

WP No. WP5.3	WP Leader Ian Cluckie
WP Title Wetland Land Use Management	
Description of data generated with FRMRC funding (web link will be inserted for each data set if appropriate) <ul style="list-style-type: none"> • IfSAR DTM data: covering the Parrett Catchment gained through the Parrett Catchment Project(PCP) sponsored by PCP and EA Bridgwater office. • Soil data: 1km resolution soil data in raster format including soil physical features, land use type and etc from NSRI (National Soil Research Institute). • Catchment boundary: generated using IfSAR DTM data and Ordnance Survey digital data including contour, height points and river stream. The boundary is different from the EA one as it is generated considering topography. The boundary maps are separately created for the Parrett's boundary and sub-catchment boundary. • Thiessen Polygon: generated for daily and hourly rainguages separately in shape file format. • Potential Evapotranspiration (PE): PE was gained from MORECs (1999 ~ 2002) and NIMROD MOSES (2006 and 2007). • LAI (Leaf Area Index): calculated referred to the growing cycle used in MOREC and MOSES. 	
Supporting data sets owned by others Web links or contact details to be inserted to allow others to seek permission to access third party data sets. <ul style="list-style-type: none"> • EA's catchment boundary • Surveyed River Cross Sections: gained from the EA Bridgwater office for the lower part of the River Tone and the River Parrett and Somerset Drainage Board Consortium (SDBC) for main drainage ditches/Rhynes in West Sedgemoor. All the cross sections are merged into MIKE 11. • EA's groundwater level records (monthly) <u>Gauge Name, Data period, Frequency, Reference</u> Milverton New, 1985 - present, Monthly, ST 110 270 Lydeards Hill, 1992 - present, Monthly, ST 181 338 Overcompton, 1971 - present, Four hourly logger, ST 591 169 Silverlake, 1976 - present, Monthly, ST 615 154 Court House dairy, 1976 - present, Monthly, ST 623 144 • RSPB's daily rainfall measurements (West Sedgemoor) • EA's 15 min rainfall records (Parrett Catchment): <u>Gauge Name - Reference, X, Y</u> Rivers House - ST278379 - 327800, 137900 Somerton - ST487295 - 348700, 129500 Maudown - ST065291 - 306500, 129100 Fulwood - ST2111978 - 321110, 119780 West Sedgemoor- ST376286 - 337600, 128600 • EA's daily rainfall records (Parrett Catchment, 22 gauges): Stolford Gauge, Brymore gauge, Spaxton gauge, Lower Meridge Gauge, Durleigh gauge, Bridgwater – Ivy House gauge, Westonzoyland gauge, Middle Zoy gauge, Charity Fram Bere gauge, Somerton gauge, Langport –Whatley gauge, Ham gauges, Wrantage gauge, West Lambrook gauge, Puckington gauge, Seavington gauge, Bagborough Gauge, Wiveliscombe gauges, Creech Hamthflect gauge, West Newton Farm gauge, Bridgehampton gauges, and Castleton gauge (*mostly recorded 1961 ~ 2002) • NIMROD 15 min rainfall records (Somerset Areas, 2004 ~ 2007) • BADC's hourly rainfall records (Somerset Areas): Yeovilton gauge and Dunkswell gauge 	

- **BADC's daily rainfall records (Somerset Areas, 47 gauges):**

<u>SRC Id,</u>	<u>X,</u>	<u>Y</u>
8066,	337100,	108500
8224,	302100,	122900
1382,	313810,	112890
8264,	303400,	114400
9055,	308540,	140330
1291,	305629,	137699
9084,	346359,	110972
9086,	351100,	111478
9092,	339598,	116117
9095,	341566,	119086
9108,	337641,	118239
9115,	333291,	121415
9120,	342869,	123541
9121,	342284,	124809
9148,	357461,	106000
9168,	352120,	122765
9171,	341982,	126610
9174,	330845,	122721
9184,	302698,	122198
9192,	306476,	129144
9214,	316420,	132588
9233,	328677,	129169
9235,	333340,	128891
9238,	337110,	132715
9242,	322230,	132046
9254,	330122,	137803
9255,	327793,	137932
9263,	356180,	128849
9264,	356673,	125711
9268,	349268,	128372
9274,	341463,	132088
9280,	335500,	135500
9313,	336030,	140250
9326,	364900,	138800
9327,	360500,	136300
9329,	351700,	132100
19274,	355100,	136200
25057,	346841,	125355
1292,	324470,	139430
25051,	314300,	141700
6991,	337900,	126300
6981,	337600,	128600
9268,	347500,	128600
9146,	355600,	111400
9219,	321200,	119730
1302,	355100,	123200
1307,	364600,	116600

(*Records used 1999 ~ 2007, gauges duplicated with EA' gauges are used EA's measurements)

- **EA's daily mean and 15 min water flow data (Parrett Catchment):**

Gauge Name - Reference, X, Y, Data period

Chiselborough - 52031, 346100, 114400, 1999 ~ 2002, 2004 ~ 2007

Pen Mill - 52024, 357300, 116100, 1999 ~ 2002, 2004 ~ 2007

Ashford Mill - 52011, 336100, 118800, 1999 ~ 2002, 2004 ~ 2007

Greenham - 52054, 307800, 120200, 1999 ~ 2002, 2004 ~ 2007

Helland - 52041, 333200, 124300, 1999 ~ 2002, 2004 ~ 2007

Bishops Hull - 52056, 320600, 125000, 1999 ~ 2002, 2004 ~ 2007

Halsewater - 52058, 320600, 125300, 1999 ~ 2002, 2004 ~ 2007

Somerton - 52081, 349800, 129100, 1999 ~ 2002, 2004 ~ 2007

Knapp Bridge - 52059, 330220, 126100, 1999 ~ 2002

New Bridge - 52000, 33164, 12690, 1999 ~ 2002

Taunton Market - 520575, 322906, 125096, 2006 ~ 2007

- **SDBC's GIS data: drainage ditches/rhynes (West Sedgemoor)**
- **Copy of ISIS model for the River Tone from EA and West Sedgemoor from SDBC**

Data mentioned above are able to ask permission to EA Bridgwater office and SDBC.

None of data are available online.

Barriers to making data freely available after project.

- None of the data sets is free to use after project as data were authorised for only FRMRC and not permitted to give third part when gained.
- However, measurement data – rainfall and river flow – are possible to gain from the EA Bridgwater office and SDBC possessed data would be possible to get through contact.
- Soil data and PE data are not available unless pay for use.