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flumes for measuring discharge are usually of two general groups critical flow flumes and supercritical flow flumes in this chapter the underlying design principles for each group are discussed the most commonly used flumes are described and their discharge ratings presented the series of manuals on techniques describes procedures for planning and executing specialized work in water resources investigations the material is grouped under major subject headings called books and further subdivided into sections and chapters section a of book 3 is on surface water techniques provisional drafts of chapters are for example in a 1 ft flume with h_a of 1.00 ft the discharge from table a8.12 is 4.00 ft³/s if h_b is measured to be 0.8 the submergence h_b/h_a is equal to 80 percent if figure 8.12 for h_a is 1.00 and submergence is 80 percent the correction is 0.35 ft³/s the flume length should be no more than they designed and tested a flume with a throat width of 1 foot at the floor a depth of 4 feet a two or three times the maximum expected head vertical depth at the head throat slope of 5 percent and a measurable range of discharge from

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1 to 260 ft³ s this using submergence corrections commonly results in discharge errors ranging from 7 to 20 percent and possibly much more as differences in upstream and downstream measuring heads become small tables page table 1 dimensions and capacities of all sizes of standard parshall measuring flumes 10 2 discharge table for parshall measuring flumes sizes 1 foot to 50 feet for free flow conditions 12 3 discharge rating table for various sizes of hs h and hl flumes 21 vi a7 4 discharge of 90 v notch weirs in ft 3 sec a7 5 discharge of standard cipoletti weirs in ft 3 sec shaded entries determined experimentally parshall flumes a8 7 free flow discharge through 1 inch parshall measuring flume in ft 3 sec a8 8 free flow discharge through 2 inch parshall measuring flume in ft 3 sec a8 9 choice of throat shapes allows a wide range of discharges to be measured with good precision minimal head loss needed to maintain critical flow conditions in the throat of the flume ability to make field modifications and perform computer calibrations using as built dimensions economical construction and adaptability to varying site this report discusses the general principles underlying the design of various types of flumes for measuring open channel flow four flumes are described in detail and the recommended discharge ratings for each are presented astm d 1941 91 2001 standard test method for open channel flow measurement of water with the parshall flume pp3 inc 770 664 6513 v 770 664 6565 f discharge table for 3 parshall flume level flow feet 0 75 h flume discharge table 1 0 h flume discharge table 2 0 h flume discharge table

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0 5 h flume discharge table 1 5 h flume discharge table 2 0 h flume discharge table 2 5 h flume discharge table 3 0 h flume discharge table 4 5 h flume discharge table the parshall flume is an open channel flow metering device that was developed to measure the flow of surface water and irrigation flow a fixed hydraulic structure the flume is used to measure volumetric flow rate in industrial discharges municipal sewer lines and influent effluent flows in wastewater treatment plants abstract flumes for measuring discharge are usually of two general groups critical flow flumes and supercritical flow flumes in this chapter the underlying design principles for each group are discussed the most commonly used flumes are described and their discharge ratings presented parshall flume calculator this calculator finds the flow rate through a parshall flume a parshall flume has particular dimensions it can be identified by both a section that has a contraction in the width of the flume as well as a dip in the elevation of the bottom of the flume astm d 1941 91 2007 standard test method for open channel flow measurement of water with parshall flume 9 inch parshall flume discharge table formulas h in feet cfs 3 07 h spring discharge well pumping tests mine drainage tailwater runoff discharge and submergence discharge flows from a parshall flume can either reenter the channel at the same elevation as the discharge section or free fall off the end of the flume discharge table for 48 parshall flume document par48 d t date 5 11 01 by matt kazmier source united states department of the interior bureau of reclamation water measurement

manual third edition pp a 17 a 22 770 664 6906 770 664 6565 these tables are usually made for
stilling well use or vertical gage applications the sloping gage can be marked to read direct values
or equivalent values of vertical head sometimes sloping staffs are marked to display discharge
directly but the discharge gradations are not equally spaced discharge tables 1 inch montana flume
2 inch montana flume 3 inch montana flume 6 inch montana flume 9 inch montana flume 12 inch
montana flume 18 inch montana flume 24 inch montana flume 36 inch montana flume 48 inch
montana flume 60 inch montana flume 72 inch montana flume 84 inch montana flume 96 inch
montana flume 84 inch parshall sewage 96 inch parshall flume 120 inch parshall conduit 144 inch
parshall flume flumes parshall flumes discharge tables flow graphical for parshall flumes with
equations accuracies and minimum maximum head contact

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tables page table 1 dimensions and capacities of all sizes of standard parshall measuring flumes 10 2
discharge table for parshall measuring flumes sizes 1 foot to 50 feet for free flow conditions 12 3
discharge rating table for various sizes of h_s h and h_l flumes 21 vi

appendix to the water measurement manual bureau of *reclamation*

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a7 4 discharge of 90 v notch weirs in ft 3 sec a7 5 discharge of standard cipoletti weirs in ft 3 sec
shaded entries determined experimentally parshall flumes a8 7 free flow discharge through 1 inch
parshall measuring flume in ft 3 sec a8 8 free flow discharge through 2 inch parshall measuring
flume in ft 3 sec a8 9

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choice of throat shapes allows a wide range of discharges to be measured with good precision

minimal head loss needed to maintain critical flow conditions in the throat of the flume ability to make field modifications and perform computer calibrations using as built dimensions economical construction and adaptability to varying site

use of flumes in measuring discharge at gaging stations

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this report discusses the general principles underlying the design of various types of flumes for measuring open channel flow four flumes are described in detail and the recommended discharge ratings for each are presented

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flow feet

h flumes flow accuracy measurement tracom

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0 75 h flume discharge table 1 0 h flume discharge table 2 0 h flume discharge table 0 5 h flume discharge table 1 5 h flume discharge table 2 0 h flume discharge table 2 5 h flume discharge table 3 0 h flume discharge table 4 5 h flume discharge table

parshall flume wikipedia

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the parshall flume is an open channel flow metering device that was developed to measure the flow of surface water and irrigation flow a fixed hydraulic structure the flume is used to measure volumetric flow rate in industrial discharges municipal sewer lines and influent effluent flows in wastewater treatment plants

use of flumes in measuring discharge

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abstract flumes for measuring discharge are usually of two general groups critical flow flumes and supercritical flow flumes in this chapter the underlying design principles for each group are discussed the most commonly used flumes are described and their discharge ratings presented

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9 inch parshall flume discharge table openchannel flow dev

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astm d 1941 91 2007 standard test method for open channel flow measurement of water with
parshall flume 9 inch parshall flume discharge table formulas h in feet cfs $3.07 h^3$

openchannel flow flumes parshall flumes by openchannel flow

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spring discharge well pumping tests mine drainage tailwater runoff discharge and submergence
discharge flows from a parshall flume can either reenter the channel at the same elevation as the
discharge section or free fall off the end of the flume

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these tables are usually made for stilling well use or vertical gage applications the sloping gage can
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flow tables for montana flumes open channel flow

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discharge tables 1 inch montana flume 2 inch montana flume 3 inch montana flume 6 inch
montana flume 9 inch montana flume 12 inch montana flume 18 inch montana flume 24 inch
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flow tables for parshall flumes open channel flow

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