**SUPPLEMENTAL TABLE 1**

**Germany: Disasters Reported in the EM-DAT in the Last 10 Years, Separated by Technological and Natural Causes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Disaster Type** | **Disaster Subtype** | **Location/Areas Affected** | **Casualties (N)** |
| **Technological Causes** | | | | |
| 2016 | Transport accident | Rail | Rosenheim-Holzkirchen | 7 |
| 2014 | Transport accident | Road | Dresden | 11 |
| 2012 | Miscellaneous accident | Fire | Black forest | 14 |
| 2011 | Transport accident | Rail | Near Oschersleben | 10 |
| 2010 | Transport accident | Road | Berlin | 12 |
| 2010 | Miscellaneous accident | Other | Duisburg | 19 |
| 2008 | Transport accident | Road | Hannover | 20 |
| 2008 | Industrial accident | Gas leak | Mönchengladbach | N/A |
| 2008 | Industrial accident | Chemical spill | Bamberg | N/A |
| 2007 | Transport accident | Road | Highway Sachsen-Anhalt | 13 |
| 2006 | Transport accident | Rail | Near Lathen | 23 |
| 2006 | Miscellaneous accident | Collapse | Bad Reichenhall | 15 |
| **Natural Causes** | | | | |
| 2016 | Flood | N/A | Simbach am Inn, Triften, Tann, Regen | 12 |
| 2014 | Storm | Convective storm | Nordrhein-Westfalen | 2 |
| 2014 | Storm | Convective storm | Köln, Düsseldorf, Krefeld, Essen | 6 |
| 2013 | Storm | Convective storm | Niedersachsen, Baden-Württemberg | N/A |
| 2013 | Storm | Extra-tropical-storm | Hamburg, Schleswig-Holstein, Niedersachsen, Bremen | N/A |
| 2013 | Storm | Extra-tropical-storm | Niedersachsen  Schleswig Holstein | 7 |
| 2013 | Flood | Riverine flood | Gera, Greiz, Saale-Holzland, Altenburg, Magdeburg, Würzburg, Regensburg, Passau, Rosenheim, Grimma, Brandenburg, Baden-Württemberg | 4 |
| 2012 | Extreme temperature | Cold wave | Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Hamburg, Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Saarland, Sachsen, Sachsen-Anhalt, Schleswig-Holstein, Thüringen | 2 |
| 2012 | Extreme temperature | Cold wave | Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Hamburg, Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Saarland, Sachsen, Sachsen-Anhalt, Schleswig-Holstein, Thüringen | 4 |
| 2011 | Flood | Riverine flood | Pforzheim, Wertheim, Waiblingen, Würzburg, Passau, Koblenz, Trier, Cochem, Essen, Bochum, Sachsen-Anhalt, Brandenburg, Thüringen | 4 |
| 2010 | Storm | Convective storm | Berlin, Hamburg, Düsseldorf, Gelsenkirchen, Frankfurt/M | N/A |
| 2010 | Extreme temperature | Cold wave | Querfurt, Frankfurt/M | 1 |
| 2010 | Flood | Flash flood | Chemnitz, Neunkirchen (Saar) | 3 |
| 2010 | Storm | Extra-tropical-storm | Baden-Württemberg, Nordrhein-Westfalen, Hessen, Saarland | 4 |
| 2009 | Extreme temperature | Cold wave | Bayern, Berlin, Hamburg, Leipzig, Hannover, Grünow (Brandenburg) | 14 |
| 2009 | Storm | Convective storm | Baden-Württemberg, Bayern, Berlin, Brandenburg, Mecklenburg-Vorpommern, Sachsen-Anhalt, Thüringen | 1 |
| 2009 | Flood | Riverine flood | Oberbayern district | N/A |
| 2008 | Storm | Convective storm | Baden-Württemberg, Nordrhein-Westfalen, Hessen, Rheinland-Pfalz, Sachsen | 3 |
| 2008 | Extreme temperature | Cold wave | Berlin, Brandenburg, Bremen, Hessen, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Sachsen, Sachsen-Anhalt, Thüringen | 1 |
| 2008 | Storm | Extra-tropical-storm | Bayern | 5 |
| 2007 | Flood | Riverine flood | Rheinland-Pfalz | 1 |
| 2007 | Storm | Convective storm | Berlin, Seesen, Lübeck, Brügge (Holstein), Werder (Brandenburg) | 7 |
| 2007 | Storm | Extra-tropical-storm | Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen,  Hamburg,  Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Saarland, Sachsen, Sachsen-Anhalt,  Schleswig-Holstein,  Thüringen | 11 |
| 2006 | Extreme temperature | Heat wave | Dresden, Brombachsee (Bayern) | 2 |
| 2006 | Storm | N/A | Berlin | N/A |
| 2006 | Storm | Convective storm | Baden-Württemberg | 1 |
| 2006 | Flood | Riverine flood | Sachsen, Sachsen-Anhalt, Brandenburg | N/A |
| 2006 | Storm | - | Bayern, Baden-Württemberg, Hessen | 10 |
| 2006 | Extreme temperature | Severe winter conditions | Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Hamburg, Hessen, Mecklenburg-Vorpommern, Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Saarland, Sachsen, Sachsen-Anhalt, Schleswig-Holstein, Thüringen | 10 |

**SUPPLEMENTAL TABLE 2**

**France: Disasters Reported in the EM-DAT in the Last 10 Years, Separated by Technological and Natural Causes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Disaster Type** | **Disaster Subtype** | **Location/Areas Affected** | **Casualties (N)** |
| **Technological Causes** | | | | |
| 2016 | Miscellaneous accident | Fire | Rouen | 13 |
| 2016 | Transport accident | Road | Moulins town (Allier district, Auvergne province) | 12 |
| 2015 | Transport accident | Rail | Eckwersheim | 11 |
| 2015 | Transport accident | Road | Pusseguin | 43 |
| 2013 | Transport accident | Rail | Brétigny-sur-Orge | 6 |
| 2007 | Transport accident | Road | Vizzille (Isère) | 26 |
| 2006 | Transport accident | Rail | Zoufftgen (Mosselle region) | 13 |
| **Natural Causes** | | | | |
| 2016 | Flood | N/A | Yvelines, Paris districts (Ile-de-France province), Marne district (Champagne-Ardenne), Manche, Calvados districts (Basse-Normandie province), Orne, Eure, Seine-  Maritime (Haute-Normandie province) | 5 |
| 2015 | Flood | Flash flood | Cote d'Azur region (Alpes-Maritimes, Var districts,  Provence-Alpes-Côte-d'Azur province) | 20 |
| 2015 | Storm | Convective storm | Aube, Ardennes districts (Champagne-Ardenne  province), Ain district (Rhône-Alpes province) | 3 |
| 2015 | Extreme temperature | Heat wave | Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'Azur, Rhône-Alpes,  Midi-Pyrénées provinces | 3275 |
| 2014 | Flood | Flash flood | Argelès city (Pyrénées-Orientales district, Languedoc-  Rousillon province); Pyrénées-Orientales, Aude, Gar  districts (Languedoc-Rousillon province), Var district  (Provence-Alpes-Côte-d'Azur province) | 5 |
| 2014 | Flood | Riverine flood | Gard, Lozere, Herault districts (Languedoc-Rousillon  province) | 5 |
| 2014 | Storm | Convective storm | Lamalou-les-Bains city (Herault district, Languedoc-  Rousillon province); Aveyron district (Midi-Pyrénées  province), Gard district (Languedoc-Rousillon province)  Ardèche district (Rhône-Alpes province) | 6 |
| 2014 | Storm | Convective storm | Bordeaux city (Gironde district, Aquitaine province),  Cognac city (Charente district, Poitou-Charentes  province); Languedoc region (Languedoc-Rousillon  province) | N/A |
| 2014 | Storm | Extra-tropical-storm | Bretagne | N/A |
| 2014 | Flood | Riverine flood | Hyeres, Lavandou city (Var district, Provence-Alpes-  Côte-d'Azur province); Côte d'Azur region (Alpes  Maritimes district, Provence-Alpes-Cote-d'Azur province) | 4 |
| 2014 | Storm | Convective storm | Biarritz city (Pyrénées-Atlantique district, Aquitaine  province) | 2 |
| 2013 | Storm | Extra-tropical-storm | Alpes-Maritimes district (Provence-Alpes-Cote-d'Azur  province); Valée du Rhône (Rhône-Alpes province);  Auvergne, Alsace, Bretagne, Normandie provinces | 1 |
| 2013 | Storm | Extra-tropical-storm | Basse-Normandie, Haute-Normandie, Nord-Pas-de-  Calais, Bretagne provinces | 1 |
| 2013 | Flood | Flash flood | Luz-Saint-Sauveur city (Hautes Pyrénées district), Saint-  Béat city, (Haute-Garonne district) (Midi-Pyrenees  province); Garonne, Pique rivers (Haute-Garonne  district, Midi-Pyrenees province); Pyrenees-Atlantiques  district (Aquitaine province) | 2 |
| 2012 | Extreme temperature | Cold wave | Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'Azur, Rhône-Alpes,  Midi-Pyrénées provinces | 12 |
| 2011 | Storm | Extra-tropical-storm | Bretagne | N/A |
| 2011 | Flood | Riverine flood | Var, Alpes Maritimes districts (Provence-Alpes-Côte d'Azur  province) | 6 |
| 2010 | Storm | Convective storm | Oise, Aisne districts (Picardie province), Ardennes,  Aube, Marne districts (Champagne-Ardenne province),  Loire district (Centre province), Yonne district  (Bourgogne province) (North departments), Aveyron, Lot,  Tarn districts (Midi-Pyrenees province), Corrèze, Creuse  districts (Limousin province), Pyrénées-Orientales  (Languedoc-Rousillon province) | N/A |
| 2010 | Extreme temperature | Cold wave | Bretagne, Auvergne, Rhônes-Alpes provinces | 3 |
| 2010 | Flood | Flash flood | Draguignan, Les Arcs, Figanières, Roquebrune sur  Argens, Luo, Muy, Trans cities (Var distric, Provence-  Alpes-Côte-d'Azur province) | 25 |
| 2010 | Storm | Extra-tropical-storm | Charente-Maritime, Vienne, Deux-Sèvres districts  (Poitou-Charentes province), Vendée district (Pays-de-la-  Loire province) | 53 |
| 2009 | Extreme temperature | Cold wave | Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Midi-  Pyrénées, Nord-Pas-de-Calais, Pays-de-la-Loire,  Picardie, Poitou-Charentes, Provence-Alpes-Côte d'Azur,  Rhone-Alpes provinces | 2 |
| 2009 | Wildfire | Forest fire | Corse province, Marseille city (Bouches-du-Rhône  district, Provence-Alpes-Côte-d'Azur province) | N/A |
| 2009 | Extreme temperature | Severe winter conditions | Lyon city (Rhone district, Rhône-Alpes province) | 3 |
| 2009 | Storm | Extra-tropical-storm | Landes, Pyrénées-Atlantiques, Lot-et-Garonne district  (Aquitaine province), Hautes-Pyrénnées, Gers, Haute-  Garonne (Midi-Pyrenées province), Aude, Pyrénnées  Orientales (Languedoc-Rousillon province) | 11 |
| 2008 | Extreme temperature | Cold wave | Ile-de-France, Nord-Pas-de-Calais, Provence-Alpes-  Côte-d'Azur provinces | 2 |
| 2008 | Storm | Convective storm | Hautmont city (Nord district, Nord-Pas-de-Calais  province) | 3 |
| 2008 | Storm | Convective storm | Avignon, Thor cities (Vaucluse distric, Provence-Alpes-  Côte-d'Azur province), Saint-Martin de Vers, Saint-  Sauveur-la-valléen cities (Lot), Roquefort (Aveyron); Ain  district (Rhône-Alpes province); Bourgogne province | N/A |
| 2008 | Storm | Convective storm | Basse-Normandie, Haute-Normandie, Picardie, Nord-  Pas-de-Calais provinces (Northern) | 2 |
| 2007 | Storm | N/A | Pau city (Ossau valley, Pyrenees-Atlantique district,  Aquitaine province) | 1 |
| 2007 | Storm | Convective storm | Poitou-Charentes, Aquitaine, Midi-Pyrénées, Languedoc-  Rousillon, Limousin provinces (South-West) | 1 |
| 2007 | Storm | Extra-tropical-storm | Alsace, Basse-Normandie, Bourgogne, Bretagne,  Centre, Champagne-Ardenne, Franche-Comté, Haute-  Normandie, Ile-de-France, Lorraine, Nord-Pas-de-Calais,  Pays-de-la-Loire, Picardie provinces | 3 |
| 2006 | Storm | Convective storm | Vendée district (Pays de Loire province), Doubs, Jura  (Franche-Comté province) ; Bretagne, Pays de Loire,  Auvergne provinces | 1 |
| 2006 | Extreme temperature | Heat wave | Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'Azur, Rhône-Alpes,  Midi-Pyrénées provinces | 1388 |
| 2006 | Storm | N/A | Provence-Alpes-Côte-d'Azur, Franche-Comté, Rhône-  Alpes, Lorraine, Alsace provinces | 4 |

**SUPPLEMENTAL TABLE 3**

**Germany: Ten Major Disasters Reported in the EM-DAT Between 1900 and 2016**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Disaster Group** | **Disaster Type** | **Description and Geographic Location** | **Casualties (N)** |
| 2003 | Natural | Extreme temperature | Heat wave (Baden-Württemberg, Bayern, Berlin, Brandenburg, Bremen, Hamburg, Hessen, Mecklenburg-Vorpommern,  Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz,  Saarland, Sachsen, Sachsen-Anhalt, Schleswig-  Holstein, Thüringen provinces) | 9355 |
| 1921 | Technological | Industrial accident | Explosion of the Oppau ammonium plant | 600 |
| 1946 | Technological | Industrial accident | Explosion in the Monopol Grimberg coal mine | 439 |
| 1908 | Technological | Industrial accident | Explosion in the Radbod coal mine | 360 |
| 1962 | Natural | Storm | Convective storm, North Sea flood (Hamburg, North Sea) | 347 |
| 1948 | Technological | Industrial accident | Tank wagon explosion Ludwigshafen | 200 |
| 1972 | Technological | Transport accident | Airplane crash Königs Wusterhausen | 156 |
| 1950 | Technological | Transport accident | Train accident Zwickau – Aue | 150 |
| 1998 | Technological | Transport accident | Train accident Eschede | 102 |
| 1945 | Technological | Transport accident | Train accident Aßling | 102 |

**SUPPLEMENTAL TABLE 4**

**France: Ten Major Disasters Overall Reported in the EM-DAT Between 1900 and 2016**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Disaster Group** | **Disaster Type** | **Description** | **Casualties (N)** |
| 2003 | Natural | Extreme temperature | Heat wave (Alsace, Aquitaine, Auvergne, Basse-Normandie, Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'Azur, Rhône-Alpes,  Midi-Pyrénées provinces) | 19 490 |
| 2015 | Natural | Extreme temperature | Heat wave (Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Comté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'Azur, Rhône-Alpes,  Midi-Pyrénées provinces) | 3275 |
| 2006 | Natural | Extreme temperature | Heat wave (Alsace, Aquitaine, Auvergne, Basse-Normandie,  Bourgogne, Bretagne, Centre, Champagne-Ardenne,  Corse, Franche-Compté, Haute-Normandie, Ile-de-  France, Languedoc-Rousillon, Limousin, Lorraine, Nord-  Pas-de-Calais, Pays-de-la-Loire, Picardie, Poitou-  Charentes, Provence-Alpes-Côte-D'azur, Rhône-Alpes,  Midi-Pyrénées provinces) | 1388 |
| 1906 | Technological | Industrial accident | Coal mine explosion Courrières | 1099 |
| 1917 | Technological | Transport accident | Rail accident Modane | 543 |
| 1931 | Technological | Transport accident | Water transport accident Saint-Nazaire | 500 |
| 1959 | Technological | Miscellaneous accident | Dam collapse Malpasset (Fréjus) | 412 |
| 1974 | Technological | Transport accident | Airplane crash Ermenonville (Oise) | 346 |
| 1933 | Technological | Transport accident | Rail accident Lagny-Pomponne | 230 |
| 1981 | Technological | Transport accident | Airplane crash Ajaccio | 180 |