

LMAC - Weather Station and Camera System Preliminary Budget

	Mar-16		Mar-21	
	Capital	Ongoing pa	Capital	Ongoing pa
Computer. Suggest a Lenovo 100S. It has a 11.6" screen. Raspberry Pi "Zero" W (wireless) incl, 8mpx camera, 16GB micro SD card 512mb RAM Raspberry Pi Camera box & Waterproof box	Lenovo 100S-11BY IdeaPad \$244		Core Electronics \$98 Core Electronics \$85	
Internet. Telstra Pre paid wireless dongle. Telstra 4GX 365 day expiry 40GB	\$99	\$70	\$47	150
Weather Station. Fine Offset WH3081 Fine Offset WH2900 WiFi	Ebay \$140 Ebay		\$179	
12V Laptop Power source. Ex China - http://www.ebay.com/itm/Genuine-OEM-DC-Car-Charger-Adapter-Lenovo-IBM-ThinkPad-X200-X201-X220-Tablet-90W-/221298563367 Ex USA - http://www.ebay.com/itm/Laptop-Car-Charger-for-Lenovo-IdeaPad-Yoga-13-2-Pro-11-11S-Power-Supply-Cord-DC-/231245844815	eBay \$50		Replaced with Step Down Converter	
Geekcreit® 5A XL4005 DC-DC Adjustable Step Down Module Power Supply Converter (\$US9.73) x 1 (required for Rpi and weather monitor screen)	Banggood		\$11	
USB micro adapter for power from 12v to Raspberry & Monitor (5v)	Officeworks		\$13	
Timers. Timer to switch laptop on and off.	Altronics \$60		Not required	
Camera. Waterproof Outdoor	eBay \$70		Included in Raspberry Pi	
Router. Netgear N300 WNR2000	Officeworks \$69		RaspberryPi creates it's own network	
Programs Required Cumulus - Weather Station and transmitting of info to the web.	Sandaysoft Free		Using "Go" program	
Yawcam - Takes a photo every 5 minutes and stores them on the Hard Drive.	YawCam Free		Not required	
System Scheduler - Schedules for turning the right program in the correct sequence.			Not required	
Team Viewer - to control the computer from a remote location. (As long as Internet is available.)	TeamViewer Free		Not required	
WordPress Plugin (for new website)	React Webcam Free		"Weather Station" free plugin	
Contingencies - Freight, miscellaneous equipment etc.	\$30		\$30	
Estimated Cost	\$762	\$70	\$462	\$150