | 0001001               |
|          | Miranda                       | 10                | 0001010               |
|          | Monte Carmelo                 | 11                | 0001011               |
|          | Motatán                       | 12                | 0001100               |
|          | Pampán                        | 13                | 0001101               |

| State                  | Municipality                 | Municipality code |                       |
|------------------------|------------------------------|-------------------|-----------------------|
|                        |                              | Decimal           | Binary<br>(b12... b6) |
| Yaracuy                | Pampanito                    | 14                | 0001110               |
|                        | Rafael Rangel                | 15                | 0001111               |
|                        | San Rafael de Carvajal       | 16                | 0010000               |
|                        | Sucre                        | 17                | 0010001               |
|                        | Trujillo                     | 18                | 0010010               |
|                        | Urdaneta                     | 19                | 0010011               |
|                        | Valera                       | 20                | 0010100               |
| Zulia                  | Arístides Bastidas           | 1                 | 0000001               |
|                        | Bolívar                      | 2                 | 0000010               |
|                        | Bruzual                      | 3                 | 0000011               |
|                        | Cocorote                     | 4                 | 0000100               |
|                        | Independencia                | 5                 | 0000101               |
|                        | José Antonio Páez            | 6                 | 0000110               |
|                        | La Trinidad                  | 7                 | 0000111               |
|                        | Manuel Monge                 | 8                 | 0001000               |
|                        | Nirgua                       | 9                 | 0001001               |
|                        | Peña                         | 10                | 0001010               |
|                        | San Felipe                   | 11                | 0001011               |
|                        | Sucre                        | 12                | 0001100               |
|                        | Urachiche                    | 13                | 0001101               |
|                        | Veroes                       | 14                | 0001110               |
| Vargas                 | Almirante Padilla            | 1                 | 0000001               |
|                        | Baralt                       | 2                 | 0000010               |
|                        | Cabima                       | 3                 | 0000011               |
|                        | Catatumbo                    | 4                 | 0000100               |
|                        | Colón                        | 5                 | 0000101               |
|                        | Francisco Javier Pulgar      | 6                 | 0000110               |
|                        | Jesús Enrique Lossada        | 7                 | 0000111               |
|                        | Jesús María Semprún          | 8                 | 0001000               |
|                        | La Cañada de Urdaneta        | 9                 | 0001001               |
|                        | Lagunillas                   | 10                | 0001010               |
|                        | Machiques de Perijá          | 11                | 0001011               |
|                        | Mara                         | 12                | 0001100               |
|                        | Maracaibo                    | 13                | 0001101               |
|                        | Miranda                      | 14                | 0001110               |
|                        | Indígena Bolivariano Guajira | 15                | 0001111               |
|                        | Rosario de Perijá            | 16                | 0010000               |
|                        | San Francisco                | 17                | 0010001               |
|                        | Santa Rita                   | 18                | 0010010               |
|                        | Simón Bolívar                | 19                | 0010011               |
|                        | Sucre                        | 20                | 0010100               |
|                        | Valmore Rodríguez            | 21                | 0010101               |
| Vargas                 | Vargas                       | 1                 | 0000001               |
| Dependencias Federales | Dependencias Federales       | 1                 | 0000001               |

## Annex B

### Operational Guideline of Superimpose for One-seg

EWBS text messages are transmitted using the Superimpose function. This Annex specifies the operational guideline of Superimpose transmission for One-seg broadcasting.

The transmission operation of Superimpose for Full-seg is specified in Japan's operational guideline (ARIB TR-B14 Vol.3\_Section2\_4). However, in "ARIB TR-B14", while "Operation of closed caption coding" for One-seg is specified in Vol. 3\_Section 4\_6, there is no specification of Superimpose for One-seg. Therefore, this Annex B is created specifically for Superimpose for One-seg, based on the specifications of the "Operation of closed caption coding" for One-seg.

#### B1. Operation of Superimpose transmission

##### B1.1 Outline of Superimpose transmission

###### (1) Transmission method

In the same way as closed captions, Superimpose text is transmitted on a PES that is different from the video and audio PESs by using an "independent PES" (stream type = 0x06).

Whereas synchronous PES transmission with PTS is applied for closed captions, asynchronous PES transmission without PTS is applied for Superimpose because the EWBS message is not related to the main TV program.

###### (2) Transmission of multiple languages

The number of ESs for Superimpose that can be transmitted simultaneously is one. The maximum number of languages that can be transmitted in one ES is one (for Latin American countries<sup>a</sup>) or two (for other countries). Languages transmitted are identified by caption management data, and the data group identification of the data group in the ES. However, it is not mandatory for receivers to display Superimpose text in the second language.

###### (3) Usable display mode

The display mode is fixed to the "Automatic display when received" mode. The same can be applied even if two languages are transmitted.

###### (4) Transmission frequency of caption management data

The superimpose data comprise caption management data and caption statement data. The caption management data include required information, for example, the language identification code, to display a Superimpose text message that is included in the caption statement data. Therefore, the Superimpose text message can be displayed after both the caption management data and caption statement data are received. Considering the fact that channels may be switching, the caption management data should be sent periodically. The frequency of caption management data should be:

Transmission frequency: 1 time/10 sec. (permissible deviation:  $\pm 1$  time/5 sec.)

However, the transmission of the caption management data may be interrupted by commercials, etc.

##### B1.2 PES transmission method used in Superimpose

The asynchronous PES transmission method is applied. The main definitions of the Superimpose PES packets for One-seg are as follows:

- Maximum number of ESs transmitted simultaneously: one

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<sup>a</sup> For Venezuela, the maximum number of languages per ES is 2, depending on display message management.

- Maximum number of languages per ES: one (for Latin American countries<sup>b</sup>) or two (for other countries)
- PES configuration unit: one data group
- PES maximum size: 640 bytes (However, 3 TS packets is the upper limit)
- PES packet minimum delivery interval: 1000 ms (However, it is not applied to the PES to clear the screen: C0 Control-Code "CS".)
- Maximum ES rate: 3 Kbit/s
- Reception buffer size: 1280 bytes or more (for both one and two languages)

The parameters of the PES packets for Superimpose are listed in Table B.1.

**Table B.1 — Parameters of PES packets for Superimpose**

| Field                         | Parameter  |
|-------------------------------|--|
| Stream_id                     | 0xBF (private_stream_2)  |
| PES_packet_length             | Number of bytes of PES packets. *1   |
| data_identifier               | 0x81   |
| private_stream_id             | 0xFF   |
| PES_data_packet_header_length | Indicates the field length of PES_data_private_data_byte. Normally 0x00 should be inserted. *2 |
| PES_data_private_data_byte    | This field can be skip-read.   |
| Asynchronized_PES_data_byte   | Stores the data of the Superimpose data group.   |

\*1 Prohibits the operation of "insert 0", which means PES packet length is not defined.

\*2 If PES\_data\_private\_data\_byte is operated, the correct length of PES\_data\_private\_data\_byte should be inserted in the PES\_data\_packet\_header\_length.

The following conditions are required when transmitting PES packets.

- Regarding the transmission interval of PES packets, the interval between the n<sup>th</sup> PES packet and the n+1<sup>th</sup> PES packet in the sequence should be longer than the Td for the n<sup>th</sup> data. Here, Td is the time interval between the completion of data reception and presentation, which is approximately 0.5 seconds.
- At the time of the completion of sending the n<sup>th</sup> PES packet plus Td time, the total information size of the PES packet should not exceed the receiving buffer size (1280 bytes).
- If the size exceeds the receiving buffer size, the receiver operation is left for the product design.

### B1.3 Operation of data group

Data group transmission should be operated as indicated in Table B.2. When group A is received, the receiver determines the number of languages to be one and processes only the 0x01 Superimpose text of group A. When group B is received, the receiver determines the number of languages to be two and, if the user selects the Superimpose text of the first language, the receiver processes only the 0x21 Superimpose text of group B. If the user selects the Superimpose text of the second language, the receiver processes only the 0x22 Superimpose text of group B.

**Table B.2 — Data group parameters**

| Field         | Parameters  |
|---------------|---|
| data_group_id | <ul style="list-style-type: none"> <li>If there is one Superimpose language, the caption management data and the Superimpose text should be operated with 0x00 and 0x01 of group A, respectively. The 0x20, 0x21, and 0x22 Superimpose text of group B are not operated.</li> </ul> |

<sup>b</sup> For Venezuela, the maximum number of languages per ES is 2, depending on display message management.

|                                    |   |
|------------------------------------|---|
|                                    | <ul style="list-style-type: none"> <li>If there are two Superimpose languages, the caption management data should be operated with 0x20 of group B, and the first and second language Superimpose texts should be operated with 0x21 and 0x22 of group B, respectively. The 0x00, 0x01, and 0x02 Superimpose text of group A are not operated.</li> </ul> |
| <u>data_group_version</u>          | Not operated.   |
| <u>data_group_link_number</u>      | 0x00  |
| <u>last_data_group_link_number</u> | 0x00  |
| <u>data_group_size</u>             | Operate as defined. However, one PES packet should not exceed 640 bytes.  |
| <u>data_group_data_byte</u>        | Store the data group data (caption management data and caption statement data).   |
| <u>CRC_16</u>                      | Operate error checking by CRC16. Upon detecting errors, the receiver deletes the aforesaid data group.  |

#### B1.4 Operation of caption management data

Data units should not be allocated in caption management data. Table B.3 lists the parameters for the caption management data used in Superimpose.

**Table B.3 — Caption management data parameters used in Superimpose**

| Field                        | Parameter                                |
|------------------------------|--|
| TMD                          | '00' (free)                              |
| <u>num_languages</u>         | 1 – 2                                    |
| <u>language_tag</u>          | 0 – 1                                    |
| DMF                          | '0011' (Automatic display when received) |
| <u>ISO_639_language_code</u> | Used language code                       |
| Format                       | Not operated; '1111'                     |
| TCS                          | '00' (8-bit character codes)             |
|                              | '01' (UCS character codes such as UTF-8) |
| <u>rollup_mode</u>           | '00' (non-rollup)                        |
| <u>data_unit_loop_length</u> | '0'                                      |
| <u>data_unit</u>             | Do not allocate data units.              |

#### B1.5 Operation of caption statement data

In one piece of caption statement data, multiple data units of the identical or different data unit parameters can be allocated. When multiple data units exist in one unit of caption statement data, they are processed in the order of appearance of the data units.

The parameters for caption statement data are listed in Table B.4.

**Table B.4 — Parameters of caption statement data**

| Field | Parameter     |
|-------|---------------|
| TMD   | '00' (free)   |
| STM   | Not operated. |

|                       |  |
|-----------------------|--|
| data_unit_loop_length | Operate as defined. However, one PES packet should not exceed 640 bytes. |
| data_unit             | Store data unit (main text).   |

## B1.6 Operation of data unit

The parameters of data units are given in Table B.5.

**Table B.5 — Parameters of data units**

| Field               | Parameters   |
|---------------------|--|
| unit_separator      | 0x1F as defined.   |
| data_unit_parameter | 0x20 (text)  |
| data_unit_size      | Operate as defined. However, one PES packet should not exceed 640 bytes. |
| data_unit_data_byte | Store data unit data.  |

## B1.7 Operation of PSI/SI

### (1) Operation of component tags

The component tag value of the Superimpose ES is 0x88.

### (2) Operation of the PMT

The PMT should be updated by adding and deleting ES information when Superimpose is started and terminated, respectively.

### (3) Stream type

The stream\_type of the Superimpose PES is 0x06 (independent PES\_packet).

### (4) Operation of descriptors

Operation of the PMT and EIT Descriptors for Superimpose is indicated in Table B.6.

**Table B.6 — Descriptor operation of the PMT and EIT**

| Descriptor                   | PMT          | EIT          |
|------------------------------|--------------|--------------|
| Stream Identifier Descriptor | Mandatory    | -            |
| Data Component Descriptor    | Mandatory    | -            |
| Target Region Descriptor     | Not operated | -            |
| Data Content Descriptor      | -            | Not operated |

#### (a) Stream Identifier Descriptor

Component tag value of the Superimpose ES is 0x88.

#### (b) Data Component Descriptor

The data\_component\_id of the Data Component Descriptor is 0x0012. Table B.7 lists the parameters of additional identification information (additional\_data\_component\_info) for the Data Component Descriptor.

**Table B.7 — Parameters of additional identification information for the Data Component Descriptor**

| Field | Parameters |
|-------|------------|
| DMF   | '0011'     |

|        |                     |
|--------|---------------------|
| Timing | '00' (Asynchronous) |
|--------|---------------------|

(c) Target Region Descriptor

The Target Region Descriptor is not operated.

(d) Data Content Descriptor

The Data Content Descriptor is not operated, as the EWBS Superimpose message is not related to the Event Information of the main service.

## B2. Display format of Superimpose

"Format" field of caption management data, which indicates superimpose display format of the receivers, is set to "Not operated '1111'" as shown in Table B.3. However, display formats to present Superimpose text message in the receivers should better be considered; the following two kinds of rectangular area would apply;

- i) In case of portrait mode (display device is used vertically)  
four lines with 24 or more middle size (Note-1) characters per line, or four lines with 12 or more normal size (Note-1) characters of medium font per line.
- ii) In case of landscape mode (display device is used horizontally)  
three lines with 32 or more middle size characters per line, or three lines with 16 or more normal size characters of medium font per line.

(Note-1) middle size: The character size of the lateral direction is half of the line direction.

normal size: The character size of the lateral and the line direction is the same.

Only middle size characters should be adopted in Latin American countries and only middle and normal size characters should be adopted in the other countries.

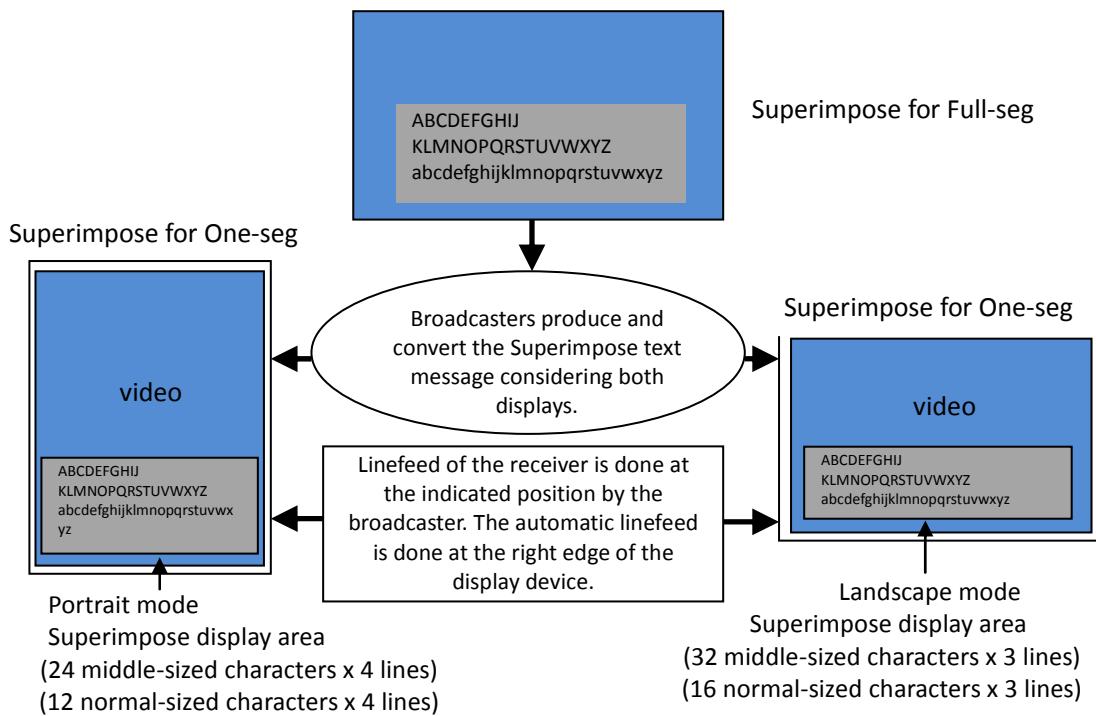
The broadcaster should produce the Superimpose text message to show all text data, regardless of which of the above formats is used.

The receiver should provide either or both of the abovementioned display formats. A line feed should be processed when there is control code of line feed in the Superimpose text, or at the edge of the display area.

Although the display size of the receiver depends on the product design, when the Superimpose text is received according to the abovementioned formats, all of the characters should be displayed.

The location of the Superimpose text message in the display is not designated by broadcasters. It is left for the product design of the receiver.

Fig. B.1 shows an example of the production of Superimpose text for Full-seg and conversion to Superimpose for One-seg.



**Fig B.1 — Example of production of Superimpose text for Full-seg and conversion to Superimpose for One-seg**

### **B3. Characters used in Superimpose**

### B3.1 Character codes

## (1) Character codes for Latin American countries

The character encoding method used in Superimpose for Latin American countries consists of 8-bit character codes. For the 8-bit character codes, the GL code area is fixed to the “alphanumeric” character set, and the GR code area is fixed to the “Latin extension” character set specified by ABNT NBR15606-1. Because the character sets of the GL/GR code areas are fixed, special characters specified by ABNT NBR15606-1 cannot be used. Table B.8 shows the Latin character set.

**Table B.8 — Latin character set (Latin extension)**

|    | 0x  | 1x   | 2x | 3x | 4x | 5x | 6x | 7x  | 8x  | 9x    | Ax   | Bx | Cx | Dx | Ex | Fx    |
|----|-----|------|----|----|----|----|----|-----|-----|-------|------|----|----|----|----|-------|
| x0 | NUL |      | SP | 0  | @  | P  | `  | p   | BKF | COL   | 10/0 | °  | À  | Ð  | à  | õ     |
| x1 |     |      | !  | 1  | A  | Q  | a  | q   | RDF | FLC   | i    | ±  | Á  | Ñ  | á  | ñ     |
| x2 |     |      | "  | 2  | B  | R  | b  | r   | GRF | CDC   | ¢    | ²  | Â  | Ò  | â  | ò     |
| x3 |     |      | #  | 3  | C  | S  | c  | s   | YLF | POL   | £    | ³  | Ã  | Ó  | ã  | ó     |
| x4 |     |      | \$ | 4  | D  | T  | d  | t   | BLF | WMM   | €    | Ž  | Ä  | Ô  | ä  | ô     |
| x5 |     |      | %  | 5  | E  | U  | e  | u   | MGF | MACRO | ¥    | µ  | Å  | Õ  | å  | õ     |
| x6 |     | PAPF | &  | 6  | F  | V  | f  | v   | CNF |       | Š    | ¶  | Æ  | Ö  | æ  | ö     |
| x7 | BEL |      | '  | 7  | G  | W  | g  | w   | WHF | HLC   | §    | ·  | Ç  | ×  | ç  | ÷     |
| x8 | APB | CAN  | (  | 8  | H  | X  | h  | x   | SSZ | RPC   | š    | ž  | È  | Ø  | è  | ø     |
| x9 | APF | SS2  | )  | 9  | I  | Y  | i  | y   | MSZ | SPL   | ©    | ¹  | É  | Ù  | é  | ù     |
| xA | APD |      | *  | :  | J  | Z  | j  | z   | NSZ | STL   | a    | º  | Ê  | Ú  | ê  | ú     |
| xB | APU | ESC  | +  | ;  | K  | [  | k  | {   | SZX | CSI   | «    | »  | Ë  | Û  | ë  | û     |
| xC | CS  | APS  | ,  | <  | L  | \  | l  |     |     |       | ¬    | Œ  | Ì  | Ü  | ì  | ü     |
| xD | APR | SS3  | -  | =  | M  | ]  | m  | }   |     | TIME  | ÿ    | œ  | Í  | Ý  | í  | ý     |
| xE | LS1 | RS   | .  | >  | N  | ^  | n  | ~   |     |       | ®    | ÿ  | †  | Þ  | î  | þ     |
| xF | LSO | US   | /  | ?  | O  |    | o  | DEL |     |       | —    | ¿  | Ï  | ß  | ï  | 15/15 |

The area not used as a character code is used for control codes. Control code areas are from 0x00 to 0x1F and from 0x80 to 0x9F. The 8-bit code structure for the Latin character set is shown in Fig. B.2.

## **Fig B.2 — 8-bit code structure**

## (2) Character codes for other countries

The character encoding method used in Superimpose for the other countries is the UTF-8 character code, which is specified in ISO/IEC 10646:2003. Byte Order Mark is not used. A localized character set is defined by each country.

As for control codes, C0 control codes from 0x00 to 0x1F are transmitted by using the area from (0000 0000)[00] to (0001 1111)[1F], and C1 control codes from 0x80 to 0x9F are transmitted by using the area from (1100 0010)(1000 0000)[C2 80] to (1100 0010)(1001 1111)[C2 9F].

## B3.2 Character fonts

Character fonts are left for the product design of the receiver.

### B3.3 Character size

With Superimpose for Full-seg, five character sizes can be designated: 16 dots, 20 dots, 24 dots, 30 dots, and 36 dots. With Superimpose for One-seg, such designation using the number of dots is not applied; instead, the character size to be displayed in the receiver is assumed to be a medium font size.

### B3.4 Display partition

Display partition is not defined because the letter space and line space are not specified for operation.

#### **B4. Control codes used in Superimpose**

## B4.1 Control codes

The control codes used in the Superimpose are listed in Tables B.9 and B.10. Operation of extension control codes is not allowed.

**Table B.9 — C0 control code and Usability**

| C0 control code | Control function                     | Usability<br>(Note-3) | Remarks |
|-----------------|--------------------------------------|-----------------------|---------|
| NUL             | Space                                | ✓                     |         |
| BEL             | BEL                                  |                       |         |
| APB X           | Active position backward             |                       |         |
| APF X           | Active position forward              |                       |         |
| APD X           | Operation line advance               |                       |         |
| APU             | Operation line retreat               |                       |         |
| APR             | Active position return               | ✓                     |         |
| PAPF            | Specified operation position advance |                       |         |
| APS             | Active position specification        |                       |         |
| CS              | Clear screen                         | ✓                     |         |
| CAN             | Cancel                               |                       |         |
| ESC             | Escape                               |                       |         |
| LS1             | Locking-shift 1                      |                       |         |
| LS0             | Locking-shift 0                      |                       |         |
| SS2             | Single-shift 2                       |                       |         |
| SS3             | Single-shift 3                       |                       |         |
| RS              | Data header identification code      |                       |         |
| US              | Data unit identification code        | ✓                     |         |

(Note-3) ✓: Usable; Blank: Unusable

**Table B.10 — C1 control code and Usability**

| C1 control code | Control function         | Usability<br>(Note-4) | Remarks   |
|-----------------|--------------------------|-----------------------|---|
| BKF (CFLA0)     | Foreground color Black   | ✓                     | Specify Black for foreground (index value =0)   |
| RDF (CFLA1)     | Foreground color Red     | ✓                     | Specify Red for foreground (index value =1)     |
| GRF (CFLA2)     | Foreground color Green   | ✓                     | Specify Green for foreground (index value =2)   |
| YLF (CFLA3)     | Foreground color Yellow  | ✓                     | Specify Yellow for foreground (index value =3)  |
| BLF (CFLA4)     | Foreground color Blue    | ✓                     | Specify Blue for foreground (index value =4)    |
| MGF (CFLA5)     | Foreground color Magenta | ✓                     | Specify Magenta for foreground (index value =5) |
| CNF (CFLA6)     | Foreground color Cyan    | ✓                     | Specify Cyan for foreground (index value        |

|             |                                       |                 |  |
|-------------|---------------------------------------|-----------------|--|
|             |                                       |                 | =6)  |
| WHF (CFLA7) | Foreground color White                | ✓               | Specify White for foreground (index value =7)  |
| COL         | Color specification                   |                 |  |
| POL         | Pattern polarity                      |                 |  |
| SSZ         | Small size                            |                 | Character size   |
| MSZ         | Middle size                           | ✓               | Character size   |
| NSZ         | Normal size                           | ✓ <sup>1)</sup> | Character size<br>1) Only usable for UTF-8 character code.   |
| SZX         | Specification size                    |                 | Character size   |
| FLC         | Flashing control                      | ✓ <sup>2)</sup> | 2) Only usable for “Start normal phase flashing” and “Stop flashing”. “Reverse phase flashing” is prohibited.<br>For operation of flashing, refer to B4.1(2) |
| CDC         | Conceal control                       |                 |  |
| WMM         | Writing mode modification             |                 |  |
| TIME        | Time control                          | ✓ <sup>3)</sup> | 3) Only usable for process waiting.  |
| MACRO       | Macro specification                   |                 |  |
| RPC         | Character repeat                      |                 |  |
| STL         | Start underline and mosaic separation |                 |  |
| SPL         | Stop underline and mosaic separation  |                 |  |
| HLC         | Enclose control                       |                 |  |
| CSI         | Control sequence introducer           |                 |  |

(Note-4) ✓: Usable; ✓<sup>X</sup>: Usable with limitations; Blank: Unusable

#### (1) Operation of color specifications

The color specification is used only for the foreground color and is limited to eight colors from index value 0 to index value 7 allocated in CFLA0 to CFLA7 of the C1 control code in Table B.10.

Specifications for background color, half foreground colors, and background neutral color are not allowed.

It is recommended that the number of color specifications within the same line be a maximum of three for each broadcaster.

#### (2) Operation of flashing

Receivers should flash character strings at a speed enabling the viewer to recognize the flashing. Flashing starts when the character of flashing specification is indicated. Only normal phase flashing is allowed. When the Superimpose initialization operation defined in Section B5 is performed or the clear screen of the display is indicated by the CS control code, the flashing of the aforesaid character strings is terminated.

### B4.2 Extension control codes

Operation of the extension control code is not allowed, as operation of CSI in C1 control codes is prohibited.

## B5. Initialization process of receivers

The receiver should perform the initialization operation described in Section B5.1 to B5.5.

**Table B.11 — Initialization status**

| Item                  | Target           | Initial status  |
|-----------------------|------------------|---|
| Display screen        | Display image    | Character clear status  |
| Operation instruction | Character coding | Time control operation: End status<br>Operation position: Left top corner of display area   |
| Status instruction    | Character coding | Character size: 1/2 X 1 (middle size) (= MSZ)<br>Foreground color: Maximum white brightness (CMLA7)<br>Background color: Transparent (CMLA8)<br>Flashing control: Flashing end (FLC04/15) |

### B5.1 Initialization by switching group of the data group

The receiver should initialize all items prescribed in Table B.11 when it receives caption statement data or caption management data of a different group (A or B) than those of the data group currently being processed for presentation.

### B5.2 Initialization by caption statement data

The receiver should initialize all items prescribed in Table B.11 when it receives caption statement data of the same group and language as those currently being processed for presentation.

### B5.3 Initialization by main text data unit

The receiver should initialize the items in "Status instruction" in Table B.11 when it receives caption statement data of the same group and language as those currently being processed for presentation that contain the main text data unit, right before processing the main text data unit for presentation on the receiver.

### B5.4 Initialization by control codes

The receiver should initialize all items prescribed in Table B.11 right before executing the clear screen (CS) process.

### B5.5 Initialization by receiver operation

The receiver should initialize all items prescribed in Table B.11 when a channel selection or switching of the Superimpose language has been performed.

## B6. Mono-media used in Superimpose

### B6.1 Operation of geometric graphics command

The geometric graphics command is not operated.

### B6.2 Operation of bitmap coding

Bitmap coding is not used.

## B7. Expected operations of the receiver

It is preferable that Superimpose be prioritized higher than closed captioning.

The display of a Superimpose text message should be started immediately after both the caption management data and caption statement data are received. The text message should be kept until

termination of Superimpose is received. The text message should be terminated immediately after the Superimpose termination PES packet, i.e. caption statement data with CS (clear screen) Control-Code, is received.

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