



Current Report

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FORAGE PRODUCTION FROM SMALL GRAIN, 1986

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Forage production from small grain during the winter months is very important and essential for the livestock industry in Oklahoma. Cattle gains of 1½ to 1½ pounds per day are easily obtained during the fall, winter, and spring months on small grain pasture. However, good gains are produced during January and February only if forage is available. Very little new growth is produced at this time and one must stockpile sufficient fall growth to carry the cattle through these winter months.

The yields in this report simulate a system where small grains are used for pasture. Cuttings at each location continued until there was no longer any regrowth. Forage yields would probably be lower under grazing conditions.

Table 1. Precipitation for each location from August, 1985 through May, 1986.

Month	Locations				
	Goodwell*	Haskell	Lahoma	Mangum	Perkins
----- inches -----					
<u>1985</u>					
August	1.01	1.51	5.60	1.54	2.54
September	7.27	2.61	0.00	4.03	5.53
October	2.88	10.44	2.80	5.05	4.54
November	0.38	4.22	2.74	1.79	4.25
December	0.00	1.50	0.00	0.31	0.58
<u>1986</u>					
January	0.00	0.00	0.00	0.00	0.00
February	0.21	1.84	0.22	1.04	0.39
March	0.43	2.27	1.65	0.51	1.82
April	1.37	5.19	2.01	2.08	4.24
May	2.29	6.26	3.84	5.15	5.08
Total	15.84	35.84	18.86	21.50	28.97

* Irrigated

Table 2. HASKELL small grain variety test, forage production (lbs/acre) 1985-86 season. Taloka soil.

Variety	Harvest Dates				Total
	1-03	3-14	4-10	5-13	
<u>WHEAT</u>					
Caldwell	1418	1759	2087	198	5462
NF 126	1266	2339	1750	71	5426
Bounty 205	902	2621	1601	55	5179
Siouxland	598	2461	2031	12	5102
Quantum XH-551	601	1987	2412	45	5045
Pioneer 2165	1061	2242	1672	45	5020
Stallion	1135	2074	1628	41	4878
Payne	661	1853	2303	9	4826
Vona	505	1921	2351	34	4811
Victory	629	2190	1838	51	4708
OK 81322	718	1825	2000	61	4604
Bounty 122	661	2483	1381	50	4575
Quantum 576	869	1903	1749	29	4550
TAM W-101	705	2344	1405	61	4515
Chisholm	695	2048	1652	16	4411
HW 1035	107	1898	2112	12	4129
TAM W-105	0	1749	2323	6	4078
OK 79256	422	2097	1402	45	3966
Hawk	414	1667	1748	11	3840
Triumph 64	529	1538	1698	20	3785
Mustang	692	1544	1491	41	3768
Newton	226	1312	1655	32	3225
Wrangler	551	1272	1288	21	3132
Osage	0	838	2250	22	3110
<u>RYE</u>					
NF 73	1813	3442	990	389	6634
NF 142	1780	3340	874	501	6495
Bonel	1788	3019	1164	501	6472
NF 14	1319	2734	703	426	5182
LSD (lbs/acre)	387	487	235	102	846
CV (%)	35	17	10	72	13

Planted: September 6, 1985
Fertilizer: 68-45-60 September 6, 1985
100-0-0 January 9, 1986
60-0-0 March 25, 1986

Production is in oven dried pounds of forage per acre. Seasonal production for fall and winter grazing should be an important consideration in selecting varieties. Research has shown that eight

pounds of small grain forage produced at these clipping frequencies have been adequate to produce one pound of beef.

After several years of testing, a variety with a proven record of good or poor forage production may be dropped from the test so newer varieties can be included. This does not mean the dropped variety is no longer an acceptable forage producer. Data from previous Current Reports can be used to compare varieties for those years. Numbered varieties preceded by "OK" or "NF" are experimental varieties and seed is not currently available.

Table 3. LAHOMA small grains variety test, forage production (lbs/acre) 1985-86 season. Pond Creek silt loam.

Variety	Harvest Dates					Total
	1-31	3-05	3-28	4-26	5-22	
<u>WHEAT</u>						
NF 126	484	1244	1279	1372	854	5233
Quantum 576	22	1185	1289	1611	1085	5192
Bounty 205	25	1300	1285	1623	921	5154
Caldwell	210	940	1531	1527	874	5082
Bounty 122	0	911	1418	1677	976	4982
Stallion	23	927	1352	1520	1102	4924
TAM W-101	0	1225	1251	1469	966	4911
Siouxland	0	1110	1502	1516	716	4844
Victory	8	989	1266	1541	1013	4817
Mustang	195	1107	1285	1222	962	4771
Payne	0	705	1385	1555	960	4605
Pioneer 2165	0	1118	1358	1385	736	4597
Wrangler	280	1195	1202	1151	713	4541
Quantum XH-551	0	892	1261	1562	815	4530
Hawk	9	888	1212	1705	713	4527
Triumph 64	0	892	1291	1425	909	4517
TAM W-105	0	426	1202	1840	973	4441
Newton	0	550	1258	1588	843	4239
Vona	0	463	1250	1743	702	4158
Century	0	445	1177	1622	882	4126
Chisholm	0	823	1266	1333	668	4090
Osage	0	151	856	2080	940	4028
OK 79256	0	728	1019	1573	679	3999
HW 1035	0	214	956	1675	976	3821
<u>RYE</u>						
Bone1	1921	1802	1044	1001	1163	6931
NF 73	2276	1448	729	876	1158	6485
NF 14	2260	1366	672	856	983	6137
NF 142	1801	1456	757	904	925	5843
LSD (lbs/acre)	453	305	209	206	366	642
CV (%)	26	23	12	10	29	9

Planted: September 27, 1985
 Fertilizer: 60-0-0 September 12, 1985
 60-0-0 January 31, 1986
 60-0-0 March 7, 1986

Table 4. MANGUM small grains variety test, forage production (lbs/acre) 1985-86 season. Meno and Altus loamy fine sand.

Variety	Harvest Dates			Total
	2-19	3-10	4-09	
<u>WHEAT</u>				
Mustang	0	714	1387	2101
Chisholm	0	608	1407	2015
Caldwell	0	352	1617	1969
Vona	0	539	1414	1953
Pioneer 2165	0	724	1224	1948
Bounty 122	0	585	1298	1883
Quantum 576	0	589	1286	1875
Osage	0	404	1385	1789
Hawk	0	590	1166	1756
Triumph 64	0	522	1202	1724
Newton	0	462	1262	1724
NF 126	0	429	1219	1648
Bounty 205	0	469	1147	1616
TAM W-101	0	563	1034	1597
Victory	0	490	1099	1589
Stallion	0	417	1121	1538
Wrangler	122	454	958	1534
HW 1035	0	384	1145	1529
Quantum XH-551	0	476	1023	1499
TAM W-105	0	478	1015	1494
OK 79256	0	488	944	1432
Siouxland	0	431	967	1398
Century	0	319	1019	1338
Payne	0	384	893	1277
<u>RYE</u>				
Bone1	309	1292	1512	3113
NF 142	300	1148	1357	2805
NF 73	300	966	1382	2648
NF 14	398	1029	1103	2530
LSD (lbs/acre)		273	464	694
CV (%)		33	27	27

Planted: September 23, 1985
 Fertilizer: 13-34-45 September 20, 1985
 30-0-0 October 21, 1985

Table 5. GOODWELL small grains variety test, forage production (lbs/acre) 1985-1986 season. Richfield clay loam, irrigated.

Variety	Harvest Dates						Total
	10-25	12-06	2-26	3-19	4-02	4-30	
<u>WHEAT</u>							
Osage	1260	1069	2180	2200	1420	1422	9551
Vona	1350	1052	2399	1678	1292	1718	9489
Quantum 576	1669	1048	1658	1638	1037	1417	8467
Century	1300	807	1733	1793	1544	1180	8357
Siouxland	1788	1028	1638	1577	1221	1094	8346
TAM W-105	1106	887	1600	2006	1351	1274	8224
Hawk	1755	883	1469	1476	1164	1439	8186
HW 1035	692	1128	1386	2363	1224	1327	8120
Bounty 122	1357	1274	1580	1628	1207	905	7951
Bounty 205	2324	925	1475	1402	520	974	7620
Pioneer 2165	1670	979	1318	1535	1020	938	7460
NF 126	1654	737	1243	1114	1195	1336	7279
Mustang	2049	948	1274	1293	930	732	7226
Stallion	1668	1020	1324	1166	931	1062	7171
Triumph 64	1446	737	1336	1427	1048	1102	7096
Victory	1829	877	1153	1388	754	1066	7067
Wrangler	1386	892	1372	1546	986	848	7030
Newton	1123	923	1581	1654	922	815	7016
OK 79256	890	835	1353	1441	1062	1229	6810
TAM W-101	1597	763	1426	1243	979	759	6767
Chisholm	913	970	1174	1438	960	1027	6482
<u>RYE</u>							
Bone1	1650	694	1949	1796	823	1629	8541
NF 73	1528	842	1929	1005	687	1067	7058
NF 14	1399	653	1891	630	474	1025	6072
NF 142	1211	614	1806	724	518	991	5864
LSD (lbs/acre)	669	438	530	763	423	520	1392
CV (%)	28	30	21	31	25	28	11

Planted: September 5, 1985

Table 6. PERKINS small grain variety test,
forage production (lbs/acre) 1985-86 season.
Teller loam.

Variety	Harvest Dates			Total
	1-10	3-25	5-20	
<u>WHEAT</u>				
Bounty 205	1541	3087	3495	8123
Siouxland	1532	3130	2953	7615
NF 126	1501	2652	3280	7433
Quantum 576	1383	2576	3387	7346
Victory	1519	2455	3223	7197
Caldwell	1452	1957	3697	7106
Payne	1061	2267	3689	7017
OK 79256	1094	2365	3450	6906
Bounty 122	843	2858	3176	6877
Quantum XH-551	1055	2519	3232	6806
TAM W-101	884	2590	3196	6670
Pioneer 2165	1205	2625	2800	6630
Wrangler	1545	2175	2815	6535
OK 81322	558	2326	3578	6462
HW 1035	613	1863	3930	6406
Vona	473	2340	3547	6360
Hawk	629	2106	3505	6240
Chisholm	837	2686	2563	6086
Stallion	786	2320	2970	6076
Mustang	1217	2105	2679	6001
TAM W-105	443	1655	3755	5853
Triumph 64	693	1766	3184	5643
Newton	520	1412	3361	5293
Osage	173	951	3940	5064
<u>RYE</u>				
Bone1	2434	3854	3059	9347
NF 73	2647	3421	3244	9312
NF 142	2420	3457	2835	8712
NF 14	2276	3300	2727	8303
LSD (lbs/acre)	500	468	533	894
CV (%)	30	14	12	9

Planted: September 5, 1985

Fertilizer: 60-0-0 August 29, 1985

60-0-0 January 13, 1986

60-0-0 April 7, 1986