

RFP 158-17-AM PURCHASE OF RAIN GAUGES, DATA LOGGERS AND DATA TELEMETRY SYSTEM	GeoNor, Inc.	Forest Technology Systems (FTS), Ltd.
1. Commercial Quality (40 points) o Satisfactory response to terms and conditions o Experience with similar programs o Proposal quality o Customer references and satisfaction of existing customers	30	31
2. Cost Factors (40 points) o Total cost o Additional costs	15	38
3. Financial Stability (20 points) o Current financial condition	15	19
Total Points	60	88
Proposal costs: (per unit, 60 units)	\$5,384.25	\$1,945.00
Additional costs:	unknown	Cellular plan: \$102/yr
Additional comments:	Included costs on the Proposal. Rain gauge exceeds specs in RFP. Not enough details provided about the data logging and telemetry system. Not worth pursuing questions to vendor because Cost for 60 stations would be prohibitive at quoted price.	All-in-one logger and cellular telemetry. Plan allows 15-minute data transmission. Includes cloud storage and web-based interface called FTS360. Texas Electronic TR-5251 rain gauge, but could use any gauge with pulse output. Can also handle multiple SDI-12 inputs. 12 volt sytem could make use of existing solar panels. No examples of anyone using this system in central Texas. Seems to be a new system with some aspects still in development. Some risk due to unproven track record and evolving design of cloud based interface. At time of review, does not have features to easily automate access to data through export or API, though they assured that would be coming. Unit cost includes one year of data plan.

Met One Instruments	Onset Computer Corporation	Fluid Conservation Systems	Sutron Corporation	
28	33	22	40	
29	37	35	33	
19	19	18	19	
76	89	75	92	
\$2,808	\$1,423.00	\$2,381.00	\$2,825.00	
Shipping	Shipping: \$28. Cellular plan: \$150/yr for limited plan; \$300/yr for plan comparable to other vendors.	unknown	Cellular Plan: \$120/yr	
Seems to be a patched-together system using the processor card from a different product housed in a makeshift enclosure. Rain gauge meets specs for accuracy. Includes cloud services and data modem with one year plan for \$708. Not clear what the annual data plan cost is. Data reports every 15 minutes. and stored on cloud for up to 2 years. Requires a Hayes Compatible PC modem (and presumably a dedicated phone line to dial up. Operates on 12vdc so could remove need for solar panel. Includes cloud services and data modem with one year plan for \$708. Not clear what the annual recurring data plan cost is.	Cost Proposal was NOT sealed separately; Only one reference; No Electronic Copy. System meets all specs listed in RFP and we have experience with this system. Can be adapted to other applications by purchasing analog input circuit at additional cost. Can use other rain gauges if desired by purchasing pulse input adapter. A limitation is that the affordable data plan only allows transmission every 4 hours. Cost jump to \$300/year if we want to transmit every 15 minutes, which several of the other systems can do for ~\$120/yr.	Cost Proposal was NOT sealed. Logger appears to only allow a single input. Not easily adaptable to other applications. WTB100 rain gauge is tipping bucket. Claims 2% accuracy but does not say at what rate.	Sutron Corp. has proven track record in Central Texas for rainfall monitoring. Loggers and gauges used by LCRA; SARA uses the Sutron rain gauge on a different logger system. X-connect software provides easy access to data without having to go through a 3rd party cloud-based system. Loggers are highly programmable and adaptable to other applications, such as water quality monitoring. Accepts RS485 input, pulse input, and up to 5 analog inputs. Sutron rain gauge exceeds specs in RFP. Vendor offers free training and 10 years tech support. Data plan allows data transmission as frequently as every 5 minutes. Unit cost can be reduced by using our existing solar panels and enclosures.	