

North Carolina Office of State Fire Marshal
HYDRANT FLOW DATA SUMMARY

City Smithfield And Smithfield Rural Fd

NORTH
CAROLINA
State (32)

Witnessed by: North Carolina Office of State Fire Marshal

County North Carolina(Johnston),

Date: Jan 17, 2018

TEST NO.	TYPE DIST.*	TEST LOCATION	SERVICE	FLOW - GPM $Q=(29.83(C(d^2)p^{0.5}))$			PRESSURE PSI		FLOW -AT 20 PSI		REMARKS***	MODEL TYPE	
				INDIVIDUAL HYDRANTS	TOTAL	STATIC	RESID.	NEEDED **	AVAIL.				
1.0		S Brightleaf Dr & S Holding Street	Town of Smithfield, Main System	670	0	0	670	62	12	7000	600		
1.1		S Brightleaf Dr & S Holding Street	Town of Smithfield, Main System	670	0	0	670	62	12	1750	600		
10		W. Davis St and Vermont St	Town of Smithfield, Main System	580	0	0	580	62	10	1500	500		
11		2769 Highway 210	Johnston County Public Utilities, 492 Johnston East	890	0	0	890	60	44	1500	1500		
12		Hwy 70 at Yelverton Dr	Johnston County Public Utilities, 492 Johnston East	820	0	0	820	56	34	2000	1100		
13		Whitley Farm Road and Brogden Road	Town of Smithfield, Main System	920	0	0	920	62	48	750	1700		
14		Wilson Mills Road at Sunrise Ave	Town of Smithfield, Main System	580	0	0	580	46	38	2250	1100		
15		British Ct and Master Ave	Town of Smithfield, Main System	410	0	0	410	62	12	500	350		
16		Baker St and Hood St	Town of Smithfield, Main System	530	0	0	530	62	10	500	450		
2.0		S. Brightleaf Dr at the Packing Plant	Town of Smithfield, Main System	410	0	0	410	52	32	6000	550		
2.1		S. Brightleaf Dr at the Packing Plant	Town of Smithfield, Main System	410	0	0	410	52	32	3000	550		
3.0		3475 S Brightleaf Dr	Town of Smithfield, Main System	410	0	0	410	72	40	6500	550	(A)-(6000.0 gpm)	
4.0		3411 Steven Sausage Road	Johnston County Public Utilities, 492 Johnston East	920	0	0	920	70	46	6000	1400	(A)-(4500.0 gpm)(D)-(3606 gpm)	
4.1		3411 Steven Sausage Road	Johnston County Public Utilities, 492 Johnston East	920	0	0	920	70	46	3500	1400		
5.0		202 S. 4th Street	Town of Smithfield, Main System	480	0	0	480	60	16	4500	450		
5.1		202 S. 4th Street	Johnston County Public Utilities, 492 Johnston East	480	0	0	480	60	16	1750	450		

THE ABOVE LISTED NEEDED FIRE FLOWS ARE FOR PROPERTY INSURANCE PREMIUM CALCULATIONS ONLY AND ARE NOT INTENDED TO PREDICT THE MAXIMUM AMOUNT OF WATER REQUIRED FOR A LARGE SCALE FIRE CONDITION.

THE AVAILABLE FLOWS ONLY INDICATE THE CONDITIONS THAT EXISTED AT THE TIME AND AT THE LOCATION WHERE TESTS WERE WITNESSED.

*Comm = Commercial; Res = Residential.

**Needed is the rate of flow for a specific duration for a full credit condition. Needed Fire Flows greater than 3,500 gpm are not considered in determining the classification of the city when using the Fire Suppression Rating Schedule.

*** (A)-Limited by available hydrants to gpm shown. Available facilities limit flow to gpm shown plus consumption for the needed duration of (B)-2 hours, (C)-3 hours or (D)-4 hours.