

4.19 Portable Sanitation Units

Revision: ~~June 5, 2000~~December 10, 2014

4.19.1 Description

Portable sanitation units are prefabricated, portable, self-contained toilets that may be housed in trailers or as stand-alone units used for special or temporary events, construction sites, parks, and other events or locations with restroom needs such as fairs, races, or construction projects.

4.19.2 Approval Conditions

1. Permanent sewage disposal facilities are not available, ~~and their installation is impractical.~~
2. All units must be serviced by a pumper with equipment that is permitted through a health district under IDAPA 58.01.15.
3. Units must be manufactured to meet the most current version of ANSI standard Z4.3.
4. Chemicals and biologicals, if used in the waste container, must be compatible with the final disposal site. Chemicals considered hazardous wastes must not be used.
5. Toilets shall contain an adequate supply of toilet paper and hand sanitizer (potable water hand washing stations may be supplied instead of hand sanitizer).
6. ~~The event served is temporary (i.e., 1 year or less).~~
7. ~~The event is one in which the Occupational Safety and Health Administration requires portable sanitation units.~~
4. ~~Units can be made freely available to users.~~

4.19.3 Units Required

1. Table 4-11 and Table 4-12 provides work site requirements.
2. Campouts and overnight event requirements are at least 1 unit for every 50 participants.
3. Table 4-132 provides special event requirements.
4. ~~Urinals may be substituted for one third of the total units specified if facilities will not serve women.~~
5. The following should be taken into consideration when selecting the number of units for an event:
 - a. If the units are serving an event with food and beverage service 10-20% more units should be added to the recommended totals in Table 4-12.
 - b. Traffic flow.
 - c. Outside temperature (i.e., warmer days attendees will take in more liquids).
 - d. Special needs (e.g., changing tables, children use, handicapped accessibility).

d.e. Urinals may be substituted for one-third of the total units specified if facilities will not serve women.

Table 4-11. Portable units required per number of workers if the units are serviced once per week.

Total Number of <u>Workers</u>Employees	Minimum Number of Units (8-hour days/40-hour week)
<u>1-105</u>	1
<u>116-2030</u>	2
<u>321-3051</u>	3
<u>3152-4072</u>	4
<u>73-93</u>	5
Over <u>9340</u>	1 additional unit for each <u>10</u> additional <u>20</u> worker <u>employees.</u>

Table 4-12. Portable units required per number of workers if the units are serviced more than once per week.

Total Number of Employees	Minimum Number of Units (8-hour days/40-hour week)
<u>1-15</u>	<u>1</u>
<u>16-35</u>	<u>2</u>
<u>36-55</u>	<u>3</u>
<u>56-75</u>	<u>4</u>
<u>76-95</u>	<u>5</u>
Over <u>95</u>	<u>1 additional unit for each 20 additional employees.</u>

Table 4-13. Portable unit requirements for number of people per event hours based on a 50/50 mix of men and women.

Number of People	Number of Hours for the Event									
	1	2	3	4	5	6	7	8	9	10
0-500	<u>42</u>	4	4	<u>65</u>	6	<u>67</u>	<u>89</u>	<u>89</u>	<u>810</u>	<u>812</u>
501-1,000	4	6	<u>68</u>	<u>68</u>	<u>69</u>	<u>89</u>	<u>811</u>	<u>812</u>	<u>813</u>	<u>1213</u>
1,001-2,000	<u>85</u>	<u>86</u>	<u>89</u>	<u>812</u>	<u>814</u>	<u>1216</u>	<u>1218</u>	<u>1220</u>	<u>1223</u>	<u>1625</u>
2,001-3,000	<u>86</u>	<u>89</u>	<u>1012</u>	<u>1016</u>	<u>1020</u>	<u>1224</u>	<u>1626</u>	<u>1630</u>	<u>2034</u>	<u>2038</u>
3,001-4,000	8	<u>813</u>	<u>1216</u>	<u>1222</u>	<u>1625</u>	<u>1630</u>	<u>2035</u>	<u>2440</u>	<u>2445</u>	<u>2850</u>
4,001-5,000	12	<u>1215</u>	<u>1220</u>	<u>1625</u>	<u>2031</u>	<u>3038</u>	<u>3044</u>	<u>3050</u>	<u>3056</u>	<u>3463</u>
<u>5,001-6,000</u>	12	12	16	16	20	30	30	36	36	40
<u>6,001-7,000</u>	12	12	16	20	30	32	40	40	48	52
<u>7,001-8,000</u>	12	12	20	24	32	32	40	44	52	54
<u>8,001-9,000</u>	16	16	24	28	40	40	52	52	60	64
<u>9,001-10,000</u>	<u>1615</u>	<u>1625</u>	<u>2838</u>	<u>4050</u>	<u>4063</u>	<u>5275</u>	<u>5288</u>	<u>60100</u>	<u>60113</u>	<u>72125</u>
<u>10,000-15,000</u>	<u>20</u>	<u>38</u>	<u>56</u>	<u>75</u>	<u>94</u>	<u>113</u>	<u>131</u>	<u>150</u>	<u>169</u>	<u>188</u>
<u>15,000-20,000</u>	<u>25</u>	<u>50</u>	<u>75</u>	<u>100</u>	<u>125</u>	<u>150</u>	<u>175</u>	<u>200</u>	<u>225</u>	<u>250</u>
<u>20,000-25,000</u>	<u>38</u>	<u>69</u>	<u>99</u>	<u>130</u>	<u>160</u>	<u>191</u>	<u>221</u>	<u>252</u>	<u>282</u>	<u>313</u>
<u>25,000-30,000</u>	<u>46</u>	<u>82</u>	<u>119</u>	<u>156</u>	<u>192</u>	<u>229</u>	<u>266</u>	<u>302</u>	<u>339</u>	<u>376</u>
<u>30,000-35,000</u>	<u>53</u>	<u>96</u>	<u>139</u>	<u>181</u>	<u>224</u>	<u>267</u>	<u>310</u>	<u>352</u>	<u>395</u>	<u>438</u>
<u>35,000-40,000</u>	<u>61</u>	<u>109</u>	<u>158</u>	<u>207</u>	<u>256</u>	<u>305</u>	<u>354</u>	<u>403</u>	<u>452</u>	<u>501</u>
<u>40,000-45,000</u>	<u>68</u>	<u>123</u>	<u>178</u>	<u>233</u>	<u>288</u>	<u>343</u>	<u>398</u>	<u>453</u>	<u>508</u>	<u>563</u>
<u>45,000-50,000</u>	<u>76</u>	<u>137</u>	<u>198</u>	<u>259</u>	<u>320</u>	<u>381</u>	<u>442</u>	<u>503</u>	<u>564</u>	<u>626</u>

4.19.4 General Requirements

- ~~1. Portable sanitation unit buildings may be mobile trailers or prefabricated skid-mounted, or otherwise portable structures. If a unit they contains more than one stool, each stool should occupy a separate compartment with a door and walls or partitions between stools sufficient to ensure privacy. Urinals need not occupy separate compartments.~~
- ~~2. Where it is impractical to locate a portable sanitation unit building, such as in mines or high-rise structures, units may be located without buildings so long as privacy while using the facilities is ensured.~~

- ~~2. Interior floors, walls, ceilings, partitions, and doors of all sanitation unit buildings should have a finish that can be easily cleaned.~~
- ~~3. Every portable sanitation unit room must provide adequate space for the user with minimum inside dimensions of 3 feet front to back and side to side, inside clear height of 6 feet 6 inches, and a stool riser height of 14–20 inches.~~
- ~~3. The door of a building or partitioned area in a building housing a stool should be provided with an inside latch. Any door leading to the outside shall be self-closing.~~
- ~~4. Waste containers must be fabricated from nonabsorbent, watertight materials.~~
- ~~5. The waste container must be vented to the outside of the building with a minimum nominal vent area of 7 square inches.~~
- ~~6. Buildings that are not provided with mechanical ventilation must be provided with a screened ventilation area having a cross-sectional area of at least 1 ft² per stool.~~
- ~~5. Portable chemical and biological toilets and urinals that are free-standing and not installed in a building do not require a ventilation system.~~
- ~~6. Chemicals and biologicals, if used in the waste container, must be compatible with the final disposal site. Chemicals considered hazardous wastes must not be used.~~

4.19.45 Service Requirements

1. Work site units should be serviced weekly.
2. Special events with more than 500 people in attendance should have a service attendant on site during the event.
3. The employer, event promoter, or manager must be responsible for the hygiene and use of each portable sanitation unit.
4. Units should be serviced and removed from ~~thea~~ site as soon as possible, ~~but no longer than 7 days~~, after the completion of ~~thean~~ event.
5. All equipment used to pump or transport sewage from a portable sanitation unit must be permitted by an Idaho health district under the requirements IDAPA 58.01.15.
6. All sewage removed from a portable sanitation unit must be disposed of at a location approved by the health district or DEQ through the pumper's permit application.

4.19.6 Waste Container Sewage Disposal

- ~~1. The final disposal site must be approved by the Director.~~
- ~~2. To remove sewage, suppliers of portable sanitation units must employ septic tank pumpers licensed in Idaho, unless the supplier is so licensed.~~