

READING & MONITORING THE LANDSCAPE

LEVEL 1 BACKGROUND INFORMATION

(Update only if necessary)

STATION _____

DATE _____

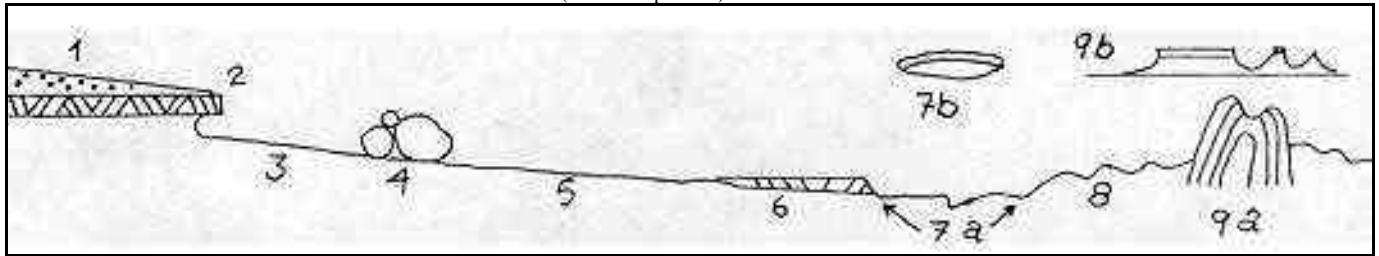
SITE NO:/NAME		PADDOCK	LAND SYSTEM		
NEAREST WATERING POINT	KM	WATERING POINT NAME	PHOTO	DATE	NO
			GROUND		
			AIR		

SPECIFIC MANAGEMENT ISSUES (Reasons for monitoring this area)

MANAGEMENT HISTORY

PROFILE OF PREVALENT LANDSCAPE CATENA SEQUENCE IN THE GASCOYNE-MURCHISON REGION

(Circle site position)



1. OLD PLATEAU SURFACE Red sand over laterite duricrust. (Run-in)	2. LATERITE BREAKAWAY Scarp retreat & exposure of saline kaolin (Run-in, -off)	3. UPPER STRIPPED WASHSLOPE Saline duplex soil over hardpan. Shallow brittle topsoil (Run-off, -through)	4. GRANITE OUTCROP Domes, tors, ridges, hills (Run-in, -off)	5. MIDSLOPE WASHPLAINS "hardpan plains" "hard mulga country" (Run-on, -off, -through)
6. LOWER SLOPE SAND DEPOSITION Wanderrie banks, (Run-on, -in, -off, -through)	7. BOTTOMLANDS		8. UNDULATING TERRAIN eg. Calcrete country, rolling plains, low rises (Run -in, -off, -through)	9. RIDGES & RANGES (a) FOLD RANGES Rocky outcrops of tilted strata (b) TABLELAND RESIDUALS of Horizontal strata (all Run -in, -off)
	(a) CREEK, FLOODPLAIN & BILLABONGS (Run-on, -in, -off, -through)	(b) CLAYPAN OR SALT LAKE (Run-on)		

LAND SURFACE/SOIL TYPE & COLOUR (Tick)

ROCK TYPE	Laterite Duricrust	Banded Ironstone	Granite Gneiss	Basalt Dolerite Gabbro	Sandstone Quartzite	Shale Siltstone Mudstone	Silica Hardpan	Calcrete Limestone Dolomite
SOIL SURFACE	Stony	Gravelly	Earthy Loam	Sandy	Silty	Clayey	Litter cover	Bare Algal Mat
SOIL PROFILE	Uniform (same throughout)		Gradational (increasing texture with depth)		Duplex (texture contrast between top & subsoil)		Crabhole Cracking Clays	

EMU Monitoring Form
ANNUAL MONITORING REVIEW (LEVEL 1)

SITE NO	PADDOCK				UPDATED PHOTO	DATE	NO
SEASONAL CONDITION	EXCELLENT	VERY GOOD	GOOD		AIR		
	AVERAGE	BELOW AVERAGE	DROUGHT				
RAINFALL	J.F.M	A.M.J.	J.A.S	O.N.D	STOCK HISTORY THIS YEAR		
Quarterly amounts:							
Total mm							
COMMENTS							

LANDSCAPE PROCESSES

Water in the Landscape (recharge & erosion or deposition)

Is the landscape trapping water effectively						YES	NO
Is there active soil erosion or siltation (sanding –up)?						YES	NO
What kind of erosion?		Sheet/wash	Gullying	Pedestalling/mounding			
What proportion of the sample area is unstable						%	
Is the unstable area	Contracting?	Stabilized?	Expanding?	Incising?			
In the bare areas is the soil covered by an algal crust and / or stone pavement (gibber)?						YES	NO
Other Impacts/Influences	Wind erosion	Fire	Hail	Frosted vegetation			

VEGETATION:

Layering of Vegetation (tick one or more)

<input type="checkbox"/> Top Layer	<input type="checkbox"/> Middle Layer	<input type="checkbox"/> Lower Layer	<input type="checkbox"/> Ground Layer
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Bush Clumps Beneath Trees and Large Shrubs

<input type="checkbox"/> None	<input type="checkbox"/> Few	<input type="checkbox"/> Many
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Is There Effective Recruitment Of The Key Plants (insert plant's name)

Flowering	Fruiting/Seed Set	Recent recruits	Recently dead or dying

Plant Kind &/Or Cover Change Plus Browsing & Grazing Influences

Is the overall perennial plant cover			Increasing	Stable	Decreasing	
If increasing, does this involve mainly undesirable plants? E.g. needle-bush, camel thorn					YES	NO
Name undesirable plants						
Why undesirable?	Taking over good pasture	Unpalatable	Toxic	Burrs	Other	
If increasing, do the invading scrub or weed plants have useful fodder plants growing beneath them?					YES	NO
Name plants growing beneath:						
Do the trees & large shrubs have an upper feeding reach browse line?			YES	NO	PART OF	THROUGH OUT
What is forming this browse line?			Sheep	Goats	Cattle	Camels
To what degree are the lower & ground layer plants eaten?			V. heavy	Heavy	Medium	Light
To what degree are the bush clump plants browsed			V. heavy	Heavy	Medium	Light

CONCLUSION:

Comparison With Previous Years Monitoring Record

Is the area?	<input type="checkbox"/> Improved	<input type="checkbox"/> The same	<input type="checkbox"/> Deteriorated
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EMU Monitoring Form
PHOTO RECORD

GROUND VIEW OF AREA (TAKEN FROM TOP OF VEHICLE)

PHOTO NO.	DATE	NOTES

AIR VIEW OF AREA (300 – 500 feet above ground level)

PHOTO NO.	DATE	NOTES