

Sport England's Facilities Planning Model (FPM)

Synthetic Turf Pitch (STP) Provision in Stockton Council Area

2010 Profile Report

This paper and the accompanying maps present data from Sport England's National Facilities Audit Dataset as of January 2010. The information contained within the paper should be read alongside the two appendices. Appendix 1 sets out the facilities that have been included within this analysis together with those that have been excluded. Appendix 2 details existing sites that have not been included in the modelling exercise, and sets out some of the parameters.

As presented in Appendix 2 the FPM modelling and dataset builds in a number of assumptions regarding the supply and demand of provision. It is therefore recommended that the information contained within this paper should form part of a wider assessment of provision at the local level.

The paper is set out into the following seven sections:

1. **Supply of STPs**
2. **Demand for STPs**
3. **Supply & Demand Balance**
4. **Satisfied Demand**
5. **Unmet Demand**
6. **Used Capacity**
7. **Personal/Relative Share**

The paper is also accompanied by three maps:

- Map 1. Unmet Demand**
- Map 2. Aggregated Unmet Demand**
- Map 3. Personal/Relative Share**

1. Supply of STPs

Number of pitches	6
Number of pitch sites	6
Supply of total pitches in pitches	6
Supply of publicly available pitch space in pitches (scaled with hrs avail in pp)	4.65
Supply of total pitch space in VPWPP	3440
Pitches per 1000	0.31

Commentary:

- There are six STPs within. The six are located across six separate sites (SRC Sports Centre, Conyers School, Eggescliffe School, Northfield Sports Drome, Norton Sports Complex, and St. Patrick’s RC Comp).
- All of the pitches are floodlit. The pitches at SRC and Conyers are 3G surface, while the remainder are sand based. Only the pitches at Northfield and Norton meet the required dimensions for competitive hockey - the required size for a hockey pitch is 101.4m m 63m (inclusive of run-off). Notwithstanding this, Stockton and Wilton Hockey Clubs use the pitches at Eggescliffe and St. Patrick’s (respectively) as their home grounds.
- The six STPs provide a supply of 3,440 visits per week in the peak period.
- Stockton has 0.31 STPs available per 1000 population

2. Demand for STPs

Population	194,710
Visits demanded –vpwpp	4529
Equivalent in pitches	6.12
% of population without access to a car	22.1

Commentary:

- The population of Stockton Borough is 194,710
- The demand for STP’s in 2,009 visits per week in the peak period. This compare to a current level of supply of 4,529 vpwpp, as mentioned above.
- Such a level of demand would require 6.12 STPs operating at full capacity across all of the notional peak periods.

3. Supply/Demand Balance

Supply - pitch provision (pitches) scaled to take account of hours available for community use	4.65
Demand - Pitch provision (pitches)	6.12
Supply / Demand balance - Variation in pitches of provision available compared to the minimum required to meet demand.	-1.47

Commentary:

- **Note:** This section only provides a 'global' view of provision and does not take account of the location of facilities in relation to demand; how accessible facilities are to the resident population (by car and on foot); nor does it take account of facilities in adjoining boroughs. These are covered in the more detailed modelling set out in the following sections (Satisfied Demand, Unmet Demand and Relative Share).
- When looking at a very simplistic picture of the overall supply and demand across Stockton the resident population is estimated to generate a demand for a minimum of 6.12 synthetic pitches. This compares to a current available supply of 4.65 pitches, giving a supply/demand balance of -1.47 pitches.
- As mentioned above, this figure does not include a number of important factors including the spatial interaction between the location of supply and demand, as well as the nature and quality of the provision. These factors are built into the figures presented within sections 4 to 7 of this report.

4. Satisfied Demand

Total number of visits which are met	3,230
% of total demand satisfied	71.6
% of demand satisfied who travelled by car	83.3
% of demand satisfied who travelled by foot	14.7
% of demand satisfied who travelled by public transport	2
Demand Retained	2353
Demand Retained -as a % of Satisfied Demand	72.8
Demand Exported	877
Demand Exported -as a % of Satisfied Demand	27.1

Commentary:

- The level of satisfied demand for pitches in Stockton is 3,230 visits, which is 71.6% of the total demand in the Borough.

- This level of satisfied demand is higher than the regional average (70.1%), but lower than the national average (72.3%). Within the Tees Valley, Hartlepool and Middlesbrough have higher levels of satisfied demand (76.7% and 72% respectively), while Darlington and Redcar/Cleveland have lower levels (67.9% and 54.3%)
- 83.3% of the satisfied demand is met by people who travel to STPs by car.
- 14.7% of the satisfied demand is met by people who travel by foot.
- 2% of the satisfied demand is met by people who travel by public transport.
- Approximately 2353 visits are met by STPs within Stockton, whilst 877 visits are met by SPTs outside of the Borough. The amount of demand retained (as a percentage of overall satisfied demand) is 72.8%

5. Unmet Demand

Total number of visits in the peak, not currently being met	1,298
Unmet demand as a % of total demand	28.7
Equivalent in pitches	1.75
% of Unmet Demand due to:	
Lack of Capacity -	91
Outside Catchment -	9
Outside Catchment;	9
% Unmet demand who do not have access to a car	5.1
% of Unmet demand who have access to a car	3.9
Lack of Capacity;	91
% Unmet demand who do not have access to a car	24.2
% of Unmet demand who have access to a car	66.8

Commentary:

- The level of unmet demand for the usage of STPs in Stockton is approximately 1,298 visits per week in the peak period
- This amount of unmet demand equates to 1.75 pitches.
- This is the second highest need for additional pitches, behind Redcar/Cleveland where unmet demand equates to 1.91 pitches.
- There are generally two reasons that demand is not met; firstly the local pitch might not have any spare capacity across the hours it is open in the peak periods, or, secondly there might not be an available pitch within reasonable travelling distance

- In Stockton's case 91% of unmet demand is down to lack of available capacity, and only 9% is because there is no locally accessible pitch. This is higher than both the national figure (88%) and the regional average (83%)
- While levels of car ownership are higher in Stockton than the regional average, they are still below the national. As such unmet demand is usually more sensitive to the distribution of facilities.
- It can however still be seen that where lack of capacity was the reason for unmet demand, this was in spite of the majority of those people having access to a car (and therefore able to reach a wider range of STP provision)
- The Plans which accompany this report show the spatial distribution of unmet demand across Stockton, and identify concentrations of aggregate unmet demand.
- It can be seen from the map that unmet demand is most noticeable in an arc around inner central Stockton / north Thornaby.
- Aggregate unmet demand (which looks at the prime locations to address unmet demand) shows that the best location for new provision would be inner central Stockton, and between Stockton and Middlesbrough

6. Used Capacity

Total number of visits used of current capacity	3440
% of overall capacity of pitches used	100
% of visits made to pitches by walkers	13.7
% of visits made to pitches by road	86.3
Visits Imported:	
Number of visits imported	1087
As a % of used capacity	31.6
Visits Retained:	
Number of visits retained	2353
As a % of used capacity	68.4

Commentary:

- Stockton’s STPs offer a capacity across the peak periods capable of accommodating 3440 visits
- Each of Stockton’s six pitches is used to full capacity across the hours they offer in the peak periods.
- There are 34 hours a week that are classed as the notional peak period (NPP). Of Stockton’s 6 STPs only Norton is available for use for all peak period hours.
- St Patrick’s STP is only available for 13 hrs (38%) of the NPP, Conyers and Egglecliffe School 25 hrs (74%), Northfield 29hrs (85%), and SRC 29.5 hrs (87%).
- Where planning constraints do not exist, increasing the hours available during the NPP at these sites would increase peak period capacity across Stockton which might render the need for additional pitches unnecessary.
- 86.3 % of people using Stockton’s STPs arrive by car, with the remaining 13.7% arriving on foot. This directly mirrors national averages.

7. Relative Share

Table 7 - Relative Share	ENGLAND TOTAL	NORTH EAST REGION	Stockton-on-Tees UA
Score - with 100 = national share	100	93	89
+/- from National share	0	-7	-11

Commentary:

- This planning tool is similar to the 'facilities per 10,000 population', but also factors in facility capacity and travel modes to give a comparative estimate of provision in an equity way i.e. how much share of facilities people have in comparison to each other.
- The figure is always given as a comparison to the national average, which is calculated at 100%
- The data shows that Stockton's residents have a poor relative of STP provision compared to both the national and regional average.
- The attached map shows the geography of relative share in Stockton. It can be seen that the northern and southern extremities of the Stockton conurbation (ie Yarm/Eaglescliffe in the south, and Billingham to the north) have a better than average share of STP access, while Stockton and Thornaby have a poorer than average share of access.

Appendix 1: STPs Included

Facilities Included:

Site	Type	Size	Pitches	Built		Public or Commercial	Hrs in NPP	Community Hours	Capacity VPWPP
SRC SPORTS CENTRE	3GFloodlit	100 x 60	1	2009		P	29.5	46.5	640
CONYERS SCHOOL	3GFloodlit	100 x 65	1	2003		P	25	27	540
EGGLESCLIFFE SCHOOL	SANDFloodlit	100 x 60	1	2004		P	25	27	540
NORTHFIELD SPORTSDROME	SANDFloodlit	110 x 72	1	2004		P	29	34	590
NORTON TEESIDE SPORTS COMPLEX	SANDFloodlit	102 x 63	1	1995		P	34	87	740
ST PATRICKS RC COMPREHENSIVE SCHOOL	SANDFloodlit	100 x 60	1	2004		P	13	15	390

Appendix 2: STPs Excluded

- University of Durham Queen Margaret Campus – STP below threshold size
- Soccer Sensations, Preston Farm Business Park – below threshold size.
- Tilery Centre, Stockton – facility closed

Parameters

A pitch is used for football or hockey according to the following rule

FOOTBALL	SAND	WKDYHOURS
	3G	WKDYHOURS+WKENDHOURS
HOCKEY	SAND	WKENDHOURS
	WATER	WKDYHOURS+WKENDHOURS

The peak hours for floodlit pitches are

STPS	PEAK PERIOD	FROM1	TO1
	WEEKDAY	4	17 21
	FRI	2	17 19
	SAT	8	9 17
	SUN	8	9 17
		34	

In addition to this NON-FLOODLIT pitches are now included, but they cannot be used after 5pm

The peak hours for non-floodlit pitches are

STPS	PEAK PERIOD	FROM1	TO1
	WEEKDAY	0	
	FRI	0	
	SAT	8	9 17
	SUN	8	9 17
		16	