



Estimating daily manure generated

This worksheet and its lookup charts are provided for those producers estimating daily manure excreted to complete calculations needed for the San Francisco Bay Regional Water Quality Control Board’s Waste Management Plan (WMP) associated with the CAF General WDR Order No. R2-2016-0031 for Existing Cow Dairies

https://www.waterboards.ca.gov/rwqcb2/water_issues/programs/agriculture/CAF/CAF_General_WDRs_Order_R2-2016-0031_FINAL.pdf

Category	Number of animals	Manure excretion (lbs/hd/day)	Total manure excretion (lbs/day)
Heifers	x	=	
Dry cows	x	=	
Lactating cows	x	=	
	Total manure produced (lbs/day)		

Lookup charts

Heifers

----- Replacement Heifer Average Body Weight (lbs/hd) -----											
250	300	350	400	450	500	600	700	800	900	1000	1100
----- Manure production (lbs/hd/day) -----											
44	45	45	46	47	48	50	52	54	55	57	59
----- Annual tons of manure produced PER REPLACEMENT HEIFER based on body weight -----											
8.0	8.1	8.3	8.5	8.6	8.8	9.1	9.5	9.8	10.1	10.4	10.8

Lookup charts (continued)

Dry cows

-----Dry Cow Average Body Weight (lbs/hd) -----											
900	950	1000	1050	1100	1200	1300	1400	1450	1500	1550	1600
-----Manure production (lbs/hd/day) -----											
68	69	70	71	72	74	77	79	80	81	82	83
-----Annual tons of manure produced PER DRY COW based on body weight-----											
12.4	12.6	12.8	13.0	13.2	13.6	14.0	14.4	14.6	14.8	15.0	15.2

Lactating cows

-----Milk production (lbs/hd/day) -----											
25	30	35	40	45	50	55	60	65	70	75	80
-----Manure production (lbs/hd/day) -----											
111	114	118	121	124	127	131	134	137	140	144	147
-----Annual tons of manure produced PER LACTATING COW based on milk production-----											
20.3	20.9	21.5	22.1	22.7	23.3	23.8	24.4	25.0	25.6	26.2	26.8