

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP348 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Rossgole.
<b>Date Desc.:</b>	04/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9033 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	150.73333333	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.15194444	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Plateau
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Summit surface	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	360 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Black Vertosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A11	0 - 0.15 m	Black (10YR2/1-Dry); ; Light clay; Strong consistence; Common, medium (2-5mm) roots; Clear, Smooth change to -
B21	0.15 - 0.4 m	Black (10YR2/1-Moist); ; Light medium clay; Firm consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Common, medium (2-5mm) roots; Gradual, Smooth change to -
B22	0.4 - 0.6 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Very firm consistence; Few, very fine (0-1mm) roots; Gradual, Irregular change to -
BC	0.6 - 1 m	Weak red (2.5YR5/2-Moist); , 2.5Y32, 10-20% , 5-15mm, Distinct; Light clay; Strong consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Few, very fine (0-1mm)

**Morphological Notes**

B21	In two replicates.
BC	Distinct paler mottles, possibly carbonate?

**Observation Notes**

**Site Notes**

Frank Bragg. Pasture, superphosphated 3-4 years ago. Rossgole land system. Basalt terrain.

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[illegible]

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**Laboratory Analyses Completed for this profile**

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9B1	Bicarbonate-extractable phosphorus - manual colour