USDA
NRCS

KS-ENG-3
Rev. 8/05

Pond - 378 (Water Supply)

Name	Example	Ident. No.	Tract 106
Legal Desc.	NE 1/4 5-5-5	County	Clay
Designed by	T. M. Tech	Date	8/8/05
Checked by	I. W. Check	Date	8/8/05
Approved by	T. M. Tech	Date	8/8/05

Pond Capacity

Surface Area	x	Factor	x	Maximum Water Depth	=	Storage
2.0 acres	x	0.4	x	10.0 feet	=	8.0 acre-feet

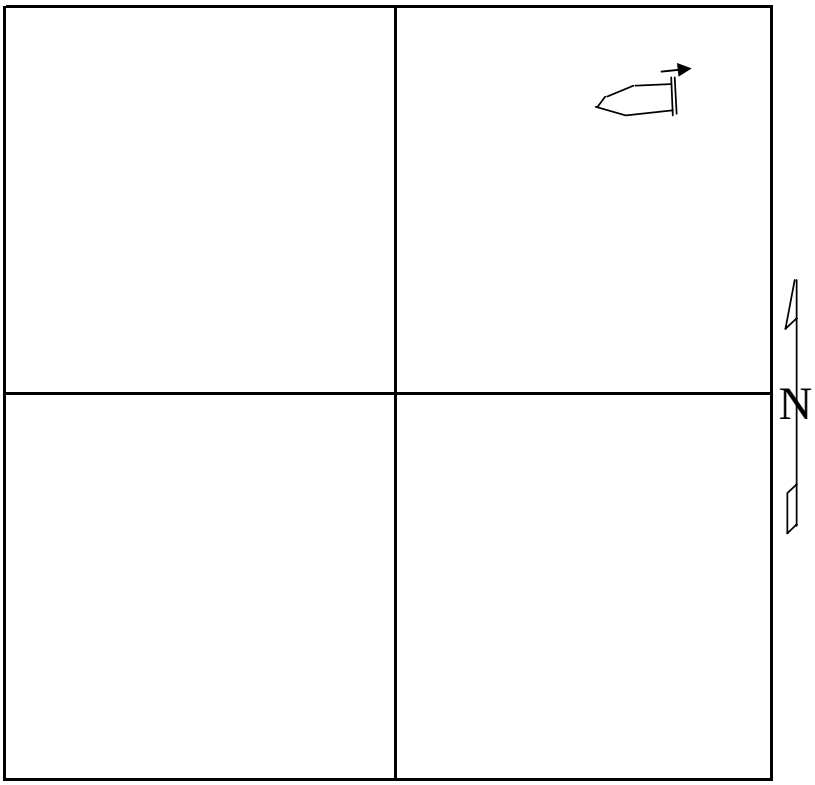
Other Method _____ = _____ acre-feet

Drainage Area 150 acres = 0.64 inches
Curve Number 75 for Antecedent Moisture Condition (AMC) II
Annual Precipitation 31.9 inches

Annual Yield of Runoff

Mean Annual Runoff	4.75	inches	59.4	acre-feet
50% Chance Runoff	2.80	inches	35.0	acre-feet
80% Chance Runoff	**0.85**	**inches**	**10.6**	**acre-feet**
90% Chance Runoff	0.42	inches	5.3	acre-feet

Check One Yes	No	Explain your selections in "Remarks"
X		The pond capacity will provide an adequate water supply for livestock.
	X	Additional documentation is attached.



Location Map Scale 1" = 1320'

Remarks

This pond was constructed in 1998 and has been a reliable source of water. The producer plans to fence the pond area to control the location where the cattle get water.